

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
HUNTER, HUNTER 9-32 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 Base	4/11/2022	0	1.1	NS	NO	40.35574231	-104.9101468	N
AST01 Hatch	4/11/2022	NA	2.1	NS	NO	40.35574852	-104.9101267	N
AST01 Drainline	4/11/2022	NA	174.5	Stain	Odor	40.35575332	-104.9101306	N
AST01@6"-WP	4/11/2022	0.5	642.1	Stain	Odor	40.35573305	-104.9101637	Y
AST01-N01@5'	6/6/2022	5	0.0	NS	NO	40.35575844	-104.9101674	Y
AST01-E01@5'	6/6/2022	5	1.1	NS	NO	40.3557665	-104.9101143	Y
AST01-S01@5'	6/6/2022	5	2.5	NS	NO	40.3557232	-104.9101357	Y
AST01-W01@5'	6/6/2022	5	2.6	NS	NO	40.35571693	-104.9101903	Y
AST01-B01@6'	6/6/2022	6	0.0	NS	NO	40.35574019	-104.9101504	Y
PRODUCED WATER VESSEL SAMPLES								
PWV-B01@4'	4/11/2022	4	0.8	NS	NO	40.35570963	-104.9101096	Y
PWV-N01@2'-WP	4/11/2022	2	1.3	NS	NO	40.35572698	-104.9100826	Y
PWV E Wall	4/11/2022	2	1.0	NS	NO	40.35569271	-104.9100918	N
PWV S Wall	4/11/2022	2	0.7	NS	NO	40.35569142	-104.9101363	N
PWV W Wall	4/11/2022	2	1.0	NS	NO	40.35572707	-104.9101259	N
PWV North Dumpline	4/11/2022	NA	0.4	NS	NO	40.3557349	-104.9100987	N
PWV South Dumpline	4/11/2022	NA	1.2	NS	NO	40.35569575	-104.9101324	N
FLOWLINE POTHOLE SAMPLES								
PH01@5'-WP	4/11/2022	5	102.7	Stain	Odor	40.35549043	-104.9098171	Y
PH01-N01@5'	6/6/2022	5	113.6	Stain	Slight Odor	40.35549536	-104.9098239	Y
PH01-E01@5'	6/6/2022	5	169.6	Stain	Slight Odor	40.35550121	-104.9098032	Y
PH01-S01@5'	6/6/2022	5	9.3	NS	NO	40.3554855	-104.9098105	Y
PH01-W01@5'	6/6/2022	5	0.0	NS	NO	40.35547985	-104.9098313	Y
PH01-B01@9'	6/6/2022	9	11.1	NS	NO	40.35548929	-104.9098209	Y
PH01-E02@5'	6/15/2022	5	247.3	NS	Odor	40.35550792	-104.9097931	Y
PH01-E03@5'	7/18/2022	5	0.0	NS	NO	40.35552424	-104.9097726	Y
PH01-N02@5'	7/18/2022	5	0.4	NS	NO	40.35550203	-104.9098149	Y
PH01-N03@5'	8/1/2022	5	0.6	NS	NO	40.35554724	-104.9098283	Y
PH01-E04@5'	8/1/2022	5	0.0	NS	NO	40.35554585	-104.9097733	Y
PH01-S02@5'	8/1/2022	5	0.7	NS	NO	40.35550783	-104.9097773	Y
PH01-B02@10'	8/1/2022	10	0.3	NS	NO	40.35552712	-104.9098147	Y
SEPARATOR SAMPLES								
Sep01-Inlet@5'-WP	4/11/2022	5	12.5	NS	Odor	40.35547444	-104.9098872	Y
Sep01-Outlet@4'-WP	4/11/2022	4	1184	Stain	Odor	40.3555244	-104.9099406	Y

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Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	Submitted for Lab Analysis? (Y/N)
SEPARATOR SAMPLES								
Separator Footprint	4/11/2022	0	3.8	NS	NO	NA	NA	N
Sep01-Outlet-N01@5'	6/6/2022	5	130.6	NS	Odor	40.35553596	-104.9099537	Y
Sep01-Outlet-E01@5'	6/6/2022	5	1484.0	Stain	Odor	40.35553113	-104.9099121	Y
Sep01-Outlet-S01@5'	6/6/2022	5	740.6	Stain	Odor	40.35549893	-104.9099103	Y
Sep01-Outlet-W01@5'	6/6/2022	5	1738.0	Stain	Odor	40.35550157	-104.9099506	Y
Sep01-Outlet-B01@7'	6/6/2022	7	856.3	NS	Odor	40.35551621	-104.9099314	Y
Sep01-Outlet-E02@5'	6/15/2022	5	1748.0	Stain	Odor	40.35553961	-104.909891	Y
Sep01-Outlet-S02@5'	6/15/2022	5	1252.0	Stain	Odor	40.35549154	-104.9099049	Y
Sep01-Outlet-W02@5'	6/15/2022	5	1670.0	Stain	Odor	40.35548458	-104.9099645	Y
Sep01-Outlet-B02@9'	6/15/2022	9	549.6	Stain	Odor	40.35549981	-104.9099313	Y
Sep01-Outlet-W03@5'	7/18/2022	5	20.2	NS	NO	40.35549217	-104.9099993	Y
Sep01-Outlet-W04@5'	7/18/2022	5	802	Stain	Odor	40.35546255	-104.9099767	Y
Sep01-Outlet-B03@10'	7/18/2022	10	5.3	NS	NO	40.35549595	-104.9099607	Y
Sep01-Outlet-B04@10'	7/18/2022	10	13.9	NS	NO	40.35552871	-104.9098986	Y
Sep01-Outlet-B05@10'	7/18/2022	10	3.1	NS	NO	40.35549355	-104.9099078	Y
Sep01-Outlet-S03@5'	7/18/2022	5	2399	Stain	Odor	40.35544927	-104.9099388	Y
Sep01-Outlet-S04@5'	7/18/2022	5	2.2	NS	NO	40.35548745	-104.9098632	Y
Sep01-Outlet-E03@5'	7/18/2022	5	2005	Stain	Odor	40.35551695	-104.9098499	Y
Sep01-Outlet-E04@5'	7/18/2022	5	78.2	NS	NO	40.35555187	-104.9098826	Y
Sep01-Outlet-N02@5'	8/1/2022	5	1596	Stain	Odor	40.35552589	-104.9100176	Y
Sep01-Outlet-W05@5'	8/1/2022	5	0.0	NS	NO	40.35547749	-104.9100389	Y
Sep01-Outlet-W06@5'	8/1/2022	5	0.0	NS	NO	40.35543051	-104.9099913	Y
Sep01-Outlet-S05@5'	8/1/2022	5	0.0	NS	NO	40.35542591	-104.909932	Y
Sep01-Outlet-S06@5'	8/1/2022	5	1916	Stain	Odor	40.35545397	-104.9098954	Y
Sep01-Outlet-B06@11'	8/1/2022	11	0.0	NS	NO	40.35550493	-104.9099514	Y
Sep01-Outlet-B07@11'	8/1/2022	11	0.0	NS	NO	40.35553679	-104.9098903	Y
Sep01-Outlet-B08@11'	8/1/2022	11	9.3	NS	NO	40.35548884	-104.9099177	Y
Sep01-Outlet-B09@11'	8/1/2022	11	0.0	NS	NO	40.35544196	-104.9099463	Y
Sep01-Outlet-N03@5'	8/4/2022	5	2377	Stain	Odor	40.35556151	-104.9100408	Y
Sep01-Outlet-W07@5'	8/4/2022	5	0.0	NS	NO	40.35551548	-104.9100875	Y
Sep01-Outlet-B10@11.5'	8/4/2022	11.5	3.1	NS	NO	40.35548378	-104.909911	Y
Sep01-Outlet-B11@10'	8/4/2022	10	0.0	NS	NO	40.35552186	-104.9100356	Y
Sep01-Outlet-S07@5'	8/4/2022	5	777.3	Stain	Odor	40.35545128	-104.9098665	Y
Sep01-Outlet-W08@5'	8/11/2022	5	0.6	NS	NO	40.35555182	-104.9101046	Y

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Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	Submitted for Lab Analysis? (Y/N)
SEPARATOR SAMPLES								
Sep01-Outlet-N04@5'	8/11/2022	5	4.5	NS	NO	40.35557929	-104.9100794	Y
Sep01-Outlet-N05@5'	8/11/2022	5	377.5	Stain	Odor	40.3555979	-104.9100392	Y
Sep01-Outlet-E06@5'	8/11/2022	5	240.2	Stain	Odor	40.35559497	-104.9099926	Y
Sep01-Outlet-E07@5'	8/11/2022	5	2206	Stain	Odor	40.35556759	-104.9099653	Y
Sep01-Outlet-B12@10'	8/11/2022	10	2.3	NS	NO	40.35556078	-104.9100633	Y
Sep01-Outlet-B13@10'	8/11/2022	10	0.4	NS	NO	40.35555805	-104.9099911	Y
Sep01-Outlet-W09@5'	8/11/2022	5	0.3	NS	NO	40.3554152	-104.9098682	Y
Sep01-Outlet-S08@5'	8/11/2022	5	0.0	NS	NO	40.35540481	-104.909825	Y
Sep01-Outlet-E05@5'	8/11/2022	5	0.0	NS	NO	40.35543978	-104.9098111	Y
Sep01-Outlet-B14@9'	8/11/2022	5	1.2	NS	NO	40.35546747	-104.9098625	Y
Sep01-Outlet-B15@9'	8/11/2022	5	0.0	NS	NO	40.35542962	-104.909846	Y
Sep01-Outlet-E08@7'	8/26/2022	7	0.4	NS	NO	40.35565623	-104.9099683	Y
Sep01-Outlet-E09@7'	8/26/2022	7	135.3	NS	NO	40.35560997	-104.909913	Y
Sep01-Outlet-N06@7'	8/26/2022	7	0.3	NS	NO	40.35564837	-104.9100698	Y
Sep01-Outlet-N07@7'	8/26/2022	7	0.6	NS	NO	40.35567095	-104.910028	Y
Sep01-Outlet-W09@7'	8/26/2022	7	3.9	NS	NO	40.35561024	-104.9100784	Y
Sep01-Outlet-B16@10'	8/26/2022	10	0.0	NS	NO	40.35562308	-104.9100533	Y
Sep01-Outlet-B17@10'	8/26/2022	10	0.0	NS	NO	40.3556513	-104.9100127	Y
Sep01-Outlet-B18@10'	8/26/2022	10	0.0	NS	NO	40.3556122	-104.9099643	Y
Sep01-Outlet-B19@10'	8/26/2022	10	0.0	NS	NO	40.35557847	-104.9099299	Y
Sep01-Outlet-B20@10'	9/1/2022	10	0.0	NS	NO	40.35559783	-104.9098885	Y
Sep01-Outlet-E10@7'	9/1/2022	7	0.0	NS	NO	40.35561956	-104.9098466	Y
Sep01-Outlet-S09@7'	9/1/2022	7	1167	Stain	Odor	40.35556828	-104.9098504	Y
Sep01-Outlet-N08@7'	9/1/2022	7	1.4	NS	NO	40.35563859	-104.9098998	Y
Sep01-Outlet-E11@6'	9/6/2022	6	0.9	NS	NO	40.35560106	-104.9098265	Y
Sep01-Outlet-B21@7'	9/6/2022	7	1.1	NS	NO	40.35558565	-104.9098466	Y
MISCELLANEOUS SAMPLES								
Meter House	4/11/2022	NA	0.1	NS	NO	40.355522	-104.909901	N
BACKGROUND SOIL SAMPLES								
TB-BG01@6"	4/11/2022	0.5	NA	NS	NO	40.35576624	-104.910157	Y
Native-BG01@2.5	4/11/2022	2.5	NA	NS	NO	40.35544782	-104.9100816	Y
Native-BG01@5'	4/11/2022	5	NA	NS	NO	40.35544782	-104.9100816	Y
Native-BG02@2.5'	4/11/2022	2.5	NA	NS	NO	40.3554853	-104.9102471	Y
Native-BG02@5'	4/11/2022	5	NA	NS	NO	40.3554853	-104.9102471	Y

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Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	Submitted for Lab Analysis? (Y/N)
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Notes:

ft. - feet

bgs - below ground surface

PID - Photoionization detector

ppm - parts per million

NS - No Staining

NO - No Odor

NA - Not Analyzed/Not Applicable

TABLE 2-1
SOIL SAMPLE ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS
HUNTER, HUNTER 9-32 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 (PGSSL)			500			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
ABOVEGROUND STORAGE TANKS SAMPLES												
AST01@6"-WP	04/11/2022	0.50	3.19	30.2	<100	0.00728	0.0872	0.0171	0.183	0.0902	0.0291	0.017
AST01-N01@5'	06/06/2022	5	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
AST01-E01@5'	06/06/2022	5	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
AST01-S01@5'	06/06/2022	5	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
AST01-W01@5'	06/06/2022	5	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
AST01-B01@6'	06/06/2022	6	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
FLOWLINE POTHOLE SAMPLES												
PH01@5-WP	04/11/2022	5	16.2	61.4	<100	<0.00200	<0.00200	0.023	0.00282	0.456	0.054	0.103
PH01-N01@5'	06/06/2022	5	NA	NA	NA	NA	NA	NA	NA	<0.00200	<0.00200	0.00143
PH01-E01@5'	06/06/2022	5	NA	NA	NA	NA	NA	NA	NA	0.364	0.0162	0.00545
PH01-S01@5'	06/06/2022	5	NA	NA	NA	NA	NA	NA	NA	<0.00200	<0.00200	<0.00067
PH01-W01@5'	06/06/2022	5	NA	NA	NA	NA	NA	NA	NA	<0.00200	<0.00200	<0.00067
PH01-B01@9'	06/06/2022	9	NA	NA	NA	NA	NA	NA	NA	<0.00200	<0.00200	<0.00067
PH01-E02@5'	06/15/2022	5	NA	NA	NA	NA	NA	NA	NA	0.957	0.363	0.00542
PH01-E03@5'	07/18/2022	5	NA	NA	NA	NA	NA	NA	NA	19.5	5.69	0.699
PH01-N02@5'	07/18/2022	5	NA	NA	NA	NA	NA	NA	NA	<0.00200	<0.00200	<0.00380
PH01-N03@5'	08/01/2022	5	NA	NA	NA	NA	NA	NA	NA	<0.00200	<0.00200	<0.00067
PH01-E04@5'	08/01/2022	5	NA	NA	NA	NA	NA	NA	NA	<0.00200	<0.00200	<0.00067
PH01-S02@5'	08/01/2022	5	NA	NA	NA	NA	NA	NA	NA	<0.00200	<0.00200	<0.00067
PH01-B02@10'	08/01/2022	10	NA	NA	NA	NA	NA	NA	NA	<0.00200	<0.00200	<0.00067
PRODUCED WATER VESSEL SAMPLES												
PWV-B01@4'	04/11/2022	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
PWV-N01@2'-WP	04/11/2022	2	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
SEPARATOR SAMPLES												
SEP01-Inlet@5'-WP	04/11/2022	5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
SEP01-Outlet@4'-WP	04/11/2022	4	96.1	260	<100	0.181	0.0422	0.238	1.25	2.55	0.683	0.115
SEP01-Outlet@N01@5'	06/06/2022	5	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
SEP01-Outlet@E01@5'	06/06/2022	5	NA	NA	NA	0.0452	NA	NA	NA	0.249	0.0962	0.0278
SEP01-Outlet@S01@5'	06/06/2022	5	NA	NA	NA	0.168	NA	NA	NA	1.74	0.0680	0.0702
SEP01-Outlet@W01@5'	06/06/2022	5	NA	NA	NA	0.00434	NA	NA	NA	11.4	5.51	0.247
SEP01-Outlet@B01@7'	06/06/2022	7	NA	NA	NA	1.75	NA	NA	NA	5.74	2.15	0.251
Sep01-Outlet-E02@5'	06/15/2022	5	NA	NA	NA	1.84	NA	NA	NA	32.3	12.6	0.445
Sep01-Outlet-S02@5'	06/15/2022	5	NA	NA	NA	1.93	NA	NA	NA	13.9	5.23	0.343
Sep01-Outlet-W02@5'	06/15/2022	5	NA	NA	NA	1.62	NA	NA	NA	28.9	11.6	0.543
Sep01-Outlet-B02@9'	06/15/2022	9	NA	NA	NA	0.205	NA	NA	NA	0.408	0.200	0.00264
Sep01-Outlet-W03@5'	07/18/2022	5	NA	NA	NA	<0.00200	NA	NA	NA	0.0153	<0.00200	0.00722
Sep01-Outlet-W04@5'	07/18/2022	5	NA	NA	NA	<0.00200	NA	NA	NA	4.40	0.446	0.582
Sep01-Outlet-B03@10'	07/18/2022	10	NA	NA	NA	<0.00200	NA	NA	NA	0.0135	0.00810	<0.00380
Sep01-Outlet-B04@10'	07/18/2022	10	NA	NA	NA	<0.00200	NA	NA	NA	0.0121	0.00492	<0.00380
Sep01-Outlet-B05@10'	07/18/2022	10	NA	NA	NA	<0.00200	NA	NA	NA	0.00970	0.00400	<0.00380
Sep01-Outlet-S03@5'	07/18/2022	5	NA	NA	NA	0.108	NA	NA	NA	15.0	5.70	0.968
Sep01-Outlet-S04@5'	07/18/2022	5	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00380
Sep01-Outlet-E03@5'	07/18/2022	5	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00380
Sep01-Outlet-E04@5'	07/18/2022	5	NA	NA	NA	<0.00200	NA	NA	NA	0.406	<0.00200	<0.00380
SEP01-Outlet-N02@5'	08/01/2022	5	NA	NA	NA	0.0890	NA	NA	NA	9.15	0.359	0.195
SEP01-Outlet-W06@5'	08/01/2022	5	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067

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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 (PGSSL)		500			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
SEP01-Outlet-S05@5'	08/01/2022	5	NA	NA	NA	<0.00200	NA	NA	NA	0.00266	<0.00200	0.000542
SEP01-Outlet-S06@5'	08/01/2022	5	NA	NA	NA	0.00276	NA	NA	NA	2.85	0.369	0.114
SEP01-Outlet-B06@11'	08/01/2022	11	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
SEP01-Outlet-B07@11'	08/01/2022	11	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
SEP01-Outlet-B08@11'	08/01/2022	11	NA	NA	NA	0.00736	NA	NA	NA	0.0282	0.0152	<0.00067
SEP01-Outlet-B09@11'	08/01/2022	11	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
Sep01-Outlet-N03@5'	08/04/2022	5	NA	NA	NA	0.333	NA	NA	NA	5.77	0.910	0.478
Sep01-Outlet-W07@5'	08/04/2022	5	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
Sep01-Outlet-B10@11.5'	08/04/2022	11.5	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
Sep01-Outlet-B11@10'	08/04/2022	10	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
Sep01-Outlet-S07@5'	08/04/2022	5	NA	NA	NA	0.00406	NA	NA	NA	2.81	1.05	0.375
SEP01 Outlet W08@5'	08/11/2022	5	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
SEP01 Outlet N04@5'	08/11/2022	5	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
SEP01 Outlet N05@5'	08/11/2022	5	NA	NA	NA	0.117	NA	NA	NA	4.61	1.73	0.162
SEP01 Outlet E06@5'	08/11/2022	5	NA	NA	NA	0.0585	NA	NA	NA	0.344	0.103	0.00386
SEP01 Outlet E07@5'	08/11/2022	5	NA	NA	NA	2.01	NA	NA	NA	27.3	4.03	0.404
SEP01 Outlet B12@10'	08/11/2022	10	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
SEP01 Outlet B13@10'	08/11/2022	10	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
SEP01 Outlet W09@5'	08/11/2022	5	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
SEP01 Outlet S08@5'	08/11/2022	5	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
SEP01 Outlet E05@5'	08/11/2022	5	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
SEP01 Outlet B14@10'	08/11/2022	10	NA	NA	NA	<0.00200	NA	NA	NA	0.00492	0.00790	<0.00067
SEP01 Outlet B15@10'	08/11/2022	10	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
SEP01-Outlet E08@7'	08/26/2022	7	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	0.00227
SEP01-Outlet E09@7'	08/26/2022	7	NA	NA	NA	0.00436	NA	NA	NA	0.0348	0.0113	0.00448
SEP01-Outlet N06@7'	08/26/2022	7	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
SEP01-Outlet N07@7'	08/26/2022	7	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
SEP01-Outlet W09@7'	08/26/2022	7	NA	NA	NA	<0.00200	NA	NA	NA	0.00242	<0.00200	<0.00335
SEP01-Outlet B16@10'	08/26/2022	10	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
SEP01-Outlet B17@10'	08/26/2022	10	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
SEP01-Outlet B18@10'	08/26/2022	10	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
SEP01-Outlet B19@10'	08/26/2022	10	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
Sep01-Outlet-B20@10'	09/01/2022	10	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
Sep01-Outlet-E10@7'	09/01/2022	7	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
Sep01-Outlet-S09@7'	09/01/2022	7	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	0.108
Sep01-Outlet-N08@7'	09/01/2022	7	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
Sep01-Outlet-E11@6'	09/06/2022	6	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067
Sep01-Outlet-B21@7'	09/06/2022	7	NA	NA	NA	<0.00200	NA	NA	NA	<0.00200	<0.00200	<0.00067

Notes:

ECMC - Energy and Carbon Management Commission
PGSSL - 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
HUNTER, HUNTER 9-32 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 (PGSSL)			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 TANKS SAMPLES																
AST01@6"-WP	04/11/2022	0.50	0.00469	0.000598	<0.00067	0.000658	<0.00067	<0.00067	0.0027	<0.00067	<0.00067	0.012	<0.00067	0.0574	0.0894	0.00152
AST01-N01@5'	06/06/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
AST01-E01@5'	06/06/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
AST01-S01@5'	06/06/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
AST01-W01@5'	06/06/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
AST01-B01@6'	06/06/2022	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
FLOWLINE POTHOLE SAMPLES																
PH01@5-WP	04/11/2022	5	0.0221	0.000913	0.00188	0.000759	<0.00067	0.000612	0.0125	0.000746	0.000504	0.0664	<0.00067	0.387	0.515	0.00652
PH01-N01@5'	06/06/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0135	0.000865	NA
PH01-E01@5'	06/06/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.037	0.00289	NA
PH01-S01@5'	06/06/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
PH01-W01@5'	06/06/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
PH01-B01@9'	06/06/2022	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
PH01-E02@5'	06/15/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0425	0.0317	NA
PH01-E03@5'	07/18/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.38	2.75	NA
PH01-N02@5'	07/18/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
PH01-N03@5'	08/01/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
PH01-E04@5'	08/01/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
PH01-S02@5'	08/01/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
PH01-B02@10'	08/01/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
PRODUCED WATER VESSEL SAMPLES																
PWV-B01@4'	04/11/2022	4	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
PWV-N01@2'-WP	04/11/2022	2	<0.00067	<0.00067	<0.00067	0.000666	<0.00067	0.00056	<0.00067	<0.00067	0.00056	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SEPARATOR SAMPLES																
SEP01-Inlet@5'-WP	04/11/2022	5	<0.00067	<0.00067	0.00051	0.000963	0.000452	0.000743	0.000703	<0.00067	0.00109	0.000329	0.00125	0.00158	0.000842	0.00113
SEP01-Outlet@4'-WP	04/11/2022	4	0.0258	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	0.0136	<0.0067	<0.0067	0.0742	<0.0067	0.375	0.483	0.00722
SEP01-Outlet@N01@5'	06/06/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000588	0.00184	NA
SEP01-Outlet@E01@5'	06/06/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0702	0.115	NA
SEP01-Outlet@S01@5'	06/06/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.282	0.43	NA
SEP01-Outlet@W01@5'	06/06/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.05	1.19	NA
SEP01-Outlet@B01@7'	06/06/2022	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.461	0.928	NA
Sep01-Outlet-E02@5'	06/15/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.23	2.09	NA
Sep01-Outlet-S02@5'	06/15/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.979	1.77	NA
Sep01-Outlet-W02@5'	06/15/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.6	2.8	NA
Sep01-Outlet-B02@9'	06/15/2022	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00956	0.00737	NA
Sep01-Outlet-W03@5'	07/18/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00841	0.0155	NA
Sep01-Outlet-W04@5'	07/18/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.464	0.995	NA
Sep01-Outlet-B03@10'	07/18/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
Sep01-Outlet-B04@10'	07/18/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
Sep01-Outlet-B05@10'	07/18/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000737	0.00136	NA
Sep01-Outlet-S03@5'	07/18/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.65	2.34	NA
Sep01-Outlet-S04@5'	07/18/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	0.000804	NA
Sep01-Outlet-E03@5'	07/18/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
Sep01-Outlet-E04@5'	07/18/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0777	0.0283	NA
SEP01-Outlet-N02@5'	08/01/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.444	0.821	NA
SEP01-Outlet-W05@5'	08/01/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
SEP01-Outlet-W06@5'	08/01/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
SEP01-Outlet-S05@5'	08/01/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000726	0.0014	NA
SEP01-Outlet-S06@5'	08/01/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.297	0.502	NA

TABLE 2-2
SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
HUNTER, HUNTER 9-32 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 (PGSSL)			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
SEP01-Outlet-B06@11'	08/01/2022	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
SEP01-Outlet-B07@11'	08/01/2022	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
SEP01-Outlet-B08@11'	08/01/2022	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
SEP01-Outlet-B09@11'	08/01/2022	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
Sep01-Outlet-N03@5'	08/04/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.979	1.83	NA
Sep01-Outlet-W07@5'	08/04/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	0.000697	NA
Sep01-Outlet-B10@11.5'	08/04/2022	11.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
Sep01-Outlet-B11@10'	08/04/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
Sep01-Outlet-S07@5'	08/04/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87	1.56	NA
SEP01 Outlet W08@5'	08/11/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
SEP01 Outlet N04@5'	08/11/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
SEP01 Outlet N05@5'	08/11/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.445	0.736	NA
SEP01 Outlet E06@5'	08/11/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0235	0.0387	NA
SEP01 Outlet E07@5'	08/11/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.01	1.84	NA
SEP01 Outlet B12@10'	08/11/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
SEP01 Outlet B13@10'	08/11/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
SEP01 Outlet W09@5'	08/11/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
SEP01 Outlet S08@5'	08/11/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
SEP01 Outlet E05@5'	08/11/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
SEP01 Outlet B14@10'	08/11/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
SEP01 Outlet B15@10'	08/11/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
SEP01-Outlet E08@7'	08/26/2022	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00265	0.00422	NA
SEP01-Outlet E09@7'	08/26/2022	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.016	0.0247	NA
SEP01-Outlet N06@7'	08/26/2022	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
SEP01-Outlet N07@7'	08/26/2022	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
SEP01-Outlet W09@7'	08/26/2022	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00335	<0.00335	NA
SEP01-Outlet B16@10'	08/26/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
SEP01-Outlet B17@10'	08/26/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
SEP01-Outlet B18@10'	08/26/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
SEP01-Outlet B19@10'	08/26/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
Sep01-Outlet-B20@10'	09/01/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
Sep01-Outlet-E10@7'	09/01/2022	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
Sep01-Outlet-S09@7'	09/01/2022	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.23	0.435	NA
Sep01-Outlet-N08@7'	09/01/2022	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
Sep01-Outlet-E11@6'	09/06/2022	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
Sep01-Outlet-B21@7'	09/06/2022	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA

Notes:
ECMC - Energy and Carbon Management Commission
PGSSL - 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
HUNTER, HUNTER 9-32 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 Material)			0.17	0.739	8.34	0.0997
Site-Specific Background Limits (Native)			1.59	2.7	7.45-9.01	1.58
ABOVEGROUND STORAGE TANKS SAMPLES						
AST01@6"-WP	04/11/2022	0.50	0.539	0.706	7.91	0.38
AST01-N01@5'	06/06/2022	5	NA	NA	NA	NA
AST01-E01@5'	06/06/2022	5	NA	NA	NA	NA
AST01-S01@5'	06/06/2022	5	NA	NA	NA	NA
AST01-W01@5'	06/06/2022	5	NA	NA	NA	NA
AST01-B01@6'	06/06/2022	6	NA	NA	NA	NA
FLOWLINE POTHOLE SAMPLES						
PH01@5-WP	04/11/2022	5	0.603	1.01	7.65	0.375
PH01-N01@5'	06/06/2022	5	NA	NA	NA	NA
PH01-E01@5'	06/06/2022	5	NA	NA	NA	NA
PH01-S01@5'	06/06/2022	5	NA	NA	NA	NA
PH01-W01@5'	06/06/2022	5	NA	NA	NA	NA
PH01-B01@9'	06/06/2022	9	NA	NA	NA	NA
PH01-E02@5'	06/15/2022	5	NA	NA	NA	NA
PH01-E03@5'	07/18/2022	5	NA	NA	NA	NA
PH01-N02@5'	07/18/2022	5	NA	NA	NA	NA
PH01-N03@5'	08/01/2022	5	NA	NA	NA	NA
PH01-E04@5'	08/01/2022	5	NA	NA	NA	NA
PH01-S02@5'	08/01/2022	5	NA	NA	NA	NA
PH01-B02@10'	08/01/2022	10	NA	NA	NA	NA
PRODUCED WATER VESSEL SAMPLES						
PWV-B01@4'	04/11/2022	4	0.408	1.71	7.99	0.16
PWV-N01@2'-WP	04/11/2022	2	0.36	0.54	7.96	0.257
SEPARATOR SAMPLES						
SEP01-Inlet@5'-WP	04/11/2022	5	0.364	0.501	7.43	0.179
SEP01-Outlet@4'-WP	04/11/2022	4	0.543	0.439	7.43	0.322
SEP01-Outlet@N01@5'	06/06/2022	5	NA	NA	NA	NA
SEP01-Outlet@E01@5'	06/06/2022	5	NA	NA	NA	NA
SEP01-Outlet@S01@5'	06/06/2022	5	NA	NA	NA	NA
SEP01-Outlet@W01@5'	06/06/2022	5	NA	NA	NA	NA
SEP01-Outlet@B01@7'	06/06/2022	7	NA	NA	NA	NA
Sep01-Outlet-E02@5'	06/15/2022	5	NA	NA	NA	NA
Sep01-Outlet-S02@5'	06/15/2022	5	NA	NA	NA	NA
Sep01-Outlet-W02@5'	06/15/2022	5	NA	NA	NA	NA
Sep01-Outlet-B02@9'	06/15/2022	9	NA	NA	NA	NA
Sep01-Outlet-W03@5'	07/18/2022	5	NA	NA	NA	NA
Sep01-Outlet-W04@5'	07/18/2022	5	NA	NA	NA	NA
Sep01-Outlet-B03@10'	07/18/2022	10	NA	NA	NA	NA
Sep01-Outlet-B04@10'	07/18/2022	10	NA	NA	NA	NA
Sep01-Outlet-B05@10'	07/18/2022	10	NA	NA	NA	NA
Sep01-Outlet-S03@5'	07/18/2022	5	NA	NA	NA	NA
Sep01-Outlet-S04@5'	07/18/2022	5	NA	NA	NA	NA
Sep01-Outlet-E03@5'	07/18/2022	5	NA	NA	NA	NA
Sep01-Outlet-E04@5'	07/18/2022	5	NA	NA	NA	NA
SEP01-Outlet-N02@5'	08/01/2022	5	NA	NA	NA	NA
SEP01-Outlet-W05@5'	08/01/2022	5	NA	NA	NA	NA
SEP01-Outlet-W06@5'	08/01/2022	5	NA	NA	NA	NA
SEP01-Outlet-S05@5'	08/01/2022	5	NA	NA	NA	NA
SEP01-Outlet-S06@5'	08/01/2022	5	NA	NA	NA	NA
SEP01-Outlet-B06@11'	08/01/2022	11	NA	NA	NA	NA
SEP01-Outlet-B07@11'	08/01/2022	11	NA	NA	NA	NA
SEP01-Outlet-B08@11'	08/01/2022	11	NA	NA	NA	NA

TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
HUNTER, HUNTER 9-32 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 Material)			0.17	0.739	8.34	0.0997
Site-Specific Background Limits (Native)			1.59	2.7	7.45-9.01	1.58
SEP01-Outlet-B09@11'	08/01/2022	11	NA	NA	NA	NA
Sep01-Outlet-N03@5'	08/04/2022	5	NA	NA	NA	NA
Sep01-Outlet-W07@5'	08/04/2022	5	NA	NA	NA	NA
Sep01-Outlet-B10@11.5'	08/04/2022	11.5	NA	NA	NA	NA
Sep01-Outlet-B11@10'	08/04/2022	10	NA	NA	NA	NA
Sep01-Outlet-S07@5'	08/04/2022	5	NA	NA	NA	NA
SEP01 Outlet W08@5'	08/11/2022	5	NA	NA	NA	NA
SEP01 Outlet N04@5'	08/11/2022	5	NA	NA	NA	NA
SEP01 Outlet N05@5'	08/11/2022	5	NA	NA	NA	NA
SEP01 Outlet E06@5'	08/11/2022	5	NA	NA	NA	NA
SEP01 Outlet E07@5'	08/11/2022	5	NA	NA	NA	NA
SEP01 Outlet B12@10'	08/11/2022	10	NA	NA	NA	NA
SEP01 Outlet B13@10'	08/11/2022	10	NA	NA	NA	NA
SEP01 Outlet W09@5'	08/11/2022	5	NA	NA	NA	NA
SEP01 Outlet S08@5'	08/11/2022	5	NA	NA	NA	NA
SEP01 Outlet E05@5'	08/11/2022	5	NA	NA	NA	NA
SEP01 Outlet B14@10'	08/11/2022	10	NA	NA	NA	NA
SEP01 Outlet B15@10'	08/11/2022	10	NA	NA	NA	NA
SEP01-Outlet E08@7'	08/26/2022	7	NA	NA	NA	NA
SEP01-Outlet E09@7'	08/26/2022	7	NA	NA	NA	NA
SEP01-Outlet N06@7'	08/26/2022	7	NA	NA	NA	NA
SEP01-Outlet N07@7'	08/26/2022	7	NA	NA	NA	NA
SEP01-Outlet W09@7'	08/26/2022	7	NA	NA	NA	NA
SEP01-Outlet B16@10'	08/26/2022	10	NA	NA	NA	NA
SEP01-Outlet B17@10'	08/26/2022	10	NA	NA	NA	NA
SEP01-Outlet B18@10'	08/26/2022	10	NA	NA	NA	NA
SEP01-Outlet B19@10'	08/26/2022	10	NA	NA	NA	NA
Sep01-Outlet-B20@10'	09/01/2022	10	NA	NA	NA	NA
Sep01-Outlet-E10@7'	09/01/2022	7	NA	NA	NA	NA
Sep01-Outlet-S09@7'	09/01/2022	7	NA	NA	NA	NA
Sep01-Outlet-N08@7'	09/01/2022	7	NA	NA	NA	NA
Sep01-Outlet-E11@6'	09/06/2022	6	NA	NA	NA	NA
Sep01-Outlet-B21@7'	09/06/2022	7	NA	NA	NA	NA
BACKGROUND SAMPLES						
Native-BG01@2.5'	04/11/2022	2.5	1.59	2.70	8.05	1.58
Native-BG01@5'	04/11/2022	5	1.05	2.00	8.29	0.602
Native-BG02@2.5'	04/11/2022	2.5	1.06	1.56	8.21	0.801
Native-BG02@5'	04/11/2022	5	1.3	1.65	8.11	0.884
TB-BG01@6"	04/11/2022	0.5	0.17	0.739	8.34	0.0997

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
HUNTER, HUNTER 9-32 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)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Site-Specific Background Limits (TB Material)			2	44.5	0.0741	<0.5	6.43	4.71	6.65	0.381	0.0148	424
Site-Specific Background Limits (Native)			2.23	130	0.147	0	10.5	6	11	0.522	0.0415	44.1
ABOVEGROUND STORAGE TANKS SAMPLES												
AST01@6"-WP	04/11/2022	0.50	1.56*	96.6	0.153	<1	9.85	8.34	10.5	0.467*	0.0382	41.6
AST01-N01@5'	06/06/2022	5	NA	76.7	NA	NA	NA	NA	NA	NA	NA	NA
AST01-E01@5'	06/06/2022	5	NA	79.5	NA	NA	NA	NA	NA	NA	NA	NA
AST01-S01@5'	06/06/2022	5	NA	135*	NA	NA	NA	NA	NA	NA	NA	NA
AST01-W01@5'	06/06/2022	5	NA	79.1	NA	NA	NA	NA	NA	NA	NA	NA
AST01-B01@6'	06/06/2022	6	NA	96.2*	NA	NA	NA	NA	NA	NA	NA	NA
FLOWLINE POTHOLE SAMPLES												
PH01@5-WP	04/11/2022	5	1.78*	136*	0.21	<2.5	12.6	7.21	15.9	0.887	0.0473	51.3
PH01-N01@5'	06/06/2022	5	NA	92.8*	NA	NA	NA	NA	NA	0.612	NA	NA
PH01-E01@5'	06/06/2022	5	NA	112*	NA	NA	NA	NA	NA	0.545*	NA	NA
PH01-S01@5'	06/06/2022	5	NA	109*	NA	NA	NA	NA	NA	0.741	NA	NA
PH01-W01@5'	06/06/2022	5	NA	93.1*	NA	NA	NA	NA	NA	0.614	NA	NA
PH01-B01@9'	06/06/2022	9	NA	83.4*	NA	NA	NA	NA	NA	0.729	NA	NA
PH01-E02@5'	06/15/2022	5	NA	168	NA	NA	NA	NA	NA	0.381*	NA	NA
PH01-E03@5'	07/18/2022	5	NA	123*	NA	NA	NA	NA	NA	0.150	NA	NA
PH01-N02@5'	07/18/2022	5	NA	123*	NA	NA	NA	NA	NA	<0.0642	NA	NA
PH01-N03@5'	08/01/2022	5	NA	118*	NA	NA	NA	NA	NA	0.292*	NA	NA
PH01-E04@5'	08/01/2022	5	NA	101*	NA	NA	NA	NA	NA	0.415*	NA	NA
PH01-S02@5'	08/01/2022	5	NA	145*	NA	NA	NA	NA	NA	0.269*	NA	NA
PH01-B02@10'	08/01/2022	10	NA	10.7	NA	NA	NA	NA	NA	<0.0843	NA	NA
PRODUCED WATER VESSEL SAMPLES												
PWV-B01@4'	04/11/2022	4	1.13*	69.5	0.114	<2.5	8.42	5.33	8.67	0.389*	0.0297	32.9
PWV-N01@2'-WP	04/11/2022	2	1.3*	93.7*	0.161	<2.57	11.3	6.91	11.9	0.504*	0.0353	45.3
SEPARATOR SAMPLES												
SEP01-Inlet@5'-WP	04/11/2022	5	1.84*	101*	0.142	<1.04	9.39	7.5	10.6	0.385*	0.034	34.8
SEP01-Outlet@4'-WP	04/11/2022	4	1.31*	95*	0.171	<2.53	9.09	7.01	9.01	0.512*	0.0326	35.7
SEP01-Outlet@N01@5'	06/06/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-Outlet@E01@5'	06/06/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-Outlet@S01@5'	06/06/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-Outlet@W01@5'	06/06/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-Outlet@B01@7'	06/06/2022	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep01-Outlet-E02@5'	06/15/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep01-Outlet-S02@5'	06/15/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep01-Outlet-W02@5'	06/15/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep01-Outlet-B02@9'	06/15/2022	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep01-Outlet-W03@5'	07/18/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep01-Outlet-W04@5'	07/18/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep01-Outlet-B03@10'	07/18/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep01-Outlet-B04@10'	07/18/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep01-Outlet-B05@10'	07/18/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep01-Outlet-S03@5'	07/18/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep01-Outlet-S04@5'	07/18/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep01-Outlet-E03@5'	07/18/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep01-Outlet-E04@5'	07/18/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-Outlet-N02@5'	08/01/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
HUNTER, HUNTER 9-32 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)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Site-Specific Background Limits (TB Material)			2	44.5	0.0741	<0.5	6.43	4.71	6.65	0.381	0.0148	424
Site-Specific Background Limits (Native)			2.23	130	0.147	0	10.5	6	11	0.522	0.0415	44.1
SEP01-Outlet-W05@5'	08/01/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-Outlet-W06@5'	08/01/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-Outlet-S05@5'	08/01/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-Outlet-S06@5'	08/01/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-Outlet-B06@11'	08/01/2022	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-Outlet-B07@11'	08/01/2022	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-Outlet-B08@11'	08/01/2022	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-Outlet-B09@11'	08/01/2022	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep01-Outlet-N03@5'	08/04/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep01-Outlet-W07@5'	08/04/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep01-Outlet-B10@11.5'	08/04/2022	11.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep01-Outlet-B11@10'	08/04/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep01-Outlet-S07@5'	08/04/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01 Outlet W08@5'	08/11/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01 Outlet N04@5'	08/11/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01 Outlet N05@5'	08/11/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01 Outlet E06@5'	08/11/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01 Outlet E07@5'	08/11/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01 Outlet B12@10'	08/11/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01 Outlet B13@10'	08/11/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01 Outlet W09@5'	08/11/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01 Outlet S08@5'	08/11/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01 Outlet E05@5'	08/11/2022	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01 Outlet B14@10'	08/11/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01 Outlet B15@10'	08/11/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-Outlet E08@7'	08/26/2022	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-Outlet E09@7'	08/26/2022	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-Outlet N06@7'	08/26/2022	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-Outlet N07@7'	08/26/2022	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-Outlet W09@7'	08/26/2022	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-Outlet B16@10'	08/26/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-Outlet B17@10'	08/26/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-Outlet B18@10'	08/26/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-Outlet B19@10'	08/26/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep01-Outlet-B20@10'	09/01/2022	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep01-Outlet-E10@7'	09/01/2022	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep01-Outlet-S09@7'	09/01/2022	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep01-Outlet-N08@7'	09/01/2022	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep01-Outlet-E11@6'	09/06/2022	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep01-Outlet-B21@7'	09/06/2022	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND SAMPLES												
Native-BG01@2.5'	04/20/2022	2.5	2.21	85.1	0.146	<0.505	10.5	6	11	0.522	0.0415	44.1
Native-BG01@5'	04/20/2022	5	1.53	58.6	0.0665	<0.5	6.16	4.17	7.93	0.44	0.0296	28.2
Native-BG02@2.5'	04/20/2022	2.5	1.7	77.1	0.124	<0.5	8.2	5.09	10.5	0.377	0.0214	32.3
Native-BG02@5'	04/20/2022	5	2.23	130	0.147	<0.517	8.89	5.92	10.3	0.41	0.0317	34.9
TB-BG01@6"	04/20/2022	0.5	2	44.5	0.0741	<0.5	6.43	4.71	6.65	0.381	0.0148	424

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
HUNTER, HUNTER 9-32 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)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Site-Specific Background Limits (TB Material)			2	44.5	0.0741	<0.5	6.43	4.71	6.65	0.381	0.0148	424
Site-Specific Background Limits (Native)			2.23	130	0.147	0	10.5	6	11	0.522	0.0415	44.1

Notes:

ECMC - Energy and Carbon Management Commission

PGSSL - Protection of Groundwater Soil Screening Level Concentrations

ft - feet

bgs - below ground surface

mg/kg - milligrams per kilogram

< - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

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

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

^ - site-specific background is shown as 1.25x maximum background to account for analytical variability

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

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
HUNTER, HUNTER 9&16-32 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- trimethylbenzene (µg/L)	1,3,5- trimethylbenzene (µg/L)	Total Dissolved Solids (ug/L)	Chloride Ion (ug/L)	Sulfate Ion (ug/L)	Depth to Water/ (Product Thickness) (ft bgs)
COGCC Allowable Levels		5	560	700	1400	140	67	67	2,112,500	250,000	1,001,250	
GW02	6/6/2022	44.8	<1.00	7.37	40.5	2.93	55.0	19.5	1,310,000	32,600	493,000	5.5
GW01	6/15/2022	770	<1.00	210	1470	43.5	409	156	1,140,000	32,000	528,000	5.5
BG-GW01	9/16/2022	NA	NA	NA	NA	NA	NA	NA	1,570,000	65,200	734,000	9.5
BG-GW02	9/16/2022	NA	NA	NA	NA	NA	NA	NA	1,690,000	83,100	801,000	9.5

Notes: COGCC - Colorado Oil and Gas Conservation Commission

ft bgs - feet below ground surface

NA - not analyzed/not available

Total dissolved solids and sulfate ion parameters based on background sample (BG-GW02) concentration x 1.25

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

µg/L - micrograms per liter

< - less than laboratory reporting limit

Excavation groundwater depth is approximate



April 26, 2022

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

**Project Name - KMG - Hunter, Hunter 9&16-32
OSA**

Project Number - 31403177.022.24.05

Attached are your analytical results for KMG - Hunter, Hunter 9&16-32 OSA received by Origins Laboratory, Inc. April 11, 2022. This project is associated with Origins project number Y204204-01.

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

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

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

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

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

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



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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.022.24.05

Project: KMG - Hunter, Hunter 9&16-32 OSA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01@6"-WP	Y204204-01	Soil	April 11, 2022 15:15	04/11/2022 18:05
PWV-B01@4'	Y204204-02	Soil	April 11, 2022 15:30	04/11/2022 18:05
PWV-N01@2'-WP	Y204204-03	Soil	April 11, 2022 15:35	04/11/2022 18:05
SEP01-Inlet@5'-WP	Y204204-04	Soil	April 11, 2022 15:40	04/11/2022 18:05
SEP01-Outlet@4'-WP	Y204204-05	Soil	April 11, 2022 15:48	04/11/2022 18:05
PH01@5-WP	Y204204-06	Soil	April 11, 2022 16:15	04/11/2022 18:05
Native-BG01@2.5'	Y204204-07	Soil	April 11, 2022 16:25	04/11/2022 18:05
Native-BG01@5'	Y204204-08	Soil	April 11, 2022 16:28	04/11/2022 18:05
Native-BG02@2.5'	Y204204-09	Soil	April 11, 2022 16:35	04/11/2022 18:05
Native-BG02@5'	Y204204-10	Soil	April 11, 2022 16:38	04/11/2022 18:05
TB-BG01@6'	Y204204-11	Soil	April 11, 2022 16:50	04/11/2022 18:05

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other		
ASTO106 th -wp	4-11-22	1515	2	X					X			PH, EC, STX SP 1500N A15 metals	1 Gw protection
PWV-Bo1@4'		1530											2
PWV-N102 nd -wp		1535											3
Sepl-TH105 th -wp		1540											4
Sepl-cult@4'-wp		1548											5
PH105 th -wp		1615											6
Native-R101@2.5'		1625										X X	7
Native-B61@5'		1628										X X	8
Native-B102@2.5'		1635										X X	9
Native-B62@5'		1638										X X	10
Relinquished By:	Date: 4-11-22	Time: 805	Time:	Received By: J+1	Date: 4/11/22	Time: 1505	Time:	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>					
Relinquished By:	Date:	Time:	Time:	Received By:	Date:	Time:	Time:						

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.022.24.05

Project: KMG - Hunter, Hunter 9&16-32 OSA

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 4204204

Client: WSP

Client Project ID: Hunter, Hunter 9&16-32

Checklist Completed by: PH

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

Date/time completed: 4/11/12

Airbill #: NA

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

Cooler Number/Temperature: 1/12-0 °C / °C / °C / °C

Thermometer ID: 1004

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

⁽¹⁾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 4/11/12

Origins Laboratory, Inc.

[Signature]

Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

AST01@6"-WP
4/11/2022 3:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204204-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.380	0.100	mg/L	1	B2D1212	04/12/2022	04/13/2022
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	30.2	25.0	mg/kg	1	B2D1117	04/11/2022	04/12/2022
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	" U

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

1,2,4-Trimethylbenzene	0.0902	0.00200	mg/kg	1	B2D1118	04/11/2022	04/12/2022
1,3,5-Trimethylbenzene	0.0291	0.00200	"	"	"	"	"
Benzene	0.00728	0.00200	"	"	"	"	"
Ethylbenzene	0.0171	0.00200	"	"	"	"	"
Toluene	0.0872	0.00200	"	"	"	"	"
Xylenes, total	0.183	0.00200	"	"	"	"	"
Gasoline Range Hydrocarbons	3.19	0.200	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130	"	"	"
Surrogate: Toluene-d8	96.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

AST01@6"-WP
4/11/2022 3:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204204-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.64	0.499	meq/L	10	[CALC]	04/12/2022	04/14/2022
Magnesium	1.37	0.823	"	"	"	"	"
Sodium	1.00	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.0574	0.000364	0.00067	mg/Kg	1	L611209	04/16/2022	04/20/2022
2-Methylnaphthalene	0.0894	0.000645	0.00067	"	"	"	"	"
Acenaphthene	0.00469	0.000304	0.00067	"	"	"	"	"
Anthracene	0.000598	0.000334	0.00067	"	"	"	"	J
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.000658	0.000585	0.00067	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.0027	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.012	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	0.017	0.000484	0.00067	"	"	"	"	"
Pyrene	0.00152	0.000643	0.00067	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	61.3 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	62.6 %		33-122			"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

AST01@6"-WP
4/11/2022 3:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204204-01 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	43.3 %	29-110	L611209	04/16/2022	04/20/2022
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pH in Soil by 9045D

pH	7.91	pH Units	1	B2D1324	04/13/2022	04/14/2022
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SAR by 20B Saturated Paste

SAR	0.706	SAR	1	B2D1223	04/12/2022	04/14/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.539	0.00500	mmhos/cm	1	B2D1320	04/13/2022	04/14/2022
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Total Metals by 6020B

Arsenic	1.56	0.0855	0.25	mg/Kg	5	L610848	04/14/2022	04/18/2022
Barium	96.6	0.042	0.25	"	"	"	"	"
Cadmium	0.153	0.0259	0.25	"	"	"	"	J
Copper	9.85	0.0806	0.25	"	"	"	"	"
Lead	8.34	0.031	0.25	"	"	"	"	"
Nickel	10.5	0.0633	0.25	"	"	"	"	"
Selenium	0.467	0.103	0.25	"	"	"	"	"
Silver	0.0382	0.0067	0.25	"	"	"	"	J
Zinc	41.6	0.534	2.5	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.022.24.05

Project: KMG - Hunter, Hunter 9&16-32 OSA

AST01@6"-WP

4/11/2022 3:15:00PM

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

Y204204-01 (Soil)

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L611905	04/11/2022	04/20/2022
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

PWV-B01@4'
4/11/2022 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204204-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.160	0.100	mg/L	1	B2D1224	04/12/2022	04/14/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D1117	04/11/2022	04/12/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D1118	04/11/2022	04/12/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	"
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

PWV-B01@4'

4/11/2022 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204204-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.7 %	70-130	B2D11 18	04/11/2022	04/12/2022
Surrogate: 4-Bromofluorobenzene	95.5 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.67	0.499	meq/L	10	[CALC]	04/12/2022	04/14/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.88	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L611209	04/16/2022	04/20/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

PWV-B01@4'
4/11/2022 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204204-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L611209	04/16/2022	04/20/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	46.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	65 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	36.2 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.99	pH Units	1	B2D1324	04/13/2022	04/14/2022
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SAR by 20B Saturated Paste

SAR	1.71	SAR	1	B2D1223	04/12/2022	04/14/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.408	0.00500	mmhos/cm	1	B2D1320	04/13/2022	04/14/2022
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Total Metals by 6020B

Arsenic	1.13	0.0855	0.25	mg/Kg	5	L610848	04/14/2022	04/18/2022
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

PWV-B01@4'

4/11/2022 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204204-02 (Soil)

Total Metals by 6020B

Barium	69.5	0.042	0.25	mg/Kg	5	L610848	04/14/2022	04/18/2022	
Cadmium	0.114	0.0259	0.25	"	"	"	"	"	J
Copper	8.42	0.0806	0.25	"	"	"	"	"	
Lead	5.33	0.031	0.25	"	"	"	"	"	
Nickel	8.67	0.0633	0.25	"	"	"	"	"	
Selenium	0.389	0.103	0.25	"	"	"	"	"	
Silver	0.0297	0.0067	0.25	"	"	"	"	"	J
Zinc	32.9	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L611905	04/11/2022	04/20/2022	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

PWV-N01@2'-WP
4/11/2022 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204204-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.257	0.0988	mg/L	1	B2D1224	04/12/2022	04/14/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D1117	04/11/2022	04/12/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	98.5 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D1118	04/11/2022	04/12/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

PWV-N01@2'-WP
4/11/2022 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204204-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.4 %	70-130	B2D11 18	04/11/2022	04/12/2022
Surrogate: 4-Bromofluorobenzene	95.2 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.78	0.499	meq/L	10	[CALC]	04/12/2022	04/14/2022
Magnesium	1.02	0.823	"	"	"	"	"
Sodium	0.639	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L611209	04/16/2022	04/20/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.00056	0.000468	0.00067	"	"	"	"	J
Benzo(b)fluoranthene	0.000666	0.000585	0.00067	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.00056	0.000394	0.00067	"	"	"	"	J
Fluorene	ND	0.000286	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

PWV-N01@2'-WP
4/11/2022 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204204-03 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L611209	04/16/2022	04/20/2022
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	53.3 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	53.9 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	36.1 %		29-110			"	"	"

pH in Soil by 9045D

pH	7.96			pH Units	1	B2D1324	04/13/2022	04/14/2022
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SAR by 20B Saturated Paste

SAR	0.540			SAR	1	B2D1223	04/12/2022	04/14/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.360		0.00500	mmhos/cm	1	B2D1320	04/13/2022	04/14/2022
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Total Metals by 6020B

Arsenic	1.3	0.0855	0.25	mg/Kg	5	L610848	04/14/2022	04/18/2022
Barium	93.7	0.042	0.25	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

PWV-N01@2'-WP
4/11/2022 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204204-03 (Soil)

Total Metals by 6020B

Cadmium	0.161	0.0259	0.25	mg/Kg	5	L610848	04/14/2022	04/18/2022	J
Copper	11.3	0.0806	0.25	"	"	"	"	"	
Lead	6.91	0.031	0.25	"	"	"	"	"	
Nickel	11.9	0.0633	0.25	"	"	"	"	"	
Selenium	0.504	0.103	0.25	"	"	"	"	"	
Silver	0.0353	0.0067	0.25	"	"	"	"	"	J
Zinc	45.3	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.25	2.57	mg/Kg	5	L611905	04/11/2022	04/20/2022	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

SEP01-Inlet@5'-WP
4/11/2022 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204204-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.179	0.0994	mg/L	1	B2D1224	04/12/2022	04/14/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D1117	04/11/2022	04/12/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	98.9 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D1118	04/11/2022	04/12/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

SEP01-Inlet@5'-WP
4/11/2022 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204204-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %	70-130	B2D11 18	04/11/2022	04/12/2022
Surrogate: 4-Bromofluorobenzene	97.8 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.96	0.499	meq/L	10	[CALC]	04/12/2022	04/14/2022
Magnesium	0.996	0.823	"	"	"	"	"
Sodium	0.609	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.00158	0.000364	0.00067	mg/Kg	1	L611209	04/16/2022	04/20/2022
2-Methylnaphthalene	0.000842	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.00051	0.000493	0.00067	"	"	"	"	" J
Benzo(a)pyrene	0.000743	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.000963	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.000452	0.000437	0.00067	"	"	"	"	" J
Chrysene	0.000703	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.00109	0.000394	0.00067	"	"	"	"	"
Fluorene	0.000329	0.000286	0.00067	"	"	"	"	" J

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

SEP01-Inlet@5'-WP
4/11/2022 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204204-04 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.00125	0.000627	0.00067	mg/Kg	1	L611209	04/16/2022	04/20/2022	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	0.00113	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	59.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	70.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	40.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.43			pH Units	1	B2D1324	04/13/2022	04/14/2022	
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SAR by 20B Saturated Paste

SAR	0.501			SAR	1	B2D1223	04/12/2022	04/14/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.364		0.00500	mmhos/cm	1	B2D1320	04/13/2022	04/14/2022	
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Total Metals by 6020B

Arsenic	1.84	0.0855	0.25	mg/Kg	5	L610848	04/14/2022	04/18/2022	
Barium	101	0.042	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

SEP01-Inlet@5'-WP
4/11/2022 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204204-04 (Soil)

Total Metals by 6020B

Cadmium	0.142	0.0259	0.25	mg/Kg	5	L610848	04/14/2022	04/18/2022	J
Copper	9.39	0.0806	0.25	"	"	"	"	"	
Lead	7.5	0.031	0.25	"	"	"	"	"	
Nickel	10.6	0.0633	0.25	"	"	"	"	"	
Selenium	0.385	0.103	0.25	"	"	"	"	"	
Silver	0.034	0.0067	0.25	"	"	"	"	"	J
Zinc	34.8	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.507	1.04	mg/Kg	2	L611905	04/11/2022	04/20/2022	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

SEP01-Outlet@4'-WP
4/11/2022 3:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204204-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.322	0.101	mg/L	1	B2D1224	04/12/2022	04/14/2022
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	230	25.0	mg/kg	1	B2D1117	04/11/2022	04/12/2022
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	" U

Surrogate: o-Terphenyl	97.9 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	2.55	0.0500	mg/kg	25	B2D1118	04/11/2022	04/12/2022
1,3,5-Trimethylbenzene	0.683	0.0500	"	"	"	"	"
Benzene	0.181	0.0500	"	"	"	"	"
Ethylbenzene	0.238	0.0500	"	"	"	"	"
Toluene	0.0422	0.00200	"	1	"	"	04/12/2022
Xylenes, total	1.25	0.0500	"	25	"	"	04/12/2022
Gasoline Range Hydrocarbons	96.1	5.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	96.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	70-130	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

SEP01-Outlet@4'-WP
4/11/2022 3:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204204-05 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	3.12	0.499	meq/L	10	[CALC]	04/12/2022	04/14/2022
Magnesium	1.71	0.823	"	"	"	"	"
Sodium	0.683	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.375	0.00364	0.0067	mg/Kg	10	L611209	04/16/2022	04/20/2022
2-Methylnaphthalene	0.483	0.00645	0.0067	"	"	"	"	"
Acenaphthene	0.0258	0.00304	0.0067	"	"	"	"	"
Anthracene	ND	0.00334	0.0067	"	"	"	"	"
Benzo(a)anthracene	ND	0.00493	0.0067	"	"	"	"	"
Benzo(a)pyrene	ND	0.00468	0.0067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00585	0.0067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00437	0.0067	"	"	"	"	"
Chrysene	0.0136	0.00624	0.0067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00614	0.0067	"	"	"	"	"
Fluoranthene	ND	0.00394	0.0067	"	"	"	"	"
Fluorene	0.0742	0.00286	0.0067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00627	0.0067	"	"	"	"	"
Naphthalene	0.115	0.00484	0.0067	"	"	"	"	"
Pyrene	0.00722	0.00643	0.0067	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	47.7 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	53.5 %		33-122			"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

SEP01-Outlet@4'-WP
4/11/2022 3:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204204-05 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	36.2 %	29-110	L611209	04/16/2022	04/20/2022
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pH in Soil by 9045D

pH	7.43	pH Units	1	B2D1324	04/13/2022	04/14/2022
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SAR by 20B Saturated Paste

SAR	0.439	SAR	1	B2D1223	04/12/2022	04/14/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.543	0.00500	mmhos/cm	1	B2D1320	04/13/2022	04/14/2022
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Total Metals by 6020B

Arsenic	1.31	0.0855	0.25	mg/Kg	5	L610848	04/14/2022	04/18/2022	
Barium	95	0.042	0.25	"	"	"	"	"	
Cadmium	0.171	0.0259	0.25	"	"	"	"	"	J
Copper	9.09	0.0806	0.25	"	"	"	"	"	
Lead	7.01	0.031	0.25	"	"	"	"	"	
Nickel	9.01	0.0633	0.25	"	"	"	"	"	
Selenium	0.512	0.103	0.25	"	"	"	"	"	
Silver	0.0326	0.0067	0.25	"	"	"	"	"	J
Zinc	35.7	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

SEP01-Outlet@4'-WP
4/11/2022 3:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204204-05 (Soil)

Total Metals by 7196A

Chromium, Hexavalent	ND	1.23	2.53	mg/Kg	5	L611905	04/11/2022	04/20/2022
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

PH01@5-WP
4/11/2022 4:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204204-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.375	0.0986	mg/L	1	B2D1224	04/12/2022	04/14/2022
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	61.4	25.0	mg/kg	1	B2D1117	04/11/2022	04/12/2022
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	" U

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

1,2,4-Trimethylbenzene	0.456	0.0500	mg/kg	25	B2D1118	04/11/2022	04/12/2022
1,3,5-Trimethylbenzene	0.0540	0.00200	"	1	"	"	04/12/2022
Benzene	ND	0.00200	"	"	"	"	" U
Ethylbenzene	0.0230	0.00200	"	"	"	"	"
Toluene	ND	0.00200	"	"	"	"	" U
Xylenes, total	0.00282	0.00200	"	"	"	"	"
Gasoline Range Hydrocarbons	16.2	0.200	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	04/12/2022
Surrogate: Toluene-d8	97.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

PH01@5-WP
4/11/2022 4:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204204-06 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.13	0.499	meq/L	10	[CALC]	04/12/2022	04/14/2022
Magnesium	2.68	0.823	"	"	"	"	"
Sodium	1.56	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.387	0.000364	0.00067	mg/Kg	1	L611209	04/16/2022	04/20/2022
2-Methylnaphthalene	0.515	0.00645	0.0067	"	10	"	"	"
Acenaphthene	0.0221	0.000304	0.00067	"	1	"	"	"
Anthracene	0.000913	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.00188	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.000612	0.000468	0.00067	"	"	"	"	J
Benzo(b)fluoranthene	0.000759	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.0125	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	0.000746	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.000504	0.000394	0.00067	"	"	"	"	J
Fluorene	0.0664	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	0.103	0.000484	0.00067	"	"	"	"	"
Pyrene	0.00652	0.000643	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

PH01@5-WP

4/11/2022 4:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc. Y204204-06 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	50 %		33-115			L611209	04/16/2022	04/20/2022	
Surrogate: 4-Terphenyl-d14	55.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	40.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.65			pH Units	1	B2D1324	04/13/2022	04/14/2022	
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SAR by 20B Saturated Paste

SAR	1.01			SAR	1	B2D1223	04/12/2022	04/14/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.603		0.00500	mmhos/cm	1	B2D1320	04/13/2022	04/14/2022	
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Total Metals by 6020B

Arsenic	1.78	0.0855	0.25	mg/Kg	5	L610848	04/14/2022	04/18/2022	
Barium	136	0.042	0.25	"	"	"	"	"	
Cadmium	0.21	0.0259	0.25	"	"	"	"	"	J
Copper	12.6	0.0806	0.25	"	"	"	"	"	
Lead	7.21	0.031	0.25	"	"	"	"	"	
Nickel	15.9	0.0633	0.25	"	"	"	"	"	
Selenium	0.887	0.103	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

PH01@5-WP

4/11/2022 4:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204204-06 (Soil)

Total Metals by 6020B

Silver	0.0473	0.0067	0.25	mg/Kg	5	L610848	04/14/2022	04/18/2022	J
Zinc	51.3	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L611905	04/11/2022	04/20/2022	
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

Native-BG01@2.5'
4/11/2022 4:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204204-07 (Soil)

Boron (DTPA Sorbitol)

Boron	1.58	0.100	mg/L	1	B2D1224	04/12/2022	04/14/2022
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Metals by Saturated Paste by EPA 6010

Calcium	3.95	0.499	meq/L	10	[CALC]	04/12/2022	04/14/2022
Magnesium	7.92	0.823	"	"	"	"	"
Sodium	6.57	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.05		pH Units	1	B2D1324	04/13/2022	04/14/2022
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SAR by 20B Saturated Paste

SAR	2.70		SAR	1	B2D1223	04/12/2022	04/14/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.59	0.00500	mmhos/cm	1	B2D1320	04/13/2022	04/14/2022
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Total Metals by 6020 B

Arsenic	2.21	0.0855	0.25	mg/Kg	5	L611158	04/15/2022	04/18/2022
Barium	85.1	0.042	0.25	"	"	"	"	"
Cadmium	0.146	0.0259	0.25	"	"	"	"	"
Copper	10.5	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

Native-BG01@2.5'
4/11/2022 4:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204204-07 (Soil)

Total Metals by 6020 B

Lead	6	0.031	0.25	mg/Kg	5	L611158	04/15/2022	04/18/2022	
Nickel	11	0.0633	0.25	"	"	"	"	"	
Selenium	0.522	0.103	0.25	"	"	"	"	"	
Silver	0.0415	0.0067	0.25	"	"	"	"	"	J
Zinc	44.1	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.246	0.505	mg/Kg	1	L611905	04/11/2022	04/20/2022	
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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

Native-BG01@5'
4/11/2022 4:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204204-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.602	0.100	mg/L	1	B2D1224	04/12/2022	04/14/2022
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Metals by Saturated Paste by EPA 6010

Calcium	1.79	0.499	meq/L	10	[CALC]	04/12/2022	04/14/2022
Magnesium	6.11	0.823	"	"	"	"	"
Sodium	3.97	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.29		pH Units	1	B2D1324	04/13/2022	04/14/2022
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SAR by 20B Saturated Paste

SAR	2.00		SAR	1	B2D1223	04/12/2022	04/14/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.05	0.00500	mmhos/cm	1	B2D1320	04/13/2022	04/14/2022
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Total Metals by 6020 B

Arsenic	1.53	0.0855	0.25	mg/Kg	5	L611158	04/15/2022	04/18/2022
Barium	58.6	0.042	0.25	"	"	"	"	"
Cadmium	0.0665	0.0259	0.25	"	"	"	"	"
Copper	6.16	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

Native-BG01@5'
4/11/2022 4:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204204-08 (Soil)

Total Metals by 6020 B

Lead	4.17	0.031	0.25	mg/Kg	5	L611158	04/15/2022	04/18/2022	
Nickel	7.93	0.0633	0.25	"	"	"	"	"	
Selenium	0.44	0.103	0.25	"	"	"	"	"	
Silver	0.0296	0.0067	0.25	"	"	"	"	"	J
Zinc	28.2	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L611905	04/11/2022	04/20/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

Native-BG02@2.5'
4/11/2022 4:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204204-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.801	0.100	mg/L	1	B2D1224	04/12/2022	04/14/2022
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Metals by Saturated Paste by EPA 6010

Calcium	3.45	0.499	meq/L	10	[CALC]	04/12/2022	04/14/2022
Magnesium	5.06	0.823	"	"	"	"	"
Sodium	3.23	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.21		pH Units	1	B2D1324	04/13/2022	04/14/2022
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SAR by 20B Saturated Paste

SAR	1.56		SAR	1	B2D1223	04/12/2022	04/14/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.06	0.00500	mmhos/cm	1	B2D1320	04/13/2022	04/14/2022
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Total Metals by 6020 B

Arsenic	1.7	0.0855	0.25	mg/Kg	5	L611158	04/15/2022	04/18/2022
Barium	77.1	0.042	0.25	"	"	"	"	"
Cadmium	0.124	0.0259	0.25	"	"	"	"	"
Copper	8.2	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

Native-BG02@2.5'
4/11/2022 4:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204204-09 (Soil)

Total Metals by 6020 B

Lead	5.09	0.031	0.25	mg/Kg	5	L611158	04/15/2022	04/18/2022	
Nickel	10.5	0.0633	0.25	"	"	"	"	"	
Selenium	0.377	0.103	0.25	"	"	"	"	"	
Silver	0.0214	0.0067	0.25	"	"	"	"	"	J
Zinc	32.3	0.534	2.5	"	"	"	"	"	

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L611907	04/11/2022	04/20/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

Native-BG02@5'
4/11/2022 4:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204204-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.884	0.100	mg/L	1	B2D1224	04/12/2022	04/14/2022
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Metals by Saturated Paste by EPA 6010

Calcium	4.56	0.499	meq/L	10	[CALC]	04/12/2022	04/14/2022
Magnesium	6.40	0.823	"	"	"	"	"
Sodium	3.86	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.11		pH Units	1	B2D1324	04/13/2022	04/14/2022
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SAR by 20B Saturated Paste

SAR	1.65		SAR	1	B2D1223	04/12/2022	04/14/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.30	0.00500	mmhos/cm	1	B2D1320	04/13/2022	04/14/2022
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Total Metals by 6020 B

Arsenic	2.23	0.0855	0.25	mg/Kg	5	L611158	04/15/2022	04/18/2022
Barium	130	0.042	0.25	"	"	"	"	"
Cadmium	0.147	0.0259	0.25	"	"	"	"	"
Copper	8.89	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

Native-BG02@5'
4/11/2022 4:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204204-10 (Soil)

Total Metals by 6020 B

Lead	5.92	0.031	0.25	mg/Kg	5	L611158	04/15/2022	04/18/2022	
Nickel	10.3	0.0633	0.25	"	"	"	"	"	
Selenium	0.41	0.103	0.25	"	"	"	"	"	
Silver	0.0317	0.0067	0.25	"	"	"	"	"	J
Zinc	34.9	0.534	2.5	"	"	"	"	"	

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.252	0.517	mg/Kg	1	L611907	04/11/2022	04/20/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

TB-BG01@6'
4/11/2022 4:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204204-11 (Soil)

Boron (DTPA Sorbitol)

Boron	0.0997	0.0997	mg/L	1	B2D1224	04/12/2022	04/14/2022	U
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Metals by Saturated Paste by EPA 6010

Calcium	0.679	0.499	meq/L	10	[CALC]	04/12/2022	04/14/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.535	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.34	pH Units	1	B2D1324	04/13/2022	04/14/2022
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SAR by 20B Saturated Paste

SAR	0.739	SAR	1	B2D1223	04/12/2022	04/14/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.170	0.00500	mmhos/cm	1	B2D1320	04/13/2022	04/14/2022
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Total Metals by 6020 B

Arsenic	2	0.0855	0.25	mg/Kg	5	L611158	04/15/2022	04/18/2022
Barium	44.5	0.042	0.25	"	"	"	"	"
Cadmium	0.0741	0.0259	0.25	"	"	"	"	J
Copper	6.43	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

TB-BG01@6'
4/11/2022 4:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204204-11 (Soil)

Total Metals by 6020 B

Lead	4.71	0.031	0.25	mg/Kg	5	L611158	04/15/2022	04/18/2022	
Nickel	6.65	0.0633	0.25	"	"	"	"	"	
Selenium	0.381	0.103	0.25	"	"	"	"	"	
Silver	0.0148	0.0067	0.25	"	"	"	"	"	J
Zinc	424	2.14	10	"	20	"	"	"	

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L611907	04/11/2022	04/20/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

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 B2D1117 - EPA 3550B										
Blank (B2D1117-BLK1)					Prepared: 04/11/2022 Analyzed: 04/12/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		98.2	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2D1117 - EPA 3550B

LCS (B2D1117-BS1)

Prepared: 04/11/2022 Analyzed: 04/12/2022

Diesel (C10-C28)	889	50.0	mg/kg	1000		88.9	70-130			
Residual Range Organics (C28-C40)	974	200	"	1000		97.4	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2D1117 - EPA 3550B

Matrix Spike (B2D1117-MS1)		Source: Y204203-01			Prepared: 04/11/2022 Analyzed: 04/12/2022					
Diesel (C10-C28)	962	50.0	mg/kg	1000	ND	96.2	70-130			
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2D1117 - EPA 3550B

Matrix Spike Dup (B2D1117-MSD1)		Source: Y204203-01			Prepared: 04/11/2022 Analyzed: 04/12/2022					
Diesel (C10-C28)	989	50.0	mg/kg	1000	ND	98.9	70-130	2.78	35	
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130	0.676	35	
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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Brian Sulzberger
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Project: KMG - Hunter, Hunter 9&16-32 OSA

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 B2D1118 - EPA 5030 (soil)										
Blank (B2D1118-BLK1)					Prepared: 04/11/2022 Analyzed: 04/11/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.2		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	93.0		70-130			

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Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

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 B2D1118 - EPA 5030 (soil)										
LCS (B2D1118-BS1)					Prepared: 04/11/2022 Analyzed: 04/11/2022					
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Benzene	0.0977	0.00200	"	0.100		97.7	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.100	0.0100	"	0.100		100	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.104	0.00200	"	0.100		104	70-130			
m,p-Xylene	0.202	0.00400	"	0.200		101	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		101	70-130			

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Brian Sulzberger
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Project: KMG - Hunter, Hunter 9&16-32 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2D1118 - EPA 5030 (soil)

Matrix Spike (B2D1118-MS1)		Source: Y204203-01			Prepared: 04/11/2022 Analyzed: 04/11/2022					
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	ND	106	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130			
Benzene	0.109	0.00200	"	0.100	ND	109	70-130			
Ethylbenzene	0.0986	0.00200	"	0.100	ND	98.6	70-130			
Naphthalene	0.109	0.0100	"	0.100	0.00190	107	70-130			
Toluene	0.107	0.00200	"	0.100	ND	107	70-130			
o-Xylene	0.108	0.00200	"	0.100	ND	108	70-130			
m,p-Xylene	0.219	0.00400	"	0.200	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	70-130			

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Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

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 B2D1118 - EPA 5030 (soil)										
Matrix Spike Dup (B2D1118-MSD1)		Source: Y204203-01			Prepared: 04/11/2022 Analyzed: 04/11/2022					
1,2,4-Trimethylbenzene	0.114	0.00200	mg/kg	0.100	ND	114	70-130	7.36	20	
1,3,5-Trimethylbenzene	0.118	0.00200	"	0.100	ND	118	70-130	8.44	20	
Benzene	0.137	0.00200	"	0.100	ND	137	70-130	22.2	20	QM-07
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	2.96	20	
Naphthalene	0.131	0.0100	"	0.100	0.00190	129	70-130	18.7	20	
Toluene	0.155	0.00200	"	0.100	ND	155	70-130	36.6	20	QM-07
o-Xylene	0.113	0.00200	"	0.100	ND	113	70-130	4.17	20	
m,p-Xylene	0.202	0.00400	"	0.200	ND	101	70-130	7.83	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	70-130			

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Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2D1212 - Default Prep Metals

Blank (B2D1212-BLK1)

Prepared: 04/12/2022 Analyzed: 04/13/2022

Boron	ND	0.100	mg/L							U
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Duplicate (B2D1212-DUP1)

Source: Y204196-03

Prepared: 04/12/2022 Analyzed: 04/13/2022

Boron	0.241	0.101	mg/L		0.281			15.0	50	
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Batch B2D1224 - Default Prep Metals

Blank (B2D1224-BLK1)

Prepared: 04/12/2022 Analyzed: 04/14/2022

Boron	ND	0.100	mg/L							U
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Duplicate (B2D1224-DUP1)

Source: Y204204-02

Prepared: 04/12/2022 Analyzed: 04/14/2022

Boron	0.199	0.0995	mg/L		0.160			21.7	50	
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Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2D1320 - NO PREP										
Blank (B2D1320-BLK1)					Prepared: 04/13/2022 Analyzed: 04/14/2022					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B2D1320-DUP1)					Source: Y204203-08 Prepared: 04/13/2022 Analyzed: 04/14/2022					
Specific Conductance (EC)	0.627	0.00500	mmhos/cm		0.677			7.56	25	
Batch B2D1324 - NO PREP										
Duplicate (B2D1324-DUP1)					Source: Y204203-08 Prepared: 04/13/2022 Analyzed: 04/14/2022					
pH	8.00		pH Units		8.21			2.59	25	

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Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L611209 - 3550B

MSD (L 92038-MSD-L611209)		Source: 92038			Prepared: 04/16/2022 Analyzed: 04/20/2022					
Dibenz(a,h)anthracene	0.0893	0.000614	mg/Kg	0.166	92038	53.7	30-130	1.8	30	
Benzo(a)anthracene	0.0934	0.000493	"	0.166	0.00123	55.5	30-130	3.1	30	
Benzo(b)fluoranthene	0.0869	0.000585	"	0.166	0.000839	51.8	30-130	1	30	
Benzo(k)fluoranthene	0.0697	0.000437	"	0.166	0.00049	41.6	30-130	7.2	30	
Chrysene	0.0821	0.000624	"	0.166	0.00125	48.7	30-130	1.2	30	
Fluoranthene	0.0802	0.000394	"	0.166	0.00328	46.3	30-130	3	30	
Fluorene	0.125	0.000286	"	0.166	0.0138	66.9	30-130	22	30	
Indeno(1,2,3-cd)pyrene	0.0946	0.000627	"	0.166	92038	56.9	30-130	7.5	30	
Naphthalene	0.0862	0.000484	"	0.166	0.00244	50.4	30-130	2	30	
Pyrene	0.112	0.000643	"	0.166	0.00537	64.2	30-130	7.7	30	
Acenaphthene	0.0869	0.000304	"	0.166	0.0072	48	30-130	14	30	
Anthracene	0.0853	0.000334	"	0.166	0.00137	50.5	30-130	11.2	30	
1-Methylnaphthalene	0.43	0.00728	"	0.166	0.0908	204	30-130	61.5	30	*
2-Methylnaphthalene	0.724	0.0129	"	0.166	0.151	345	30-130	72.6	30	*
Benzo(a)pyrene	0.0974	0.000468	"	0.166	0.000636	58.2	30-130	14	30	
Surrogate: Nitrobenzene-d5	38.3		"	0.331	114	38.3	29-110			
Surrogate: 2-Fluorobiphenyl	48.3		"	0.331	141	48.3	33-115			
Surrogate: 4-Terphenyl-d14	59.5		"	0.331	163	59.5	33-122			

MS (L 92038-MS-L611209)		Source: 92038			Prepared: 04/16/2022 Analyzed: 04/20/2022					
Pyrene	0.121	0.000643	mg/Kg	0.165	0.00537	70	30-130			
Naphthalene	0.088	0.000484	"	0.165	0.00244	51.8	30-130			
Indeno(1,2,3-cd)pyrene	0.102	0.000627	"	0.165	92038	61.8	30-130			
Fluorene	0.156	0.000286	"	0.165	0.0138	86.1	30-130			
Fluoranthene	0.0827	0.000394	"	0.165	0.00328	48.1	30-130			
Chrysene	0.0811	0.000624	"	0.165	0.00125	48.3	30-130			
Acenaphthene	0.1	0.000304	"	0.165	0.0072	56.2	30-130			

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Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L611209 - 3550B

MS (L 92038-MS-L611209)		Source: 92038			Prepared: 04/16/2022 Analyzed: 04/20/2022					
Dibenz(a,h)anthracene	0.091	0.000614	mg/Kg	0.165	92038	55.1	30-130			
Benzo(k)fluoranthene	0.0648	0.000437	"	0.165	0.00049	38.9	30-130			
1-Methylnaphthalene	0.812	0.00728	"	0.165	0.0908	437	30-130			*
Anthracene	0.0762	0.000334	"	0.165	0.00137	45.3	30-130			
Benzo(a)anthracene	0.0905	0.000493	"	0.165	0.00123	54.1	30-130			
Benzo(a)pyrene	0.0846	0.000468	"	0.165	0.000636	50.8	30-130			
Benzo(b)fluoranthene	0.086	0.000585	"	0.165	0.000839	51.6	30-130			
2-Methylnaphthalene	1.55	0.0129	"	0.165	0.151	848	30-130			*
Surrogate: Nitrobenzene-d5	38.4		"	0.33	114	38.4	29-110			
Surrogate: 2-Fluorobiphenyl	43		"	0.33	141	43	33-115			
Surrogate: 4-Terphenyl-d14	57.5		"	0.33	163	57.5	33-122			

LCS (LCS-L611209)		Prepared: 04/16/2022 Analyzed: 04/20/2022								
Pyrene	0.0955	0.000643	mg/Kg	0.167		57.1	30-130			
Naphthalene	0.0784	0.000484	"	0.167		46.9	30-130			
Indeno(1,2,3-cd)pyrene	0.129	0.000627	"	0.167		77.2	30-130			
Fluoranthene	0.0947	0.000394	"	0.167		56.7	30-130			
Fluorene	0.086	0.000286	"	0.167		51.4	30-130			
1-Methylnaphthalene	0.0848	0.000364	"	0.167		50.7	30-130			
2-Methylnaphthalene	0.0815	0.000645	"	0.167		48.8	30-130			
Dibenz(a,h)anthracene	0.116	0.000614	"	0.167		69.4	30-130			
Acenaphthene	0.0773	0.000304	"	0.167		46.2	30-130			
Benzo(k)fluoranthene	0.0906	0.000437	"	0.167		54.2	30-130			
Benzo(a)anthracene	0.0861	0.000493	"	0.167		51.5	30-130			
Benzo(a)pyrene	0.0887	0.000468	"	0.167		53.1	30-130			
Benzo(b)fluoranthene	0.0845	0.000585	"	0.167		50.5	30-130			
Anthracene	0.0922	0.000334	"	0.167		55.2	30-130			

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Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L611209 - 3550B

LCS (LCS-L611209)

Prepared: 04/16/2022 Analyzed: 04/20/2022

Chrysene	0.0813	0.000624	mg/Kg	0.167		48.6	30-130			
Surrogate: Nitrobenzene-d5	42.3		"	0.333		42.3	29-110			
Surrogate: 4-Terphenyl-d14	60.6		"	0.333		60.6	33-122			
Surrogate: 2-Fluorobiphenyl	56.4		"	0.333		56.4	33-115			

LRB (LRB-L611209)

Prepared: 04/16/2022 Analyzed: 04/20/2022

Fluorene	ND	0.00067	mg/Kg				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	39.9		"	0.333		39.9	29-110			
Surrogate: 2-Fluorobiphenyl	51.9		"	0.333		51.9	33-115			
Surrogate: 4-Terphenyl-d14	54		"	0.333		54	33-122			

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Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L611158 - 3050B

MSD (L 92121-MSD-L611158)		Source: 92121			Prepared: 04/15/2022 Analyzed: 04/18/2022					
Selenium	4.09	0.103	mg/Kg	4.96	0.585	71	75-125	7	80	*
Barium	119	0.042	"	4.96	110	181	75-125	5.7	80	*
Cadmium	0.632	0.0259	"	0.496	0.192	89	75-125	2.4	80	
Copper	13.5	0.0806	"	2.48	11.3	89	75-125	1.4	80	
Nickel	15.8	0.0633	"	2.48	13.2	105	75-125	2.5	80	
Lead	16.3	0.031	"	2.48	14.6	69	75-125	3.6	80	*
Silver	0.555	0.0067	"	0.496	0.0564	101	75-125	7.8	80	
Zinc	79.6	0.534	"	24.8	52.8	108	75-125	2.1	80	
Arsenic	5.88	0.0855	"	2.48	4.08	73	75-125	4.3	80	*
MS (L 92121-MS-L611158)		Source: 92121			Prepared: 04/15/2022 Analyzed: 04/18/2022					
Cadmium	0.617	0.0259	mg/Kg	0.47	0.192	90	75-125			
Zinc	77.9	0.534	"	23.5	52.8	107	75-125			
Silver	0.513	0.0067	"	0.47	0.0564	97	75-125			
Selenium	3.81	0.103	"	4.7	0.585	69	75-125			*
Nickel	16.2	0.0633	"	2.35	13.2	128	75-125			*
Copper	13.7	0.0806	"	2.35	11.3	102	75-125			
Barium	126	0.042	"	4.7	110	340	75-125			*
Arsenic	5.63	0.0855	"	2.35	4.08	66	75-125			*
Lead	16.9	0.031	"	2.35	14.6	98	75-125			
LCS (LCS-L611158)		Prepared: 04/15/2022 Analyzed: 04/18/2022								
Nickel	2.42	0.0633	mg/Kg	2.5		97	80-120			
Arsenic	2.45	0.0855	"	2.5		98	80-120			
Silver	0.517	0.0067	"	0.5		103	80-120			
Zinc	26.3	0.534	"	25		105	80-120			
Selenium	4.79	0.103	"	5		96	80-120			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L611158 - 3050B

LCS (LCS-L611158)

Prepared: 04/15/2022 Analyzed: 04/18/2022

Lead	2.47	0.031	mg/Kg	2.5		99	80-120			
Copper	2.46	0.0806	"	2.5		98	80-120			
Barium	5.05	0.042	"	5		101	80-120			
Cadmium	0.506	0.0259	"	0.5		101	80-120			

LRB (LRB-L611158)

Prepared: 04/15/2022 Analyzed: 04/18/2022

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

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L610848 - 3050B										
MSD (L 92116-MSD-L610848)			Source: 92116		Prepared: 04/14/2022 Analyzed: 04/18/2022					
Lead	8.64	0.031	mg/Kg	2.44	7.18	60	75-125	20.6	80	I, *
Zinc	68.7	0.534	"	24.4	28.6	164	75-125	32.4	80	*
Cadmium	1.01	0.0259	"	0.488	0.0921	188	75-125	68.7	80	*
Arsenic	9.99	0.0855	"	2.44	2.15	321	75-125	96.8	80	*
Barium	97.3	0.042	"	4.88	69.4	571	75-125	58.4	80	I, *
Copper	12.7	0.0806	"	2.44	7.11	229	75-125	42.1	80	I, *
Nickel	13.4	0.0633	"	2.44	6.73	273	75-125	41	80	*
Selenium	3.55	0.103	"	4.88	0.394	65	75-125	1.9	80	*
Silver	0.542	0.0067	"	0.488	0.0197	107	75-125	16.1	80	
MS (L 92116-MS-L610848)			Source: 92116		Prepared: 04/14/2022 Analyzed: 04/18/2022					
Silver	0.461	0.0067	mg/Kg	0.462	0.0197	95	75-125			
Selenium	3.62	0.103	"	4.62	0.394	70	75-125			*
Nickel	8.84	0.0633	"	2.31	6.73	91	75-125			
Lead	7.02	0.031	"	2.31	7.18	NR	75-125			I, *
Copper	8.28	0.0806	"	2.31	7.11	51	75-125			I, *
Cadmium	0.493	0.0259	"	0.462	0.0921	87	75-125			
Arsenic	3.47	0.0855	"	2.31	2.15	57	75-125			*
Zinc	49.5	0.534	"	23.1	28.6	90	75-125			
Barium	53.3	0.042	"	4.62	69.4	NR	75-125			I, *
LCS (LCS-L610848)			Prepared: 04/14/2022 Analyzed: 04/18/2022							
Copper	2.48	0.0806	mg/Kg	2.5		99	80-120			
Selenium	5.22	0.103	"	5		104	80-120			
Silver	0.522	0.0067	"	0.5		104	80-120			
Nickel	2.49	0.0633	"	2.5		100	80-120			
Lead	2.44	0.031	"	2.5		98	80-120			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L610848 - 3050B

LCS (LCS-L610848)

Prepared: 04/14/2022 Analyzed: 04/18/2022

Zinc	25.9	0.534	mg/Kg	25		104	80-120			
Barium	5.17	0.042	"	5		103	80-120			
Arsenic	2.57	0.0855	"	2.5		103	80-120			
Cadmium	0.494	0.0259	"	0.5		99	80-120			

LRB (LRB-L610848)

Prepared: 04/14/2022 Analyzed: 04/18/2022

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

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L611907 -										
DUP (L 92062-DUP)		Source: Y204204-09			Prepared: Analyzed: 04/20/2022					
Chromium, Hexavalent	ND	0.245	mg/Kg		92062	-		0	20	
MS (L 92062-MS)		Source: Y204204-09			Prepared: Analyzed: 04/20/2022					
Chromium, Hexavalent	3.82	0.244	mg/Kg	7.92	92062	48	75-125			*
LCS (LCS)					Prepared: Analyzed: 04/20/2022					
Chromium, Hexavalent	6.09	0.244	mg/Kg	8		76	75-125			
LRB (LRB)					Prepared: Analyzed: 04/20/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg							

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 31403177.022.24.05
Project: KMG - Hunter, Hunter 9&16-32 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L611905 -										
DUP (L 92049-DUP)		Source: 92049			Prepared: Analyzed: 04/20/2022					
Chromium, Hexavalent	ND	1.26	mg/Kg		92049	-		0	20	
MS (L 92049-MS)		Source: 92049			Prepared: Analyzed: 04/20/2022					
Chromium, Hexavalent	0.669	0.488	mg/Kg	7.96	92049	0	75-125			*

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.022.24.05

Project: KMG - Hunter, Hunter 9&16-32 OSA

Notes and Definitions

U Sample is Non-Detect.

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

J Estimated Value. Analyte below reported quantitation limit.

I Recoveries affected by interferences or high background

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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



June 21, 2022

WSP USA

Rob Rebel

4600 W. 60th Ave.

Arvada

CO

80003

**Project Name - KMG - Hunter, Hunter 9 & 16-32
OSA FA**

Project Number - 31403177.022.24

Attached are your analytical results for KMG - Hunter, Hunter 9 & 16-32 OSA FA received by Origins Laboratory, Inc. June 06, 2022. This project is associated with Origins project number Y206149-01.

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

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

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

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

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

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



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

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Rob Rebel

Project Number: 31403177.022.24

Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01-N01@5'	Y206149-01	Soil	June 6, 2022 14:00	06/06/2022 16:25
AST01-E01@5'	Y206149-02	Soil	June 6, 2022 14:02	06/06/2022 16:25
AST01-S01@5'	Y206149-03	Soil	June 6, 2022 14:04	06/06/2022 16:25
AST01-W01@5'	Y206149-04	Soil	June 6, 2022 14:06	06/06/2022 16:25
AST01-B01@6'	Y206149-05	Soil	June 6, 2022 14:08	06/06/2022 16:25
SEP01-Outlet@N01@5'	Y206149-06	Soil	June 6, 2022 14:20	06/06/2022 16:25
SEP01-Outlet@E01@5'	Y206149-07	Soil	June 6, 2022 14:22	06/06/2022 16:25
SEP01-Outlet@S01@5'	Y206149-08	Soil	June 6, 2022 14:24	06/06/2022 16:25
SEP01-Outlet@W01@5'	Y206149-09	Soil	June 6, 2022 14:26	06/06/2022 16:25
SEP01-Outlet@B01@7'	Y206149-10	Soil	June 6, 2022 14:28	06/06/2022 16:25
PH01-N01@5'	Y206149-11	Soil	June 6, 2022 14:50	06/06/2022 16:25
PH01-E01@5'	Y206149-12	Soil	June 6, 2022 14:52	06/06/2022 16:25
PH01-S01@5'	Y206149-13	Soil	June 6, 2022 14:54	06/06/2022 16:25
PH01-W01@5'	Y206149-14	Soil	June 6, 2022 14:56	06/06/2022 16:25

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.

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.24

Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PH01-B01@9'	Y206149-15	Soil	June 6, 2022 14:58	06/06/2022 16:25
GW02	Y206149-17	Water	June 6, 2022 15:10	06/06/2022 16:25

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.

Jordan A. Bynon, Project Manager

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Rob Rebel

Project Number: 31403177.022.24

Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

www.originslaboratory.com

ORIGINS
LABORATORY, INC

page 1 of 2

400649

Client: WSP
Address: 4600 W 60th Ave
Arvada CO 80003
Telephone Number: _____
Email Address: KMG Group
Project Manager: Rob Rebel
Project Name: Hunter, Hunter 9 & 16-32 OSA Facility
Project Number: 31403177.022.24
Samples Collected By: RS

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis					Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	Benzene	TMBS	Neopentylglycol		1-methoxyethanol
AST1-Noies	6-6-22	1400	2	X						X	X	X	X	X	X	Boil down for residue
AST1-Eoles		1402	2	X						X	X	X	X	X	X	
AST1-Soles		1404	2	X						X	X	X	X	X	X	
AST1-Woles		1406	2	X						X	X	X	X	X	X	
AST1-Bales		1408	2	X						X	X	X	X	X	X	
Sep1-otlet-Woles		1420	2	X						X	X	X	X	X	X	
Sep1-otlet-Eoles		1422	2	X						X	X	X	X	X	X	
Sep1-otlet-Soles		1424	2	X						X	X	X	X	X	X	
Sep1-otlet-Woles		1426	2	X						X	X	X	X	X	X	
Sep1-otlet-Bales		1428	2	X						X	X	X	X	X	X	
Relinquished By: <u>Jordan Bynon</u>	Date: <u>6-6-22</u>	Time: <u>1628</u>	Received By: <u>SH</u>	Date: <u>6-6-22</u>	Time: <u>1628</u>	Relinquished By: <u>SH</u>	Date: <u>6-6-22</u>	Time: <u>1628</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard							

Date Results Needed

Temp Received: 26.7

Origins Laboratory, Inc.

Jordan Bynon

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

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Rob Rebel

Project Number: 31403177.022.24

Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 12001491

Client: WSP

Client Project ID: Hunter, Hunter 9 & 16-32

Checklist Completed by: OKH

Shipped Via: HD

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

Date/time completed: 6/16/12

Airbill #: 123

Matrix(s) Received: (Check all that apply): 1 Soil/Solid 1 Water Other: _____

(Describe)

Cooler Number/Temperature: 1 20.7 °C _____ °C _____ °C _____ °C

Thermometer ID: 1004

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

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

Reviewed by (Project Manager)

Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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

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

Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

AST01-N01@5'

6/6/2022 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y206149-01 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2F0624	06/06/2022	06/06/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	97.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.2 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L620913	06/10/2022	06/14/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	50.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	73.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	61.6 %	29-110	"	"	"

Total Metals by 6020B

Barium	76.7	0.042	0.25	mg/Kg	5	L620934	"	06/15/2022
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Origins Laboratory, Inc.



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

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

Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

AST01-E01@5'

6/6/2022 2:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y206149-02 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2F0624	06/06/2022	06/06/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	96.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.4 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L620913	06/10/2022	06/14/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	47.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	69.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	58.6 %	29-110	"	"	"

Total Metals by 6020B

Barium	79.5	0.042	0.25	mg/Kg	5	L620934	"	06/15/2022
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Origins Laboratory, Inc.



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

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

Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

AST01-S01@5'

6/6/2022 2:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y206149-03 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2F0624	06/06/2022	06/06/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130	"	"	"
Surrogate: Toluene-d8	93.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L620913	06/10/2022	06/14/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	53.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	72.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	64.8 %	29-110	"	"	"

Total Metals by 6020B

Barium	135	0.042	0.25	mg/Kg	5	L620934	"	06/15/2022
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Origins Laboratory, Inc.



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

Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

AST01-W01@5'

6/6/2022 2:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206149-04 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2F0624	06/06/2022	06/06/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130	"	"	"
Surrogate: Toluene-d8	94.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L620913	06/10/2022	06/14/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	50.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	72.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	61.3 %	29-110	"	"	"

Total Metals by 6020B

Barium	79.1	0.042	0.25	mg/Kg	5	L620934	"	06/15/2022
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Origins Laboratory, Inc.



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

Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

AST01-B01@6'

6/6/2022 2:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y206149-05 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2F0624	06/06/2022	06/06/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130	"	"	"
Surrogate: Toluene-d8	94.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.4 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L620913	06/10/2022	06/14/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	44 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	65.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	54.1 %	29-110	"	"	"

Table 915 metals by EPA 6020B

Barium	96.2	10.0	mg/kg	1	B2F2017	06/20/2022	06/20/2022
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Origins Laboratory, Inc.



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

Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

SEP01-Outlet@N01@5'

6/6/2022 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y206149-06 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2F0624	06/06/2022	06/06/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130	"	"	"
Surrogate: Toluene-d8	94.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.5 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.000588	0.000364	0.00067	mg/Kg	1	L620913	06/10/2022	06/14/2022	J
2-Methylnaphthalene	0.00184	0.000645	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	47.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	74.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	57.8 %	29-110	"	"	"

Origins Laboratory, Inc.



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

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

Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

SEP01-Outlet@E01@5'

6/6/2022 2:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y206149-07 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.249		0.00200	mg/kg	1	B2F0624	06/06/2022	06/06/2022	
1,3,5-Trimethylbenzene	0.0962		0.00200	"	"	"	"	"	
Benzene	0.0452		0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	114 %		70-130			"	"	"	
Surrogate: Toluene-d8	112 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0702	0.000364	0.00067	mg/Kg	1	L620913	06/10/2022	06/14/2022	
2-Methylnaphthalene	0.115	0.000645	0.00067	"	"	"	"	"	
Naphthalene	0.0278	0.000484	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	45.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	69.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	55.3 %		29-110			"	"	"	

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.24

Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

SEP01-Outlet@S01@5'

6/6/2022 2:24:00PM

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

Y206149-08 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	1.74		0.0500	mg/kg	25	B2F0624	06/06/2022	06/06/2022	
1,3,5-Trimethylbenzene	0.0680		0.0500	"	"	"	"	"	
Benzene	0.168		0.0500	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			"	"	"	
Surrogate: Toluene-d8	105 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

PAH by 8270D-SIM

1-Methylnaphthalene	0.282	0.000364	0.00067	mg/Kg	1	L621130	06/13/2022	06/14/2022	
2-Methylnaphthalene	0.43	0.00645	0.0067	"	10	"	"	"	
Naphthalene	0.0702	0.000484	0.00067	"	1	"	"	"	

Surrogate: 2-Fluorobiphenyl	65.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	72.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	66.7 %		29-110			"	"	"	

Origins Laboratory, Inc.



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

Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

SEP01-Outlet@W01@5'

6/6/2022 2:26:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y206149-09 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	11.4		0.500	mg/kg	250	B2F0624	06/06/2022	06/06/2022	
1,3,5-Trimethylbenzene	5.51		0.500	"	"	"	"	"	
Benzene	0.00434		0.00200	"	1	"	"	06/07/2022	

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	06/07/2022	
Surrogate: Toluene-d8	131 %		70-130			"	"	"	S-04
Surrogate: 4-Bromofluorobenzene	98.5 %		70-130			"	"	"	

PAH by 8270D-SIM

1-Methylnaphthalene	1.05	0.00728	0.0134	mg/Kg	20	L621130	06/13/2022	06/14/2022	
2-Methylnaphthalene	1.19	0.0129	0.0134	"	"	"	"	"	
Naphthalene	0.247	0.000484	0.00067	"	1	"	"	"	

Surrogate: 2-Fluorobiphenyl	61.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	74 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	63.9 %		29-110			"	"	"	

Origins Laboratory, Inc.



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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.24

Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

SEP01-Outlet@B01@7'

6/6/2022 2:28:00PM

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

Y206149-10 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	5.74		0.500	mg/kg	250	B2F0624	06/06/2022	06/06/2022	
1,3,5-Trimethylbenzene	2.15		0.500	"	"	"	"	"	
Benzene	1.75		0.500	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.2 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

PAH by 8270D-SIM

1-Methylnaphthalene	0.461	0.00728	0.0134	mg/Kg	20	L621130	06/13/2022	06/14/2022	
2-Methylnaphthalene	0.928	0.0129	0.0134	"	"	"	"	"	
Naphthalene	0.251	0.000484	0.00067	"	1	"	"	"	

Surrogate: 2-Fluorobiphenyl	54.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	63.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	57.8 %		29-110			"	"	"	

Origins Laboratory, Inc.



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

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

Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

PH01-N01@5'

6/6/2022 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206149-11 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2F0624	06/06/2022	06/07/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %		70-130			"	"	"	
Surrogate: Toluene-d8	93.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.7 %		70-130			"	"	"	

PAH by 8270D-SIM

1-Methylnaphthalene	0.0135	0.000364	0.00067	mg/Kg	1	L621130	06/13/2022	06/14/2022	
2-Methylnaphthalene	0.000865	0.000645	0.00067	"	"	"	"	"	
Naphthalene	0.00143	0.000484	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	54.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	70.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	58 %		29-110			"	"	"	

Total Metals by 6020B

Barium	92.8	0.042	0.25	mg/Kg	5	L620934	06/10/2022	06/15/2022	
Selenium	0.612	0.103	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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

Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

PH01-E01@5'

6/6/2022 2:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206149-12 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.364		0.0500	mg/kg	25	B2F0624	06/06/2022	06/07/2022
1,3,5-Trimethylbenzene	0.0162		0.00200	"	1	"	"	06/07/2022

Surrogate: 1,2-Dichloroethane-d4	120 %		70-130			"	"	"
Surrogate: Toluene-d8	103 %		70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	89.4 %		70-130			"	"	"

PAH by 8270D-SIM

1-Methylnaphthalene	0.037	0.000364	0.00067	mg/Kg	1	L621130	06/13/2022	06/14/2022
2-Methylnaphthalene	0.00289	0.000645	0.00067	"	"	"	"	"
Naphthalene	0.00545	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	52 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	69.5 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	51.7 %		29-110			"	"	"

Total Metals by 6020B

Barium	112	0.042	0.25	mg/Kg	5	L620934	06/10/2022	06/15/2022
Selenium	0.545	0.103	0.25	"	"	"	"	"

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.

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

Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

PH01-S01@5'

6/6/2022 2:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206149-13 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2F0624	06/06/2022	06/07/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	120 %	70-130	"	"	"
Surrogate: Toluene-d8	92.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.0 %	70-130	"	"	"

PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L621130	06/13/2022	06/14/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	55 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	75.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	59.6 %	29-110	"	"	"

Total Metals by 6020B

Barium	109	0.042	0.25	mg/Kg	5	L620934	06/10/2022	06/15/2022
Selenium	0.741	0.103	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

PH01-W01@5'

6/6/2022 2:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206149-14 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2F0624	06/06/2022	06/07/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130	"	"	"
Surrogate: Toluene-d8	93.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.4 %	70-130	"	"	"

PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L621130	06/13/2022	06/14/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	49.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	71.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	54.5 %	29-110	"	"	"

Total Metals by 6020B

Barium	93.1	0.042	0.25	mg/Kg	5	L620964	06/10/2022	06/15/2022
Selenium	0.614	0.103	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

PH01-B01@9'

6/6/2022 2:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206149-15 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2F0624	06/06/2022	06/07/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	123 %	70-130	"	"	"
Surrogate: Toluene-d8	94.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.9 %	70-130	"	"	"

PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L621130	06/13/2022	06/14/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	46.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	69.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	55.5 %	29-110	"	"	"

Total Metals by 6020B

Barium	83.4	0.042	0.25	mg/Kg	5	L620964	06/10/2022	06/15/2022
Selenium	0.729	0.103	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

GW02

6/6/2022 3:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y206149-17 (Water)

Anions by IC 300.0

Chloride	32.6	31.2	mg/L	125	B2F0810	06/08/2022	06/08/2022
Sulfate	493	31.2	"	"	"	"	"

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	55.0	2.00	ug/L	1	B2F0503	06/07/2022	06/07/2022
1,3,5-Trimethylbenzene	19.2	2.00	"	"	"	"	"
Benzene	44.8	1.00	"	"	"	"	"
Ethylbenzene	7.37	1.00	"	"	"	"	"
Naphthalene	2.93	2.00	"	"	"	"	"
Toluene	ND	1.00	"	"	"	"	"
Xylenes, total	40.5	1.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	97.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	79.8 %	70-130	"	"	"

Total Dissolved Solids by 2540C

Total Dissolved Solids	1310	5.00	mg/L	1	B2F0710	06/07/2022	06/07/2022
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4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.24

Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F0503 - EPA 5030B (Water)

Blank (B2F0503-BLK1)

Prepared: 06/05/2022 Analyzed: 06/07/2022

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.9	70-130			

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Jordan A. Bynon, Project Manager

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Rob Rebel

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F0503 - EPA 5030B (Water)

LCS (B2F0503-BS1)

Prepared: 06/05/2022 Analyzed: 06/07/2022

1,2,4-Trimethylbenzene	48.7	2.00	ug/L	50.0		97.3	70-130			
1,3,5-Trimethylbenzene	49.2	2.00	"	50.0		98.3	70-130			
Benzene	53.1	1.00	"	50.0		106	70-130			
Ethylbenzene	51.2	1.00	"	50.0		102	70-130			
m,p-Xylene	101	2.00	"	100		101	70-130			
Naphthalene	45.4	2.00	"	50.0		90.8	70-130			
o-Xylene	50.7	1.00	"	50.0		101	70-130			
Toluene	54.3	1.00	"	50.0		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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Rob Rebel

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F0503 - EPA 5030B (Water)

Matrix Spike (B2F0503-MS1)		Source: Y206102-01			Prepared: 06/05/2022 Analyzed: 06/07/2022					
1,2,4-Trimethylbenzene	50.5	2.00	ug/L	50.0	ND	101	70-130			
1,3,5-Trimethylbenzene	50.7	2.00	"	50.0	ND	101	70-130			
Benzene	51.6	1.00	"	50.0	ND	103	70-130			
Ethylbenzene	52.6	1.00	"	50.0	ND	105	70-130			
m,p-Xylene	105	2.00	"	100	ND	105	70-130			
Naphthalene	45.8	2.00	"	50.0	0.190	91.3	70-130			
o-Xylene	51.5	1.00	"	50.0	ND	103	70-130			
Toluene	51.9	1.00	"	50.0	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	70-130			
Surrogate: Toluene-d8	57		"	62.5		91.9	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		105	70-130			

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Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F0503 - EPA 5030B (Water)

Matrix Spike Dup (B2F0503-MSD1)		Source: Y206102-01			Prepared: 06/05/2022 Analyzed: 06/07/2022					
1,2,4-Trimethylbenzene	51.4	2.00	ug/L	50.0	ND	103	70-130	1.81	20	
1,3,5-Trimethylbenzene	51.8	2.00	"	50.0	ND	104	70-130	2.21	20	
Benzene	53.2	1.00	"	50.0	ND	106	70-130	3.24	20	
Ethylbenzene	52.2	1.00	"	50.0	ND	104	70-130	0.782	20	
m,p-Xylene	104	2.00	"	100	ND	104	70-130	0.767	20	
Naphthalene	49.4	2.00	"	50.0	0.190	98.4	70-130	7.46	20	
o-Xylene	52.3	1.00	"	50.0	ND	105	70-130	1.46	20	
Toluene	54.5	1.00	"	50.0	ND	109	70-130	4.89	20	
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.1	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F0624 - EPA 5030 (soil)

Blank (B2F0624-BLK1)

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	104		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	96.5		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.7		70-130			

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Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F0624 - EPA 5030 (soil)

LCS (B2F0624-BS1)

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

1,2,4-Trimethylbenzene	0.0979	0.00200	mg/kg	0.100		97.9	70-130			
1,3,5-Trimethylbenzene	0.0976	0.00200	"	0.100		97.6	70-130			
Benzene	0.0941	0.00200	"	0.100		94.1	70-130			
Ethylbenzene	0.0977	0.00200	"	0.100		97.7	70-130			
Naphthalene	0.108	0.0100	"	0.100		108	70-130			
Toluene	0.0867	0.00200	"	0.100		86.7	70-130			
o-Xylene	0.0986	0.00200	"	0.100		98.6	70-130			
m,p-Xylene	0.201	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Jordan A. Bynon, Project Manager

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F0624 - EPA 5030 (soil)

Matrix Spike (B2F0624-MS1)		Source: Y206149-01			Prepared: 06/06/2022 Analyzed: 06/06/2022					
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Benzene	0.102	0.00200	"	0.100	ND	102	70-130			
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Naphthalene	0.102	0.0100	"	0.100	ND	102	70-130			
Toluene	0.100	0.00200	"	0.100	ND	100	70-130			
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130			
m,p-Xylene	0.204	0.00400	"	0.200	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2F0624 - EPA 5030 (soil)										
Matrix Spike Dup (B2F0624-MSD1)		Source: Y206149-01			Prepared: 06/06/2022 Analyzed: 06/06/2022					
1,2,4-Trimethylbenzene	0.0975	0.00200	mg/kg	0.100	ND	97.5	70-130	4.49	20	
1,3,5-Trimethylbenzene	0.0963	0.00200	"	0.100	ND	96.3	70-130	5.12	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	0.593	20	
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	2.02	20	
Naphthalene	0.0946	0.0100	"	0.100	ND	94.6	70-130	7.57	20	
Toluene	0.0975	0.00200	"	0.100	ND	97.5	70-130	2.47	20	
o-Xylene	0.0975	0.00200	"	0.100	ND	97.5	70-130	3.73	20	
m,p-Xylene	0.201	0.00400	"	0.200	ND	100	70-130	1.70	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by SM 3500 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F2017 - Default Prep Metals

Blank (B2F2017-BLK1)

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

Barium ND 10.0 mg/kg

LCS (B2F2017-BS1)

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

Barium 806 10.0 mg/kg 1000 80.6 80-120

Matrix Spike (B2F2017-MS1)

Source: Y206149-05

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

Barium 769 10.0 mg/kg 851 96.2 79.1 75-125

Matrix Spike Dup (B2F2017-MSD1)

Source: Y206149-05

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

Barium 921 10.0 mg/kg 1030 96.2 80.1 75-125 18.0 20

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Jordan A. Bynon, Project Manager

WSP USA
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Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

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 B2F0710 - NO PREP										
Blank (B2F0710-BLK1)					Prepared: 06/07/2022 Analyzed: 06/07/2022					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B2F0710-BS1)					Prepared: 06/07/2022 Analyzed: 06/07/2022					
Total Dissolved Solids	985	5.00	mg/L	997		98.8	90-110			
Duplicate (B2F0710-DUP1)					Source: Y205741-09 Prepared: 06/07/2022 Analyzed: 06/07/2022					
Total Dissolved Solids	11400	5.00	mg/L		11400			0.281	10	
Batch B2F0810 - Filter .45um non acidified										
Blank (B2F0810-BLK1)					Prepared: 06/08/2022 Analyzed: 06/08/2022					
Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							
LCS (B2F0810-BS1)					Prepared: 06/08/2022 Analyzed: 06/08/2022					
Chloride	3.94	0.250	mg/L	4.00		98.4	90-110			
Sulfate	3.96	0.250	"	4.00		99.0	90-110			
Matrix Spike (B2F0810-MS1)					Source: Y206154-03 Prepared: 06/08/2022 Analyzed: 06/11/2022					
Chloride	4.10		mg/L	500	193	NR	90-110			QM-07
Sulfate	576		"	500	83.8	98.4	90-110			
Matrix Spike Dup (B2F0810-MSD1)					Source: Y206154-03 Prepared: 06/08/2022 Analyzed: 06/11/2022					
Chloride	4.13		mg/L	500	193	NR	90-110	0.686	5	QM-07
Sulfate	579		"	500	83.8	99.1	90-110	0.615	5	

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Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L620913 - 3550B

MSD (L 92392-MSD-L620913)		Source: 92392			Prepared: 06/10/2022 Analyzed: 06/14/2022					
Naphthalene	0.13	0.000484	mg/Kg	0.164	0.000579	78.9	30-130	23.7	30	
2-Methylnaphthalene	0.141	0.000645	"	0.164	0.00204	84.7	30-130	18.6	30	
1-Methylnaphthalene	0.137	0.000364	"	0.164	0.0017	82.5	30-130	16.1	30	
Surrogate: Nitrobenzene-d5	58.2		"	0.328	196	58.2	29-110			
Surrogate: 4-Terphenyl-d14	66.4		"	0.328	239	66.4	33-122			
Surrogate: 2-Fluorobiphenyl	49.3		"	0.328	167	49.3	33-115			

MS (L 92392-MS-L620913)		Source: 92392			Prepared: 06/10/2022 Analyzed: 06/14/2022					
Naphthalene	0.165	0.000484	mg/Kg	0.166	0.000579	99	30-130			
2-Methylnaphthalene	0.17	0.000645	"	0.166	0.00204	101	30-130			
1-Methylnaphthalene	0.161	0.000364	"	0.166	0.0017	95.9	30-130			
Surrogate: Nitrobenzene-d5	64		"	0.331	196	64	29-110			
Surrogate: 2-Fluorobiphenyl	53.4		"	0.331	167	53.4	33-115			
Surrogate: 4-Terphenyl-d14	74.3		"	0.331	239	74.3	33-122			

LCS (LCS-L620913)		Prepared: 06/10/2022 Analyzed: 06/14/2022								
Naphthalene	0.0834	0.000484	mg/Kg	0.167		49.9	30-130			
2-Methylnaphthalene	0.0841	0.000645	"	0.167		50.3	30-130			
1-Methylnaphthalene	0.0824	0.000364	"	0.167		49.3	30-130			
Surrogate: 4-Terphenyl-d14	80.7		"	0.333		80.7	33-122			
Surrogate: 2-Fluorobiphenyl	57.3		"	0.333		57.3	33-115			
Surrogate: Nitrobenzene-d5	69.9		"	0.333		69.9	29-110			

LRB (LRB-L620913)		Prepared: 06/10/2022 Analyzed: 06/14/2022								
1-Methylnaphthalene	ND	0.00067	mg/Kg			-				
2-Methylnaphthalene	ND	0.00067	"			-				
Naphthalene	ND	0.00067	"			-				
Surrogate: 2-Fluorobiphenyl	53.1		"	0.333		53.1	33-115			

Origins Laboratory, Inc.



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Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L620913 - 3550B

LRB (LRB-L620913)

Prepared: 06/10/2022 Analyzed: 06/14/2022

Surrogate: Nitrobenzene-d5	68.7		mg/Kg	0.333	68.7		29-110			
Surrogate: 4-Terphenyl-d14	74.4		"	0.333	74.4		33-122			

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Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L621130 - 3550B

MSD (L 93027-MSD-L621130)		Source: 93027			Prepared: 06/13/2022 Analyzed: 06/14/2022					
2-Methylnaphthalene	0.0941	0.000645	mg/Kg	0.166	93027	56.6	30-130	19.9	30	
Naphthalene	0.0952	0.000484	"	0.166	93027	57.3	30-130	17.9	30	
1-Methylnaphthalene	0.0957	0.000364	"	0.166	93027	57.6	30-130	18.3	30	
Surrogate: 4-Terphenyl-d14	104		"	0.332	213	104	33-122			
Surrogate: 2-Fluorobiphenyl	70.4		"	0.332	161	70.4	33-115			
Surrogate: Nitrobenzene-d5	72.8		"	0.332	183	72.8	29-110			

MS (L 93027-MS-L621130)		Source: 93027			Prepared: 06/13/2022 Analyzed: 06/14/2022					
Naphthalene	0.114	0.000484	mg/Kg	0.163	93027	69.9	30-130			
2-Methylnaphthalene	0.115	0.000645	"	0.163	93027	70.5	30-130			
1-Methylnaphthalene	0.115	0.000364	"	0.163	93027	70.5	30-130			
Surrogate: Nitrobenzene-d5	90.1		"	0.326	183	90.1	29-110			
Surrogate: 4-Terphenyl-d14	148		"	0.326	213	148	33-122			*
Surrogate: 2-Fluorobiphenyl	95		"	0.326	161	95	33-115			

LCS (LCS-L621130)		Prepared: 06/13/2022 Analyzed: 06/14/2022								
2-Methylnaphthalene	0.101	0.000645	mg/Kg	0.167		60.4	30-130			
1-Methylnaphthalene	0.102	0.000364	"	0.167		61	30-130			
Naphthalene	0.1	0.000484	"	0.167		59.8	30-130			
Surrogate: 4-Terphenyl-d14	98.1		"	0.333		98.1	33-122			
Surrogate: 2-Fluorobiphenyl	76.8		"	0.333		76.8	33-115			
Surrogate: Nitrobenzene-d5	76.5		"	0.333		76.5	29-110			

LRB (LRB-L621130)		Prepared: 06/13/2022 Analyzed: 06/14/2022								
Naphthalene	ND	0.00067	mg/Kg			-				
2-Methylnaphthalene	ND	0.00067	"			-				
1-Methylnaphthalene	ND	0.00067	"			-				
Surrogate: 4-Terphenyl-d14	78		"	0.333		78	33-122			

Origins Laboratory, Inc.



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

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

Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L621130 - 3550B

LRB (LRB-L621130)

Prepared: 06/13/2022 Analyzed: 06/14/2022

Surrogate: 2-Fluorobiphenyl	58.5		mg/Kg	0.333	58.5		33-115			
Surrogate: Nitrobenzene-d5	65.1		"	0.333	65.1		29-110			

Origins Laboratory, Inc.



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

Jordan A. Bynon, Project Manager

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

Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L620934 - 3050B

MSD (L 91655-MSD-L620934)		Source: Y206149-13			Prepared: 06/10/2022 Analyzed: 06/15/2022					
Selenium	4.8	0.103	mg/Kg	4.72	0.741	86	75-125	6.6	80	
Barium	98	0.042	"	4.72	109	NR	75-125	1.1	80	*
MS (L 91655-MS-L620934)		Source: Y206149-13			Prepared: 06/10/2022 Analyzed: 06/15/2022					
Selenium	5.13	0.103	mg/Kg	4.7	0.741	93	75-125			
Barium	99.1	0.042	"	4.7	109	NR	75-125			*
LCS (LCS-L620934)		Prepared: 06/10/2022 Analyzed: 06/15/2022								
Barium	4.94	0.042	mg/Kg	5		99	80-120			
Selenium	4.82	0.103	"	5		96	80-120			
LRB (LRB-L620934)		Prepared: 06/10/2022 Analyzed: 06/15/2022								
Barium	ND	0.25	mg/Kg				-			
Selenium	ND	0.25	"				-			

Batch L620964 - 3050B

MSD (L 92410-MSD-L620964)		Source: 92410			Prepared: 06/10/2022 Analyzed: 06/15/2022					
Barium	60.7	0.042	mg/Kg	4.88	60	14	75-125	36.3	80	*
Selenium	4.64	0.103	"	4.88	0.534	84	75-125	1.7	80	
MS (L 92410-MS-L620964)		Source: 92410			Prepared: 06/10/2022 Analyzed: 06/15/2022					
Barium	87.7	0.042	mg/Kg	4.86	60	570	75-125			*
Selenium	4.56	0.103	"	4.86	0.534	83	75-125			
LCS (LCS-L620964)		Prepared: 06/10/2022 Analyzed: 06/15/2022								
Selenium	5.03	0.103	mg/Kg	5		101	80-120			
Barium	4.87	0.042	"	5		97	80-120			

Origins Laboratory, Inc.



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

Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L620964 - 3050B

LRB (LRB-L620964)

Prepared: 06/10/2022 Analyzed: 06/15/2022

Barium	ND	0.25	mg/Kg	-
Selenium	ND	0.25	"	-

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.

Jordan A. Bynon, Project Manager

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.24

Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

Notes and Definitions

U Sample is Non-Detect.

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

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

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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

Jordan A. Bynon, Project Manager



June 24, 2022

WSP USA

Rob Rebel

4600 W. 60th Ave.

Arvada

CO

80003

**Project Name - KMG - Hunter, Hunter 9 & 16-32
OSA FA**

Project Number - 31403177.022.24

Attached are your analytical results for KMG - Hunter, Hunter 9 & 16-32 OSA FA received by Origins Laboratory, Inc. June 15, 2022. This project is associated with Origins project number Y206381-01.

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

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

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

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

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

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



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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.24

Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sep01-Outlet-E02@5'	Y206381-01	Soil	June 15, 2022 10:30	06/15/2022 14:45
Sep01-Outlet-S02@5'	Y206381-02	Soil	June 15, 2022 10:32	06/15/2022 14:45
Sep01-Outlet-W02@5'	Y206381-03	Soil	June 15, 2022 10:34	06/15/2022 14:45
Sep01-Outlet-B02@9'	Y206381-04	Soil	June 15, 2022 10:36	06/15/2022 14:45
PH01-E02@5'	Y206381-05	Soil	June 15, 2022 10:45	06/15/2022 14:45
GW01	Y206381-06	Water	June 15, 2022 11:00	06/15/2022 14:45

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Jen Pellegrini For Jordan A. Bynon, Project Manager

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Rob Rebel

Project Number: 31403177.022.24

Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y206381 Client: WSP

Checklist Completed by: MS Client Project ID: Hunter, Hunter 9 & 16-32 OSA FA

Date/Time completed: 6/15/22 Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

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

Cooler Number/Temperature: 1, 0.8°C 0.8°C °C 1 °C (Describe) 1 °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" 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 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 6/15/22

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

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

Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

Sep01-Outlet-E02@5'
6/15/2022 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206381-01 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	32.3		0.500	mg/kg	250	B2F1536	06/15/2022	06/16/2022	
1,3,5-Trimethylbenzene	12.6		0.500	"	"	"	"	"	
Benzene	1.84		0.0500	"	25	"	"	06/16/2022	

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			"	"	"	
Surrogate: Toluene-d8	130 %		70-130			"	"	"	S-GC
Surrogate: 4-Bromofluorobenzene	97.9 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	1.23	0.00728	0.0134	mg/Kg	20	L622472	06/20/2022	06/23/2022	
2-Methylnaphthalene	2.09	0.0129	0.0134	"	"	"	"	"	
Naphthalene	0.445	0.00968	0.0134	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	60.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	69.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	67.8 %		29-110			"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.24

Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

Sep01-Outlet-S02@5'

6/15/2022 10:32:00AM

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

Y206381-02 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	13.9		0.500	mg/kg	250	B2F1536	06/15/2022	06/16/2022	
1,3,5-Trimethylbenzene	5.23		0.0500	"	25	"	"	06/16/2022	
Benzene	1.93		0.0500	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.1 %		70-130			"	"	"	
Surrogate: Toluene-d8	120 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.8 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.979	0.00728	0.0134	mg/Kg	20	L622472	06/20/2022	06/23/2022	
2-Methylnaphthalene	1.77	0.0129	0.0134	"	"	"	"	"	
Naphthalene	0.343	0.00968	0.0134	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	61 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	71.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	55.6 %		29-110			"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.24

Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

Sep01-Outlet-W02@5'

6/15/2022 10:34:00AM

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

Y206381-03 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	28.9		0.500	mg/kg	250	B2F1536	06/15/2022	06/16/2022	
1,3,5-Trimethylbenzene	11.6		0.500	"	"	"	"	"	
Benzene	1.62		0.0500	"	25	"	"	06/16/2022	

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			"	"	"	
Surrogate: Toluene-d8	125 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	1.6	0.00728	0.0134	mg/Kg	20	L622472	06/20/2022	06/23/2022	
2-Methylnaphthalene	2.8	0.0129	0.0134	"	"	"	"	"	
Naphthalene	0.543	0.00968	0.0134	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	59.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	68.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	68.6 %		29-110			"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.24

Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

Sep01-Outlet-B02@9'

6/15/2022 10:36:00AM

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

Y206381-04 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.408		0.0500	mg/kg	25	B2F1536	06/15/2022	06/16/2022	
1,3,5-Trimethylbenzene	0.200		0.0500	"	"	"	"	"	
Benzene	0.205		0.0500	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	113 %		70-130			"	"	06/16/2022	
Surrogate: Toluene-d8	104 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.1 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00956	0.00182	0.00335	mg/Kg	5	L622472	06/20/2022	06/23/2022	
2-Methylnaphthalene	0.00737	0.00323	0.00335	"	"	"	"	"	
Naphthalene	0.00264	0.00242	0.00335	"	"	"	"	"	J

Surrogate: 2-Fluorobiphenyl	56.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	66.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	60.4 %		29-110			"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.24

Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

PH01-E02@5'

6/15/2022 10:45:00AM

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

Y206381-05 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.957		0.0500	mg/kg	25	B2F1536	06/15/2022	06/16/2022	
1,3,5-Trimethylbenzene	0.363		0.0500	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	115 %		70-130			"	"	06/16/2022	
Surrogate: Toluene-d8	106 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.2 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0425	0.000364	0.00067	mg/Kg	1	L622472	06/20/2022	06/23/2022	
2-Methylnaphthalene	0.0317	0.000645	0.00067	"	"	"	"	"	
Naphthalene	0.00542	0.000484	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	50.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	65.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	57.8 %		29-110			"	"	"	

Table 915 metals by EPA 6020B

Barium	168		10.0	mg/kg	1	B2F1602	06/16/2022	06/16/2022	
Selenium	0.381		0.100	"	"	"	"	"	

Origins Laboratory, Inc.



The results in 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 For Jordan A. Bynon, Project Manager

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

Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

GW01

6/15/2022 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y206381-06 (Water)

Anions by IC 300.0

Chloride	32.0		31.2	mg/L	125	B2F1601	06/16/2022	06/17/2022	
Sulfate	528		31.2	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	409		20.0	ug/L	10	B2F1426	06/15/2022	06/15/2022	
1,3,5-Trimethylbenzene	156		20.0	"	"	"	"	"	
Benzene	770		10.0	"	"	"	"	"	
Ethylbenzene	210		10.0	"	"	"	"	"	
Naphthalene	43.5		20.0	"	"	"	"	"	
Toluene	ND		1.00	"	1	"	"	06/16/2022	U
Xylenes, total	1470		10.0	"	10	"	"	06/15/2022	

Surrogate: 1,2-Dichloroethane-d4	97.8 %		70-130			"	"	"	
Surrogate: Toluene-d8	94.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	110 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1140		5.00	mg/L	1	B2F1530	06/15/2022	06/15/2022	
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Jen Pellegrini For Jordan A. Bynon, Project Manager

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.24

Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F1426 - EPA 5030B (Water)

Blank (B2F1426-BLK1)

Prepared: 06/14/2022 Analyzed: 06/15/2022

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.7	70-130			
Surrogate: Toluene-d8	57		"	62.5		90.5	70-130			
Surrogate: 4-Bromofluorobenzene	70		"	62.5		112	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Rob Rebel

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Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F1426 - EPA 5030B (Water)

LCS (B2F1426-BS1)

Prepared: 06/14/2022 Analyzed: 06/15/2022

1,2,4-Trimethylbenzene	47.5	2.00	ug/L	50.0		94.9	70-130			
1,3,5-Trimethylbenzene	51.3	2.00	"	50.0		103	70-130			
Benzene	43.6	1.00	"	50.0		87.1	70-130			
Ethylbenzene	48.2	1.00	"	50.0		96.4	70-130			
m,p-Xylene	99.3	2.00	"	100		99.3	70-130			
Naphthalene	46.3	2.00	"	50.0		92.5	70-130			
o-Xylene	50.9	1.00	"	50.0		102	70-130			
Toluene	44.0	1.00	"	50.0		88.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.8	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	70-130			

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Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F1426 - EPA 5030B (Water)

Matrix Spike (B2F1426-MS1)		Source: Y206322-41			Prepared: 06/14/2022 Analyzed: 06/15/2022					
1,2,4-Trimethylbenzene	57.2	2.00	ug/L	50.0	2.41	109	70-130			
1,3,5-Trimethylbenzene	60.3	2.00	"	50.0	4.01	113	70-130			
Benzene	45.9	1.00	"	50.0	ND	91.8	70-130			
Ethylbenzene	51.7	1.00	"	50.0	ND	103	70-130			
m,p-Xylene	175	2.00	"	100	63.7	111	70-130			
Naphthalene	42.9	2.00	"	50.0	ND	85.7	70-130			
o-Xylene	52.6	1.00	"	50.0	ND	105	70-130			
Toluene	49.4	1.00	"	50.0	ND	98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.7	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130			

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Project Number: 31403177.022.24

Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F1426 - EPA 5030B (Water)

Matrix Spike Dup (B2F1426-MSD1)		Source: Y206322-41			Prepared: 06/14/2022 Analyzed: 06/15/2022					
1,2,4-Trimethylbenzene	53.8	2.00	ug/L	50.0	2.41	103	70-130	6.09	20	
1,3,5-Trimethylbenzene	57.8	2.00	"	50.0	4.01	107	70-130	4.32	20	
Benzene	44.4	1.00	"	50.0	ND	88.8	70-130	3.37	20	
Ethylbenzene	51.0	1.00	"	50.0	ND	102	70-130	1.46	20	
m,p-Xylene	168	2.00	"	100	63.7	104	70-130	4.43	20	
Naphthalene	42.2	2.00	"	50.0	ND	84.4	70-130	1.62	20	
o-Xylene	51.1	1.00	"	50.0	ND	102	70-130	3.01	20	
Toluene	48.2	1.00	"	50.0	ND	96.3	70-130	2.48	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.7	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

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Rob Rebel

Project Number: 31403177.022.24

Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F1536 - EPA 5030 (soil)

Blank (B2F1536-BLK1)

Prepared: 06/15/2022 Analyzed: 06/15/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	93.3		70-130			
Surrogate: Toluene-d8	0.14		"	0.125	111		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	96.2		70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F1536 - EPA 5030 (soil)

LCS (B2F1536-BS1)

Prepared: 06/15/2022 Analyzed: 06/15/2022

1,2,4-Trimethylbenzene	0.115	0.00200	mg/kg	0.100		115	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100		114	70-130			
Benzene	0.0912	0.00200	"	0.100		91.2	70-130			
Ethylbenzene	0.113	0.00200	"	0.100		113	70-130			
Naphthalene	0.0970	0.0100	"	0.100		97.0	70-130			
Toluene	0.0999	0.00200	"	0.100		99.9	70-130			
o-Xylene	0.110	0.00200	"	0.100		110	70-130			
m,p-Xylene	0.219	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Project Number: 31403177.022.24

Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F1536 - EPA 5030 (soil)

Matrix Spike (B2F1536-MS1)		Source: Y206375-06			Prepared: 06/15/2022 Analyzed: 06/15/2022					
1,2,4-Trimethylbenzene	0.115	0.00200	mg/kg	0.100	ND	115	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100	ND	114	70-130			
Benzene	0.0902	0.00200	"	0.100	ND	90.2	70-130			
Ethylbenzene	0.113	0.00200	"	0.100	ND	113	70-130			
Naphthalene	0.0918	0.0100	"	0.100	ND	91.8	70-130			
Toluene	0.100	0.00200	"	0.100	ND	100	70-130			
o-Xylene	0.111	0.00200	"	0.100	ND	111	70-130			
m,p-Xylene	0.220	0.00400	"	0.200	ND	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.0	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Rob Rebel

Project Number: 31403177.022.24

Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F1536 - EPA 5030 (soil)

Matrix Spike Dup (B2F1536-MSD1)		Source: Y206375-06			Prepared: 06/15/2022 Analyzed: 06/15/2022					
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100	ND	111	70-130	3.33	20	
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100	ND	111	70-130	2.59	20	
Benzene	0.0890	0.00200	"	0.100	ND	89.0	70-130	1.27	20	
Ethylbenzene	0.111	0.00200	"	0.100	ND	111	70-130	2.18	20	
Naphthalene	0.0949	0.0100	"	0.100	ND	94.9	70-130	3.32	20	
Toluene	0.0997	0.00200	"	0.100	ND	99.7	70-130	0.640	20	
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130	1.62	20	
m,p-Xylene	0.216	0.00400	"	0.200	ND	108	70-130	1.93	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.7	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.24

Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by SM 3500 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F1602 - Default Prep Metals

Blank (B2F1602-BLK1)

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

Arsenic	ND	0.100	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	0.100	"							U
Silver	ND	0.100	"							U
Zinc	ND	10.0	"							U

LCS (B2F1602-BS1)

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

Arsenic	10.2	0.100	mg/kg	10.0		102	80-120
Barium	1010	10.0	"	1000		101	80-120
Cadmium	10.3	0.100	"	10.0		103	80-120
Copper	97.9	10.0	"	100		97.9	80-120
Lead	10.2	1.00	"	10.0		102	80-120
Nickel	9.70	1.00	"	10.0		97.0	80-120
Selenium	9.81	0.100	"	10.0		98.1	80-120
Silver	10.6	0.100	"	10.0		106	80-120
Zinc	105	10.0	"	100		105	80-120

Matrix Spike (B2F1602-MS1)

Source: Y206336-01

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

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

Metals by SM 3500 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F1602 - Default Prep Metals

Matrix Spike (B2F1602-MS1)		Source: Y206336-01			Prepared: 06/16/2022 Analyzed: 06/16/2022					
Arsenic	12.7	0.100	mg/kg	10.2	1.93	106	75-125			
Barium	1150	10.0	"	1020	41.7	109	75-125			
Cadmium	10.7	0.100	"	10.2	0.0494	105	75-125			
Copper	108	10.0	"	102	4.58	102	75-125			
Lead	17.0	1.00	"	10.2	3.25	135	75-125			QM-07
Nickel	18.3	1.00	"	10.2	5.06	130	75-125			QM-07
Selenium	10.2	0.100	"	10.2	0.210	97.9	75-125			
Silver	10.8	0.100	"	10.2	0.0193	106	75-125			
Zinc	126	10.0	"	102	21.8	102	75-125			
Matrix Spike Dup (B2F1602-MSD1)		Source: Y206336-01			Prepared: 06/16/2022 Analyzed: 06/16/2022					
Arsenic	11.9	0.100	mg/kg	9.72	1.93	102	75-125	6.62	20	
Barium	1060	10.0	"	972	41.7	105	75-125	8.11	20	
Cadmium	10.0	0.100	"	9.72	0.0494	103	75-125	6.55	20	
Copper	100	10.0	"	97.2	4.58	98.5	75-125	7.81	20	
Lead	14.8	1.00	"	9.72	3.25	119	75-125	13.8	20	
Nickel	15.6	1.00	"	9.72	5.06	108	75-125	16.0	20	
Selenium	9.44	0.100	"	9.72	0.210	95.0	75-125	7.45	20	
Silver	10.1	0.100	"	9.72	0.0193	103	75-125	7.31	20	
Zinc	117	10.0	"	97.2	21.8	97.7	75-125	7.29	20	

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

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 B2F1530 - NO PREP										
Blank (B2F1530-BLK1)					Prepared: 06/15/2022 Analyzed: 06/15/2022					
Total Dissolved Solids	ND	5.00	mg/L							U
LCS (B2F1530-BS1)					Prepared: 06/15/2022 Analyzed: 06/15/2022					
Total Dissolved Solids	1000	5.00	mg/L	998		101	90-110			
Duplicate (B2F1530-DUP1)					Source: Y206322-12 Prepared: 06/15/2022 Analyzed: 06/15/2022					
Total Dissolved Solids	894	5.00	mg/L		886			0.899	10	
Batch B2F1601 - Filter .45um non acidified										
Blank (B2F1601-BLK1)					Prepared: 06/16/2022 Analyzed: 06/17/2022					
Chloride	ND	0.250	mg/L							U
Sulfate	ND	0.250	"							U
LCS (B2F1601-BS1)					Prepared: 06/16/2022 Analyzed: 06/17/2022					
Chloride	3.85	0.250	mg/L	4.00		96.3	90-110			
Sulfate	3.88	0.250	"	4.00		97.0	90-110			
Matrix Spike (B2F1601-MS1)					Source: Y206362-02 Prepared: 06/16/2022 Analyzed: 06/17/2022					
Chloride	729		mg/L	500	232	99.4	90-110			
Sulfate	2060		"	500	1640	83.1	90-110			QM-07
Matrix Spike Dup (B2F1601-MSD1)					Source: Y206362-02 Prepared: 06/16/2022 Analyzed: 06/17/2022					
Chloride	717		mg/L	500	232	97.0	90-110	1.66	5	
Sulfate	2030		"	500	1640	78.4	90-110	1.16	5	QM-07

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L622472 - 3550B

MSD (L 88770-MSD-L622472)		Source: 88770			Prepared: 06/20/2022 Analyzed: 06/23/2022					
1-Methylnaphthalene	0.0929	0.000364	mg/Kg	0.167	0.0196	43.8	30-130	3.2	30	
Naphthalene	0.0888	0.000484	"	0.167	0.0101	47.1	30-130	4.2	30	
2-Methylnaphthalene	0.136	0.000645	"	0.167	0.047	53.2	30-130	13.6	30	
Surrogate: Nitrobenzene-d5	51.3		"	0.333	180	51.3	29-110			
Surrogate: 2-Fluorobiphenyl	28.1		"	0.333	162	28.1	33-115			*
Surrogate: 4-Terphenyl-d14	66.6		"	0.333	203	66.6	33-122			

MS (L 88770-MS-L622472)		Source: 88770			Prepared: 06/20/2022 Analyzed: 06/23/2022					
1-Methylnaphthalene	0.096	0.000364	mg/Kg	0.166	0.0196	46	30-130			
2-Methylnaphthalene	0.156	0.000645	"	0.166	0.047	65.6	30-130			
Naphthalene	0.0927	0.000484	"	0.166	0.0101	49.7	30-130			
Surrogate: 2-Fluorobiphenyl	35.2		"	0.332	162	35.2	33-115			
Surrogate: 4-Terphenyl-d14	69.8		"	0.332	203	69.8	33-122			
Surrogate: Nitrobenzene-d5	66.8		"	0.332	180	66.8	29-110			

LCS (LCS-L622472)		Prepared: 06/20/2022 Analyzed: 06/23/2022								
1-Methylnaphthalene	0.0949	0.000364	mg/Kg	0.167		56.8	30-130			
Naphthalene	0.0856	0.000484	"	0.167		51.2	30-130			
2-Methylnaphthalene	0.0958	0.000645	"	0.167		57.3	30-130			
Surrogate: Nitrobenzene-d5	48		"	0.333		48	29-110			
Surrogate: 4-Terphenyl-d14	76.2		"	0.333		76.2	33-122			
Surrogate: 2-Fluorobiphenyl	60		"	0.333		60	33-115			

LRB (LRB-L622472)		Prepared: 06/20/2022 Analyzed: 06/23/2022								
1-Methylnaphthalene	ND	0.00067	mg/Kg			-				
2-Methylnaphthalene	ND	0.00067	"			-				
Naphthalene	ND	0.00067	"			-				
Surrogate: Nitrobenzene-d5	48		"	0.333		48	29-110			

Origins Laboratory, Inc.



The results in 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 For Jordan A. Bynon, Project Manager

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

Rob Rebel
Project Number: 31403177.022.24
Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L622472 - 3550B

LRB (LRB-L622472)

Prepared: 06/20/2022 Analyzed: 06/23/2022

Surrogate: 2-Fluorobiphenyl	56.4		mg/Kg	0.333	56.4		33-115			
Surrogate: 4-Terphenyl-d14	58.5		"	0.333	58.5		33-122			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.24

Project: KMG - Hunter, Hunter 9 & 16-32 OSA FA

Notes and Definitions

U Sample is Non-Detect.

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

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

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

July 26, 2022

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - Hunter, Hunter 9&16-32
OSA Facility****Project Number - [none]**

Attached are your analytical results for KMG - Hunter, Hunter 9&16-32 OSA Facility received by Origins Laboratory, Inc. July 18, 2022. This project is associated with Origins project number Y207363-01.

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: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sep01-Outlet W03@5'	Y207363-01	Soil	July 18, 2022 14:55	07/18/2022 17:31
Sep01-Outlet W04@5'	Y207363-02	Soil	July 18, 2022 15:00	07/18/2022 17:31
Sep01-Outlet B03@10'	Y207363-03	Soil	July 18, 2022 15:05	07/18/2022 17:31
Sep01-Outlet B04@10'	Y207363-04	Soil	July 18, 2022 15:10	07/18/2022 17:31
Sep01-Outlet B05@10'	Y207363-05	Soil	July 18, 2022 15:15	07/18/2022 17:31
Sep01-Outlet S03@5'	Y207363-06	Soil	July 18, 2022 15:20	07/18/2022 17:31
Sep01-Outlet S04@5'	Y207363-07	Soil	July 18, 2022 15:25	07/18/2022 17:31
Sep01-Outlet E03@5'	Y207363-08	Soil	July 18, 2022 15:30	07/18/2022 17:31
Sep01-Outlet E04@5'	Y207363-09	Soil	July 18, 2022 15:35	07/18/2022 17:31
PH01- E03@5'	Y207363-10	Soil	July 18, 2022 15:40	07/18/2022 17:31
PH01 - N02@5'	Y207363-11	Soil	July 18, 2022 15:45	07/18/2022 17:31

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: [none]

Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

www.originslaboratory.com

page 1 of 1

ORIGINS
LABORATORY, INC

Y207363

Client: Ensolum
Project Manager: Jeremy Espinoza
Address: Hunter, Hunter 9&16-32 OSA Facility
Project Number: 09A147066
Telephone Number: _____
Email Address: Ensolum Oxy Team
Samples Collected By: Glenn Thompson

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Other	Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil			
Sep01-Outlet W0305'	7-18-22	1455	2						X		X	1
Sep01-Outlet W0405'		1500									X	2
Sep01-Outlet B03010'		1505									X	3
Sep01-Outlet B04010'		1510									X	4
Sep01-Outlet B05010'		1515									X	5
Sep01-Outlet S0305'		1520									X	6
Sep01-Outlet S0405'		1525									X	7
Sep01-Outlet E0305'		1530									X	8
Sep01-Outlet E0405'		1535									X	9
PH01-E0305'		1540									X	10
PH01-W0305'		1545									X	
Relinquished By:	Date: 7-18-22	Time: 17:31	Time: 17:31	Received By: DE	Received By:	Date: 7-18-2021	Date:	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>				

Date Results Needed

Temp Received: 53°

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: [none]

Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Origins Laboratory

Sample Receipt Checklist

Origins Work Order: V207363

Client: Ensolum

Client Project ID: Hunter, Hunter 9+16-32 OSA Facility

Checklist Completed by: MS

Date/time completed: 7/18/22

Shipped Via: HD

Airbill #: NA

Matrix(s) Received: (Check all that apply): 1 Soil/Solid Water Other:

Cooler Number/Temperature: 1 15.3 °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
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 and action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager): [Signature]

Date Time Reviewed: 7/18/22

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: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Sep01-Outlet W03@5'
7/18/2022 2:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207363-01 (Soil)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0153		0.00200	mg/kg	1	B2G1825	07/18/2022	07/18/2022	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	0.00722		0.00380	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			"	"	"	
Surrogate: Toluene-d8	92.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00841	0.000364	0.00067	mg/Kg	1	L627852	07/21/2022	07/21/2022	
2-Methylnaphthalene	0.0155	0.000645	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	43.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	52.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	37.5 %		29-110			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Sep01-Outlet W04@5'
7/18/2022 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207363-02 (Soil)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	4.40		0.0500	mg/kg	25	B2G1825	07/18/2022	07/18/2022	
1,3,5-Trimethylbenzene	0.446		0.0500	"	"	"	"	"	
Benzene	ND		0.0500	"	"	"	"	"	R-05, U
Naphthalene	0.582		0.250	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			"	"	"	
Surrogate: Toluene-d8	94.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.464	0.000364	0.00067	mg/Kg	1	L627852	07/21/2022	07/21/2022	
2-Methylnaphthalene	0.995	0.00645	0.0067	"	10	"	"	"	

Surrogate: 2-Fluorobiphenyl	50.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	58.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	58.7 %		29-110			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Sep01-Outlet B03@10'

7/18/2022 3:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y207363-03 (Soil)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0135		0.00200	mg/kg	1	B2G1825	07/18/2022	07/18/2022	
1,3,5-Trimethylbenzene	0.00810		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
Surrogate: Toluene-d8	94.0 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L627852	07/21/2022	07/21/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	47 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	57.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52.7 %		29-110			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Sep01-Outlet B04@10'

7/18/2022 3:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y207363-04 (Soil)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0121		0.00200	mg/kg	1	B2G1825	07/18/2022	07/19/2022	
1,3,5-Trimethylbenzene	0.00492		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.0 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.0 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.9 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L627852	07/21/2022	07/21/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	46.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	62.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	51.7 %		29-110			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Sep01-Outlet B05@10'

7/18/2022 3:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y207363-05 (Soil)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00970		0.00200	mg/kg	1	B2G1825	07/18/2022	07/19/2022	
1,3,5-Trimethylbenzene	0.00400		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.7 %		70-130			"	"	"	
Surrogate: Toluene-d8	96.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.000737	0.000364	0.00067	mg/Kg	1	L627852	07/21/2022	07/21/2022	
2-Methylnaphthalene	0.00136	0.000645	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	48.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	57.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	54.2 %		29-110			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Sep01-Outlet S03@5'
7/18/2022 3:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207363-06 (Soil)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	15.0		0.500	mg/kg	250	B2G1825	07/18/2022	07/19/2022	
1,3,5-Trimethylbenzene	5.70		0.500	"	"	"	"	"	
Benzene	0.108		0.0500	"	25	"	"	07/19/2022	
Naphthalene	0.968		0.250	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	79.2 %		70-130			"	"	"	
Surrogate: Toluene-d8	124 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	1.65	0.00364	0.0067	mg/Kg	10	L627852	07/21/2022	07/21/2022	
2-Methylnaphthalene	2.34	0.00645	0.0067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	72.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	115 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	77.6 %		29-110			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Sep01-Outlet S04@5'
7/18/2022 3:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207363-07 (Soil)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2G1825	07/18/2022	07/19/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.0 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L627852	07/21/2022	07/21/2022	
2-Methylnaphthalene	0.000804	0.000645	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	48.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	42.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	55.2 %		29-110			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Sep01-Outlet E03@5'
7/18/2022 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207363-08 (Soil)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2G1825	07/18/2022	07/19/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	81.9 %	70-130	"	"	"
Surrogate: Toluene-d8	97.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L627852	07/21/2022	07/21/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	45 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	57.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	47.4 %	29-110	"	"	"

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Sep01-Outlet E04@5'
7/18/2022 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207363-09 (Soil)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	0.406		0.0500	mg/kg	25	B2G1825	07/18/2022	07/19/2022	
1,3,5-Trimethylbenzene	ND		0.00200	"	1	"	"	07/19/2022	U
Benzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	77.6 %		70-130			"	"	07/19/2022	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.8 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0777	0.00182	0.00335	mg/Kg	5	L627852	07/21/2022	07/21/2022	
2-Methylnaphthalene	0.0283	0.00323	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	68.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	76.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	47.4 %		29-110			"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

PH01- E03@5'
7/18/2022 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207363-10 (Soil)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	19.5		0.500	mg/kg	250	B2G1825	07/18/2022	07/19/2022	
1,3,5-Trimethylbenzene	5.69		0.0500	"	25	"	"	07/19/2022	
Naphthalene	0.699		0.250	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	77.0 %		70-130			"	"	"	
Surrogate: Toluene-d8	118 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	1.38	0.00182	0.00335	mg/Kg	5	L627852	07/21/2022	07/21/2022	
2-Methylnaphthalene	2.75	0.00323	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	73.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	82.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	64 %		29-110			"	"	"	

Table 915 metals by EPA 6020B

Barium	123		7.71	mg/kg	5	B2G1826	07/18/2022	07/19/2022	
Selenium	0.150		0.0771	"	"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

PH01 - N02@5'
7/18/2022 3:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207363-11 (Soil)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2G1825	07/18/2022	07/19/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	81.3 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L627852	07/21/2022	07/21/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	47.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	58.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	49.2 %		29-110			"	"	"	

Table 915 metals by EPA 6020B

Barium	123		6.42	mg/kg	5	B2G1826	07/18/2022	07/19/2022	
Selenium	ND		0.0642	"	"	"	"	"	U

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA
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 B2G1825 - EPA 5030 (soil)										
Blank (B2G1825-BLK1)					Prepared: 07/18/2022 Analyzed: 07/18/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2G1825 - EPA 5030 (soil)

LCS (B2G1825-BS1)

Prepared: 07/18/2022 Analyzed: 07/18/2022

1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100		107	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Benzene	0.108	0.00200	"	0.100		108	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.211	0.00400	"	0.200		105	70-130			
Naphthalene	0.112	0.0100	"	0.100		112	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	95.9		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.8		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.2		70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2G1825 - EPA 5030 (soil)

Matrix Spike (B2G1825-MS1)		Source: Y207360-01			Prepared: 07/18/2022 Analyzed: 07/18/2022					
1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100	ND	100	70-130			
1,3,5-Trimethylbenzene	0.0987	0.00200	"	0.100	ND	98.7	70-130			
Benzene	0.107	0.00200	"	0.100	ND	107	70-130			
Ethylbenzene	0.0993	0.00200	"	0.100	ND	99.3	70-130			
m,p-Xylene	0.203	0.00400	"	0.200	ND	101	70-130			
Naphthalene	0.111	0.0100	"	0.100	0.00150	110	70-130			
o-Xylene	0.0996	0.00200	"	0.100	ND	99.6	70-130			
Toluene	0.0996	0.00200	"	0.100	ND	99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2G1825 - EPA 5030 (soil)

Matrix Spike Dup (B2G1825-MSD1)		Source: Y207360-01			Prepared: 07/18/2022 Analyzed: 07/18/2022					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130	5.18	20	
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130	5.48	20	
Benzene	0.110	0.00200	"	0.100	ND	110	70-130	2.29	20	
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	3.56	20	
m,p-Xylene	0.210	0.00400	"	0.200	ND	105	70-130	3.62	20	
Naphthalene	0.121	0.0100	"	0.100	0.00150	120	70-130	8.88	20	
o-Xylene	0.103	0.00200	"	0.100	ND	103	70-130	3.22	20	
Toluene	0.100	0.00200	"	0.100	ND	100	70-130	0.720	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by SM 3500 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2G1826 - Default Prep Metals

Blank (B2G1826-BLK1)

Prepared: 07/18/2022 Analyzed: 07/19/2022

Arsenic	ND	0.000100	mg/kg							U
Barium	ND	0.0100	"							U
Cadmium	ND	0.000100	"							U
Copper	ND	0.0100	"							U
Lead	ND	0.00100	"							U
Nickel	ND	0.00100	"							U
Selenium	ND	0.000100	"							U
Silver	ND	0.000100	"							U
Zinc	ND	0.100	"							U

LCS (B2G1826-BS1)

Prepared: 07/18/2022 Analyzed: 07/19/2022

Arsenic	0.0489	0.000100	mg/kg	0.0500		97.9	80-120
Barium	5.53	0.0100	"	5.00		111	80-120
Cadmium	0.0528	0.000100	"	0.0500		106	80-120
Copper	0.556	0.0100	"	0.500		111	80-120
Lead	0.0513	0.00100	"	0.0500		103	80-120
Nickel	0.0541	0.00100	"	0.0500		108	80-120
Selenium	0.0525	0.000100	"	0.0500		105	80-120
Silver	0.0541	0.000100	"	0.0500		108	80-120
Zinc	0.519	0.100	"	0.500		104	80-120

Matrix Spike (B2G1826-MS1)

Source: Y207363-10

Prepared: 07/18/2022 Analyzed: 07/19/2022

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Metals by SM 3500 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2G1826 - Default Prep Metals

Matrix Spike (B2G1826-MS1)		Source: Y207363-10			Prepared: 07/18/2022 Analyzed: 07/19/2022					
Arsenic	9.07	0.0175	mg/kg	8.73	3.25	66.6	75-125			QM-07
Barium	1060	1.75	"	873	123	107	75-125			
Cadmium	7.30	0.0175	"	8.73	0.201	81.3	75-125			
Copper	103	1.75	"	87.3	14.6	101	75-125			
Lead	17.8	0.175	"	8.73	8.37	109	75-125			
Nickel	22.0	0.175	"	8.73	14.8	82.0	75-125			
Selenium	8.44	0.0175	"	8.73	0.150	94.9	75-125			
Silver	9.24	0.0175	"	8.73	0.0486	105	75-125			
Zinc	131	17.5	"	87.3	49.7	93.7	75-125			
Matrix Spike Dup (B2G1826-MSD1)		Source: Y207363-10			Prepared: 07/18/2022 Analyzed: 07/19/2022					
Arsenic	9.92	0.0176	mg/kg	8.81	3.25	75.6	75-125	8.95	20	
Barium	1080	1.76	"	881	123	109	75-125	2.39	20	
Cadmium	7.47	0.0176	"	8.81	0.201	82.5	75-125	2.26	20	
Copper	97.5	1.76	"	88.1	14.6	94.0	75-125	5.67	20	
Lead	17.3	0.176	"	8.81	8.37	101	75-125	3.12	20	
Nickel	21.3	0.176	"	8.81	14.8	73.6	75-125	3.08	20	QM-07
Selenium	8.16	0.0176	"	8.81	0.150	90.9	75-125	3.33	20	
Silver	9.04	0.0176	"	8.81	0.0486	102	75-125	2.26	20	
Zinc	131	17.6	"	88.1	49.7	92.6	75-125	0.173	20	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L627852 - 3550B

MSD (L 82029-MSD-L627852)		Source: Y207363-08			Prepared: 07/21/2022 Analyzed: 07/21/2022					
2-Methylnaphthalene	0.0872	0.000645	mg/Kg	0.164	<0.000645	53.1	30-130	11.7	30	
1-Methylnaphthalene	0.0868	0.000364	"	0.164	<0.000364	52.9	30-130	12.4	30	
Surrogate: 2-Fluorobiphenyl	45.7		"	0.328	150	45.7	33-115			
Surrogate: 4-Terphenyl-d14	57.6		"	0.328	190	57.6	33-122			
Surrogate: Nitrobenzene-d5	48.7		"	0.328	158	48.7	29-110			
MS (L 82029-MS-L627852)		Source: Y207363-08			Prepared: 07/21/2022 Analyzed: 07/21/2022					
2-Methylnaphthalene	0.0775	0.000645	mg/Kg	0.162	<0.000645	47.8	30-130			
1-Methylnaphthalene	0.0766	0.000364	"	0.162	<0.000364	47.2	30-130			
Surrogate: 4-Terphenyl-d14	58.4		"	0.325	190	58.4	33-122			
Surrogate: 2-Fluorobiphenyl	44		"	0.325	150	44	33-115			
Surrogate: Nitrobenzene-d5	45.5		"	0.325	158	45.5	29-110			
LCS (LCS-L627852)					Prepared: 07/21/2022 Analyzed: 07/21/2022					
2-Methylnaphthalene	0.0939	0.000645	mg/Kg	0.167		56.2	30-130			
1-Methylnaphthalene	0.0997	0.000364	"	0.167		59.7	30-130			
Surrogate: 4-Terphenyl-d14	62.4		"	0.333		62.4	33-122			
Surrogate: Nitrobenzene-d5	66.6		"	0.333		66.6	29-110			
Surrogate: 2-Fluorobiphenyl	53.7		"	0.333		53.7	33-115			
LRB (LRB-L627852)					Prepared: 07/21/2022 Analyzed: 07/21/2022					
2-Methylnaphthalene	ND	0.00067	mg/Kg			-				
1-Methylnaphthalene	ND	0.00067	"			-				
Surrogate: 4-Terphenyl-d14	51		"	0.333		51	33-122			
Surrogate: 2-Fluorobiphenyl	45.6		"	0.333		45.6	33-115			
Surrogate: Nitrobenzene-d5	50.7		"	0.333		50.7	29-110			

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: [none]

Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

Notes and Definitions

U Sample is Non-Detect.

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 on a wet weight basis.

Origins Laboratory, Inc.



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

August 12, 2022

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - Hunter, Hunter 9&16-32
OSA Facility****Project Number - 09a1417066**

Attached are your analytical results for KMG - Hunter, Hunter 9&16-32 OSA Facility received by Origins Laboratory, Inc. August 01, 2022. This project is associated with Origins project number Y208032-01.

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: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP01-Outlet-N02@5'	Y208032-01	Soil	August 1, 2022 15:00	08/01/2022 17:29
SEP01-Outlet-W05@5'	Y208032-02	Soil	August 1, 2022 15:05	08/01/2022 17:29
SEP01-Outlet-W06@5'	Y208032-03	Soil	August 1, 2022 15:10	08/01/2022 17:29
SEP01-Outlet-S05@5'	Y208032-04	Soil	August 1, 2022 15:15	08/01/2022 17:29
SEP01-Outlet-S06@5'	Y208032-05	Soil	August 1, 2022 15:20	08/01/2022 17:29
SEP01-Outlet-B06@11'	Y208032-06	Soil	August 1, 2022 15:25	08/01/2022 17:29
SEP01-Outlet-B07@11'	Y208032-07	Soil	August 1, 2022 15:30	08/01/2022 17:29
SEP01-Outlet-B08@11'	Y208032-08	Soil	August 1, 2022 15:35	08/01/2022 17:29
SEP01-Outlet-B09@11'	Y208032-09	Soil	August 1, 2022 15:40	08/01/2022 17:29
PH01-N03@5'	Y208032-10	Soil	August 1, 2022 15:45	08/01/2022 17:29
PH01-E04@5'	Y208032-11	Soil	August 1, 2022 15:50	08/01/2022 17:29
PH01-S02@5'	Y208032-12	Soil	August 1, 2022 15:55	08/01/2022 17:29
PH01-B02@10'	Y208032-13	Soil	August 1, 2022 16:00	08/01/2022 17:29

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

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LABORATORY, INC

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✓ 1208032 page 1 of 2

Client: Ensolum
Address: _____
Telephone Number: _____
Email Address: Ensolum oxy team
Project Manager: Jeremy Espinoza
Project Name: Hunter, Hunter 9&16-32 OSA Facility
Project Number: 09a1417066
Samples Collected By: Glenn Thompson

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis			Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Conister #	Other	Benzene		TMBS
Sep01-outlet-NUG-5'	8-1-22	1500	2	X					X			X	X	
Sep01-outlet-WWS-5'		1505												
Sep01-outlet-WWS-5'		1510												
Sep01-outlet-SOS-5'		1515												
Sep01-outlet-SOS-5'		1520												
Sep01-outlet-SOS-5'		1525												
Sep01-outlet-BOS-11'		1530												
Sep01-outlet-BOS-11'		1535												
Sep01-outlet-BOS-11'		1540												
Sep01-outlet-BOS-11'		1540												

Temp Received: 5.9

Date Results Needed

Reinforced By: [Signature]
Date: 8-1-22
Time: 12:14
Received By: [Signature]
Date: 08/01/2022
Time: 18:16
Turnaround Time:
Same Day ☒ 24 Hr ☐
48 Hr ☐ 72 Hr ☐
Standard ☐

Origins Laboratory, Inc.

[Signature]

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09a1417066

Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y208032

Client: ENSOLUM

Client Project ID: KMG Hunter Hunter 9&16-32 OSA

Checklist Completed by: DE

Date/time completed: 8/1/22

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

Airbill #: NA

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

Cooler Number/Temperature: 159 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
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.				
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)				
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 8/1/22

Origins Laboratory, Inc.

[Signature]

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

Jeremy Espinoza
Project Number: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01-Outlet-N02@5'

8/1/2022 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208032-01 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	9.15		0.0500	mg/kg	25	B2H0125	08/01/2022	08/01/2022	
1,3,5-Trimethylbenzene	0.359		0.00200	"	1	"	"	08/02/2022	
Benzene	0.0890		0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	120 %		70-130			"	"	"	
Surrogate: Toluene-d8	132 %		70-130			"	"	08/01/2022	2-GC
Surrogate: 4-Bromofluorobenzene	73.8 %		70-130			"	"	08/02/2022	

PAH by 8270D SIM

1-Methylnaphthalene	0.444	0.00182	0.00335	mg/Kg	5	L630235	08/04/2022	08/05/2022	
2-Methylnaphthalene	0.821	0.00323	0.00335	"	"	"	"	"	
Naphthalene	0.195	0.00242	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	34.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	40.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	34.4 %		29-110			"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01-Outlet-W05@5'

8/1/2022 3:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208032-02 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00318		0.00200	mg/kg	1	B2H0125	08/01/2022	08/01/2022	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %		70-130			"	"	"	
Surrogate: Toluene-d8	93.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	87.6 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L630235	08/04/2022	08/05/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	53.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	63.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	53.5 %		29-110			"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01-Outlet-W06@5'

8/1/2022 3:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208032-03 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H0125	08/01/2022	08/01/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130	"	"	"
Surrogate: Toluene-d8	93.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	88.4 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L630235	08/04/2022	08/05/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	60 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	68.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	60.3 %	29-110	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01-Outlet-S05@5'

8/1/2022 3:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208032-04 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00266		0.00200	mg/kg	1	B2H0125	08/01/2022	08/01/2022	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %		70-130			"	"	"	
Surrogate: Toluene-d8	94.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	84.8 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.000726	0.000364	0.00067	mg/Kg	1	L630235	08/04/2022	08/05/2022	
2-Methylnaphthalene	0.0014	0.000645	0.00067	"	"	"	"	"	
Naphthalene	0.000542	0.000484	0.00067	"	"	"	"	"	J

Surrogate: 2-Fluorobiphenyl	58.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	67 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	58.7 %		29-110			"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01-Outlet-S06@5'

8/1/2022 3:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208032-05 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	2.85		0.0500	mg/kg	25	B2H0125	08/01/2022	08/01/2022	
1,3,5-Trimethylbenzene	0.369		0.00200	"	1	"	"	08/02/2022	
Benzene	0.00276		0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	113 %		70-130			"	"	"	
Surrogate: Toluene-d8	104 %		70-130			"	"	08/01/2022	
Surrogate: 4-Bromofluorobenzene	90.6 %		70-130			"	"	08/02/2022	

PAH by 8270D SIM

1-Methylnaphthalene	0.297	0.00182	0.00335	mg/Kg	5	L630235	08/04/2022	08/05/2022	
2-Methylnaphthalene	0.502	0.00323	0.00335	"	"	"	"	"	
Naphthalene	0.114	0.00242	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	29 %		33-115			"	"	"	*
Surrogate: 4-Terphenyl-d14	31.6 %		33-122			"	"	"	*
Surrogate: Nitrobenzene-d5	30.5 %		29-110			"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01-Outlet-B06@11'

8/1/2022 3:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208032-06 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H0125	08/01/2022	08/01/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130	"	"	"
Surrogate: Toluene-d8	91.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	89.5 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L630235	08/04/2022	08/05/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	47.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	55.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	47.9 %	29-110	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01-Outlet-B07@11'

8/1/2022 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208032-07 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H0125	08/01/2022	08/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130	"	"	"
Surrogate: Toluene-d8	90.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	86.3 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L630318	08/04/2022	08/05/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	48.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	69.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	48.3 %	29-110	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01-Outlet-B08@11'

8/1/2022 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208032-08 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0282		0.00200	mg/kg	1	B2H0125	08/01/2022	08/02/2022
1,3,5-Trimethylbenzene	0.0152		0.00200	"	"	"	"	"
Benzene	0.00736		0.00200	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	"
Surrogate: Toluene-d8	103 %		70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	91.7 %		70-130			"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L630318	08/04/2022	08/05/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	49.5 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	61.5 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	49.5 %		29-110			"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01-Outlet-B09@11'

8/1/2022 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208032-09 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H0125	08/01/2022	08/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130	"	"	"
Surrogate: Toluene-d8	90.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	87.4 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L630318	08/04/2022	08/05/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	53.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	69.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	54.1 %	29-110	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

PH01-N03@5'

8/1/2022 3:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208032-10 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H0125	08/01/2022	08/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130	"	"	"
Surrogate: Toluene-d8	106 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L630318	08/04/2022	08/05/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	54.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	68.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	56.2 %	29-110	"	"	"

Table 915 metals by EPA 6020B

Barium	118	8.66	mg/kg	5	B2H0213	08/02/2022	08/04/2022
Selenium	0.292	0.0866	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

PH01-E04@5'

8/1/2022 3:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208032-11 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H0119	08/01/2022	08/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	106 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L630318	08/04/2022	08/05/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	58.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	67 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	57.6 %	29-110	"	"	"

Table 915 metals by EPA 6020B

Barium	101	9.72	mg/kg	5	B2H0213	08/02/2022	08/04/2022
Selenium	0.415	0.0972	"	"	"	"	"

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

Jeremy Espinoza
Project Number: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

PH01-S02@5'

8/1/2022 3:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208032-12 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H0119	08/01/2022	08/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.9 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L630318	08/04/2022	08/05/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	59.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	70.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	59.6 %	29-110	"	"	"

Table 915 metals by EPA 6020B

Barium	145	7.67	mg/kg	5	B2H0213	08/02/2022	08/04/2022
Selenium	0.269	0.0767	"	"	"	"	"

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

Jeremy Espinoza
Project Number: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

PH01-B02@10'

8/1/2022 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208032-13 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H0119	08/01/2022	08/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	"	"	"
Surrogate: Toluene-d8	109 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.3 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L630318	08/04/2022	08/05/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	58.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	69.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	59.2 %	29-110	"	"	"

Table 915 metals by EPA 6020B

Barium	10.7	8.43	mg/kg	5	B2H0213	08/02/2022	08/04/2022	
Selenium	ND	0.0843	"	"	"	"	"	U

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA 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 B2H0119 - EPA 5030 (soil)										
Blank (B2H0119-BLK1)					Prepared: 08/01/2022 Analyzed: 08/01/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H0119 - EPA 5030 (soil)

LCS (B2H0119-BS1)

Prepared: 08/01/2022 Analyzed: 08/01/2022

1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg	0.100		113	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Benzene	0.102	0.00200	"	0.100		102	70-130			
Ethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Naphthalene	0.110	0.0100	"	0.100		110	70-130			
Toluene	0.110	0.00200	"	0.100		110	70-130			
o-Xylene	0.113	0.00200	"	0.100		113	70-130			
m,p-Xylene	0.228	0.00400	"	0.200		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Jeremy Espinoza
Project Number: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H0119 - EPA 5030 (soil)

Matrix Spike (B2H0119-MS1)		Source: Y208025-01			Prepared: 08/01/2022 Analyzed: 08/01/2022					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130			
Benzene	0.0939	0.00200	"	0.100	ND	93.9	70-130			
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Naphthalene	0.0972	0.0100	"	0.100	0.00240	94.8	70-130			
Toluene	0.101	0.00200	"	0.100	ND	101	70-130			
o-Xylene	0.106	0.00200	"	0.100	ND	106	70-130			
m,p-Xylene	0.213	0.00400	"	0.200	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2H0119 - EPA 5030 (soil)										
Matrix Spike Dup (B2H0119-MSD1)		Source: Y208025-01			Prepared: 08/01/2022 Analyzed: 08/01/2022					
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130	2.64	20	
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	2.43	20	
Benzene	0.0944	0.00200	"	0.100	ND	94.4	70-130	0.510	20	
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	0.792	20	
Naphthalene	0.0997	0.0100	"	0.100	0.00240	97.3	70-130	2.58	20	
Toluene	0.101	0.00200	"	0.100	ND	101	70-130	0.396	20	
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130	0.723	20	
m,p-Xylene	0.211	0.00400	"	0.200	ND	105	70-130	0.936	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Project: KMG - Hunter, Hunter 9&16-32 OSA 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 B2H0125 - EPA 5030 (soil)										
Blank (B2H0125-BLK1)					Prepared: 08/01/2022 Analyzed: 08/01/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	107		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	94.3		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	90.4		70-130			

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Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H0125 - EPA 5030 (soil)

LCS (B2H0125-BS1)

Prepared: 08/01/2022 Analyzed: 08/01/2022

1,2,4-Trimethylbenzene	0.0961	0.00200	mg/kg	0.100		96.1	70-130			
1,3,5-Trimethylbenzene	0.0970	0.00200	"	0.100		97.0	70-130			
Benzene	0.111	0.00200	"	0.100		111	70-130			
Ethylbenzene	0.0954	0.00200	"	0.100		95.4	70-130			
Naphthalene	0.107	0.0100	"	0.100		107	70-130			
Toluene	0.0994	0.00200	"	0.100		99.4	70-130			
o-Xylene	0.0984	0.00200	"	0.100		98.4	70-130			
m,p-Xylene	0.193	0.00400	"	0.200		96.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.6	70-130			

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Jeremy Espinoza
Project Number: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H0125 - EPA 5030 (soil)

Matrix Spike (B2H0125-MS1)		Source: Y208031-07			Prepared: 08/01/2022 Analyzed: 08/01/2022					
1,2,4-Trimethylbenzene	0.0787	0.00200	mg/kg	0.100	ND	78.7	70-130			
1,3,5-Trimethylbenzene	0.0784	0.00200	"	0.100	ND	78.4	70-130			
Benzene	0.0874	0.00200	"	0.100	ND	87.4	70-130			
Ethylbenzene	0.0807	0.00200	"	0.100	ND	80.7	70-130			
Naphthalene	0.0830	0.0100	"	0.100	ND	83.0	70-130			
Toluene	0.0801	0.00200	"	0.100	ND	80.1	70-130			
o-Xylene	0.0817	0.00200	"	0.100	ND	81.7	70-130			
m,p-Xylene	0.169	0.00400	"	0.200	ND	84.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA 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 B2H0125 - EPA 5030 (soil)										
Matrix Spike Dup (B2H0125-MSD1)			Source: Y208031-07		Prepared: 08/01/2022 Analyzed: 08/01/2022					
1,2,4-Trimethylbenzene	0.0818	0.00200	mg/kg	0.100	ND	81.8	70-130	3.86	20	
1,3,5-Trimethylbenzene	0.0804	0.00200	"	0.100	ND	80.4	70-130	2.59	20	
Benzene	0.0908	0.00200	"	0.100	ND	90.8	70-130	3.86	20	
Ethylbenzene	0.0827	0.00200	"	0.100	ND	82.7	70-130	2.42	20	
Naphthalene	0.0889	0.0100	"	0.100	ND	88.9	70-130	6.96	20	
Toluene	0.0817	0.00200	"	0.100	ND	81.7	70-130	1.95	20	
o-Xylene	0.0844	0.00200	"	0.100	ND	84.4	70-130	3.25	20	
m,p-Xylene	0.165	0.00400	"	0.200	ND	82.3	70-130	2.57	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by SM 3500 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H0213 - Default Prep Metals

Blank (B2H0213-BLK1)

Prepared: 08/02/2022 Analyzed: 08/04/2022

Barium	ND	0.0100	mg/kg							U
Selenium	ND	0.000100	"							U

LCS (B2H0213-BS1)

Prepared: 08/02/2022 Analyzed: 08/04/2022

Barium	5.19	0.0100	mg/kg	5.00		104	80-120			
Selenium	0.0480	0.000100	"	0.0500		95.9	80-120			

Matrix Spike (B2H0213-MS1)

Source: Y207604-01

Prepared: 08/02/2022 Analyzed: 08/04/2022

Barium	1140	1.85	mg/kg	924	153	107	75-125			
Selenium	9.44	0.0185	"	9.24	0.271	99.2	75-125			

Matrix Spike Dup (B2H0213-MSD1)

Source: Y207604-01

Prepared: 08/02/2022 Analyzed: 08/04/2022

Barium	1140	1.93	mg/kg	964	153	102	75-125	0.599	20	
Selenium	9.67	0.0193	"	9.64	0.271	97.5	75-125	2.46	20	

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11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
Project Number: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L630318 - 3550B

MSD (L 94634-MSD-L630318)		Source: 94634			Prepared: 08/04/2022 Analyzed: 08/05/2022					
Naphthalene	0.0919	0.000484	mg/Kg	0.165	<0.000484	55.6	30-130	4.9	30	
2-Methylnaphthalene	0.0954	0.000645	"	0.165	<0.000645	57.8	30-130	3.3	30	
1-Methylnaphthalene	0.0969	0.000364	"	0.165	<0.000364	58.7	30-130	3.5	30	
Surrogate: 2-Fluorobiphenyl	58.7		"	0.33	193	58.7	33-115			
Surrogate: Nitrobenzene-d5	59.3		"	0.33	197	59.3	29-110			
Surrogate: 4-Terphenyl-d14	70		"	0.33	242	70	33-122			

MS (L 94634-MS-L630318)		Source: 94634			Prepared: 08/04/2022 Analyzed: 08/05/2022					
2-Methylnaphthalene	0.0923	0.000645	mg/Kg	0.163	<0.000645	56.6	30-130			
1-Methylnaphthalene	0.0935	0.000364	"	0.163	<0.000364	57.3	30-130			
Naphthalene	0.0875	0.000484	"	0.163	<0.000484	53.6	30-130			
Surrogate: Nitrobenzene-d5	56.2		"	0.327	197	56.2	29-110			
Surrogate: 4-Terphenyl-d14	77		"	0.327	242	77	33-122			
Surrogate: 2-Fluorobiphenyl	57.1		"	0.327	193	57.1	33-115			

LCS (LCS-L630318)		Prepared: 08/04/2022 Analyzed: 08/05/2022								
Naphthalene	0.0921	0.000484	mg/Kg	0.167		55.1	30-130			
2-Methylnaphthalene	0.0972	0.000645	"	0.167		58.2	30-130			
1-Methylnaphthalene	0.0986	0.000364	"	0.167		59	30-130			
Surrogate: Nitrobenzene-d5	67.2		"	0.333		67.2	29-110			
Surrogate: 4-Terphenyl-d14	77.1		"	0.333		77.1	33-122			
Surrogate: 2-Fluorobiphenyl	69.9		"	0.333		69.9	33-115			

LRB (LRB-L630318)		Prepared: 08/04/2022 Analyzed: 08/05/2022								
Naphthalene	ND	0.00067	mg/Kg			-				
2-Methylnaphthalene	ND	0.00067	"			-				
1-Methylnaphthalene	ND	0.00067	"			-				
Surrogate: 2-Fluorobiphenyl	59.7		"	0.333		59.7	33-115			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L630318 - 3550B

LRB (LRB-L630318)

Prepared: 08/04/2022 Analyzed: 08/05/2022

Surrogate: 4-Terphenyl-d14	72.6		mg/Kg	0.333		72.6	33-122			
Surrogate: Nitrobenzene-d5	56.1		"	0.333		56.1	29-110			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L630235 - 3550B

MSD (L 94564-MSD-L630235)		Source: 94564			Prepared: 08/04/2022 Analyzed: 08/05/2022					
1-Methylnaphthalene	0.0862	0.000364	mg/Kg	0.162	<0.000364	53.2	30-130	15.8	30	
2-Methylnaphthalene	0.0869	0.000645	"	0.162	<0.000645	53.6	30-130	15	30	
Naphthalene	0.0833	0.000484	"	0.162	<0.000484	51.4	30-130	16.3	30	
Surrogate: 2-Fluorobiphenyl	58.1		"	0.325	195	58.1	33-115			
Surrogate: 4-Terphenyl-d14	64		"	0.325	230	64	33-122			
Surrogate: Nitrobenzene-d5	51		"	0.325	177	51	29-110			

MS (L 94564-MS-L630235)		Source: 94564			Prepared: 08/04/2022 Analyzed: 08/05/2022					
2-Methylnaphthalene	0.101	0.000645	mg/Kg	0.163	<0.000645	61.9	30-130			
1-Methylnaphthalene	0.101	0.000364	"	0.163	<0.000364	61.9	30-130			
Naphthalene	0.0981	0.000484	"	0.163	<0.000484	60.1	30-130			
Surrogate: 4-Terphenyl-d14	73.3		"	0.326	230	73.3	33-122			
Surrogate: Nitrobenzene-d5	55.5		"	0.326	177	55.5	29-110			
Surrogate: 2-Fluorobiphenyl	64.1		"	0.326	195	64.1	33-115			

LCS (LCS-L630235)		Prepared: 08/04/2022 Analyzed: 08/05/2022								
2-Methylnaphthalene	0.103	0.000645	mg/Kg	0.167		61.6	30-130			
1-Methylnaphthalene	0.101	0.000364	"	0.167		60.4	30-130			
Naphthalene	0.0992	0.000484	"	0.167		59.4	30-130			
Surrogate: Nitrobenzene-d5	62.7		"	0.333		62.7	29-110			
Surrogate: 4-Terphenyl-d14	80.1		"	0.333		80.1	33-122			
Surrogate: 2-Fluorobiphenyl	72.6		"	0.333		72.6	33-115			

LRB (LRB-L630235)		Prepared: 08/04/2022 Analyzed: 08/05/2022								
2-Methylnaphthalene	ND	0.00067	mg/Kg			-				
Naphthalene	ND	0.00067	"			-				
1-Methylnaphthalene	ND	0.00067	"			-				
Surrogate: 2-Fluorobiphenyl	64.5		"	0.333		64.5	33-115			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09a1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L630235 - 3550B

LRB (LRB-L630235)

Prepared: 08/04/2022 Analyzed: 08/05/2022

Surrogate: 4-Terphenyl-d14	70.8		mg/Kg	0.333		70.8	33-122			
Surrogate: Nitrobenzene-d5	59.7		"	0.333		59.7	29-110			

Origins Laboratory, Inc.



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analytical report must be reproduced in its entirety.

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09a1417066

Project: KMG - Hunter, Hunter 9&16-32 OSA
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.

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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

August 15, 2022

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - Hunter, Hunter 9&16-32
OSA Facility**

Project Number - [none]

Attached are your analytical results for KMG - Hunter, Hunter 9&16-32 OSA Facility received by Origins Laboratory, Inc. August 04, 2022. This project is associated with Origins project number Y208122-01.

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: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sep01-Outlet-N03@5'	Y208122-01	Soil	August 4, 2022 14:30	08/04/2022 16:50
Sep01-Outlet-W07@5'	Y208122-02	Soil	August 4, 2022 14:35	08/04/2022 16:50
Sep01-Outlet-B10@11.5	Y208122-03	Soil	August 4, 2022 14:40	08/04/2022 16:50
Sep01-Outlet-B11@10'	Y208122-04	Soil	August 4, 2022 14:45	08/04/2022 16:50
Sep01-Outlet-S07@5'	Y208122-05	Soil	August 4, 2022 14:50	08/04/2022 16:50

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: [none]

Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

ORIGINS
LABORATORY, INC

470822

www.originslaboratory.com

page 1 of 1

Client: Ensolum

Project Manager: Jeremy Espinoza

Address:



Project Name: Hunter, Hunter 9&16-32 OSA Facility

Telephone Number:

Project Number: 084477066

Email Address: Ensolum Oxy Team

Samples Collected By: Glenn Thompson

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis			Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	Benzene		TMBS
Sep01-Outlet-N0305'	8-4-22	1430	2	X					X		X	X	X	1
Sep01-Outlet-N0705'		1435	2	X					X		X	X	X	2
Sep01-Outlet-R10+11.5'		1440	2	X					X		X	X	X	3
Sep01-Outlet-R11+10'		1445	2	X					X		X	X	X	4
Sep01-Outlet-S0705'		1450	2	X					X		X	X	X	5
														6
														7
														8
														9
														10
Relinquished By: 	Date: 8-4-22	Time:	Received By: 	Date: 8/4/22	Time: 14:50	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>								
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Standard <input type="checkbox"/>								

Relinquished By: [Signature]

Date: 8-4-22

Time:

Received By: [Signature]

Date: 8/4/22

Time: 16:50

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

Temp Received: 10.3

Date Results Needed

Origins Laboratory, Inc.

[Signature]

Jen Pellegrini, Project Manager

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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: [none]

Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Origins Laboratory

Origins Work Order: 4208122

Checklist Completed by: TSM

Date/time completed: 8/18/22

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

Cooler Number/Temperature: 1 10.3 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: T004

Sample Receipt Checklist

Client: Ensolum

Client Project ID: Hunter, Hunter 9 & 16-32 OSA F0

Shipped Via: HD

Airbill #: RTP (URS, Ex, Hand Delivered, Pick-up, etc.)

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

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>Same day</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"/>	<u>no cooler js</u>
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): Cost

Date/Time Reviewed: 8/18/22

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Sep01-Outlet-N03@5'

8/4/2022 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208122-01 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	5.77		0.0500	mg/kg	25	B2H0427	08/04/2022	08/05/2022	
1,3,5-Trimethylbenzene	0.910		0.0500	"	"	"	"	"	
Benzene	0.333		0.0500	"	"	"	"	"	

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

PAH by 8270D SIM

1-Methylnaphthalene	0.979	0.00364	0.0067	mg/Kg	10	L631385	08/10/2022	08/11/2022	
2-Methylnaphthalene	1.83	0.00645	0.0067	"	"	"	"	"	
Naphthalene	0.478	0.00484	0.0067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	76.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	88.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	71.7 %		29-110			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Sep01-Outlet-W07@5'
8/4/2022 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208122-02 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2H0427	08/04/2022	08/05/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			"	"	"	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L631385	08/10/2022	08/11/2022	
2-Methylnaphthalene	0.000697	0.000645	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	62.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	81.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	62.8 %		29-110			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Sep01-Outlet-B10@11.5

8/4/2022 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208122-03 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H0427	08/04/2022	08/05/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L631385	08/10/2022	08/11/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	68.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	79.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	66.4 %	29-110	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Sep01-Outlet-B11@10'

8/4/2022 2:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208122-04 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H0427	08/04/2022	08/05/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	99.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L631385	08/10/2022	08/11/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	69.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	82.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	71.5 %	29-110	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Sep01-Outlet-S07@5'

8/4/2022 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208122-05 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	2.81		0.0500	mg/kg	25	B2H0427	08/04/2022	08/05/2022	
1,3,5-Trimethylbenzene	1.05		0.0500	"	"	"	"	"	
Benzene	0.00406		0.00200	"	1	"	"	08/05/2022	

Surrogate: 1,2-Dichloroethane-d4	123 %		70-130			"	"	"	
Surrogate: Toluene-d8	104 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	278 %		70-130			"	"	"	S-GC

PAH by 8270D SIM

1-Methylnaphthalene	0.87	0.00182	0.00335	mg/Kg	5	L631385	08/10/2022	08/11/2022	
2-Methylnaphthalene	1.56	0.00323	0.00335	"	"	"	"	"	
Naphthalene	0.375	0.00242	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	82.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	87.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	70.9 %		29-110			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA
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 B2H0427 - EPA 5030 (soil)										
Blank (B2H0427-BLK1)					Prepared: 08/04/2022 Analyzed: 08/04/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	103		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	103		70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H0427 - EPA 5030 (soil)

LCS (B2H0427-BS1)

Prepared: 08/04/2022 Analyzed: 08/04/2022

1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Benzene	0.104	0.00200	"	0.100		104	70-130			
Ethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Naphthalene	0.105	0.0100	"	0.100		105	70-130			
Toluene	0.107	0.00200	"	0.100		107	70-130			
o-Xylene	0.108	0.00200	"	0.100		108	70-130			
m,p-Xylene	0.217	0.00400	"	0.200		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H0427 - EPA 5030 (soil)

Matrix Spike (B2H0427-MS1)		Source: Y208016-01			Prepared: 08/04/2022 Analyzed: 08/04/2022					
1,2,4-Trimethylbenzene	0.0647	0.00200	mg/kg	0.100	ND	64.7	70-130			QM-07
1,3,5-Trimethylbenzene	0.0624	0.00200	"	0.100	ND	62.4	70-130			QM-07
Benzene	0.0797	0.00200	"	0.100	ND	79.7	70-130			
Ethylbenzene	0.0794	0.00200	"	0.100	ND	79.4	70-130			
Naphthalene	0.0655	0.0100	"	0.100	0.00142	64.1	70-130			QM-07
Toluene	0.0816	0.00200	"	0.100	0.000540	81.0	70-130			
o-Xylene	0.0819	0.00200	"	0.100	ND	81.9	70-130			
m,p-Xylene	0.163	0.00400	"	0.200	ND	81.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H0427 - EPA 5030 (soil)

Matrix Spike Dup (B2H0427-MSD1)		Source: Y208016-01			Prepared: 08/04/2022 Analyzed: 08/04/2022					
1,2,4-Trimethylbenzene	0.0469	0.00200	mg/kg	0.100	ND	46.9	70-130	31.9	20	QM-07
1,3,5-Trimethylbenzene	0.0448	0.00200	"	0.100	ND	44.8	70-130	32.9	20	QM-07
Benzene	0.0715	0.00200	"	0.100	ND	71.5	70-130	10.8	20	
Ethylbenzene	0.0657	0.00200	"	0.100	ND	65.7	70-130	18.8	20	QM-07
Naphthalene	0.0517	0.0100	"	0.100	0.00142	50.3	70-130	23.5	20	QM-07
Toluene	0.0709	0.00200	"	0.100	0.000540	70.3	70-130	14.0	20	
o-Xylene	0.0675	0.00200	"	0.100	ND	67.5	70-130	19.3	20	QM-07
m,p-Xylene	0.132	0.00400	"	0.200	ND	66.1	70-130	20.6	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		113	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L631385 - 3550B

MSD (L 96227-MSD-L631385)		Source: Y208122-01			Prepared: 08/10/2022 Analyzed: 08/11/2022					
2-Methylnaphthalene	1.01	0.00645	mg/Kg	0.162	1.83	NR	30-130	22	30	*
Naphthalene	0.443	0.00484	"	0.162	0.478	NR	30-130	4.8	30	*
1-Methylnaphthalene	0.655	0.00364	"	0.162	0.979	NR	30-130	22.7	30	*
Surrogate: 2-Fluorobiphenyl	68		"	0.325	254	68	33-115			
Surrogate: 4-Terphenyl-d14	80.9		"	0.325	293	80.9	33-122			
Surrogate: Nitrobenzene-d5	58.7		"	0.325	238	58.7	29-110			
MS (L 96227-MS-L631385)		Source: Y208122-01			Prepared: 08/10/2022 Analyzed: 08/11/2022					
1-Methylnaphthalene	0.823	0.00364	mg/Kg	0.166	0.979	NR	30-130			*
Naphthalene	0.465	0.00484	"	0.166	0.478	NR	30-130			*
2-Methylnaphthalene	1.26	0.00645	"	0.166	1.83	NR	30-130			*
Surrogate: Nitrobenzene-d5	60.4		"	0.331	238	60.4	29-110			
Surrogate: 4-Terphenyl-d14	95.7		"	0.331	293	95.7	33-122			
Surrogate: 2-Fluorobiphenyl	73.4		"	0.331	254	73.4	33-115			
LCS (LCS-L631385)		Prepared: 08/10/2022 Analyzed: 08/11/2022								
1-Methylnaphthalene	0.0934	0.000364	mg/Kg	0.167		55.9	30-130			
2-Methylnaphthalene	0.093	0.000645	"	0.167		55.6	30-130			
Naphthalene	0.0918	0.000484	"	0.167		54.9	30-130			
Surrogate: 2-Fluorobiphenyl	64.5		"	0.333		64.5	33-115			
Surrogate: 4-Terphenyl-d14	82.8		"	0.333		82.8	33-122			
Surrogate: Nitrobenzene-d5	57.6		"	0.333		57.6	29-110			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L631385 - 3550B

LRB (LRB-L631385)

Prepared: 08/10/2022 Analyzed: 08/11/2022

1-Methylnaphthalene	ND	0.00067	mg/Kg				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	59.1		"	0.333	59.1		29-110			
Surrogate: 2-Fluorobiphenyl	61.5		"	0.333	61.5		33-115			
Surrogate: 4-Terphenyl-d14	77.7		"	0.333	77.7		33-122			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: [none]

Project: KMG - Hunter, Hunter 9&16-32 OSA
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.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

August 25, 2022

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - Hunter, Hunter 9&16-32
OSA Facility**

Project Number - 09A1417066

Attached are your analytical results for KMG - Hunter, Hunter 9&16-32 OSA Facility received by Origins Laboratory, Inc. August 11, 2022. This project is associated with Origins project number Y208284-01.

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: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP01 Outlet W08@5'	Y208284-01	Soil	August 11, 2022 15:35	08/11/2022 18:20
SEP01 Outlet N04@5'	Y208284-02	Soil	August 11, 2022 15:40	08/11/2022 18:20
SEP01 Outlet N05@5'	Y208284-03	Soil	August 11, 2022 15:45	08/11/2022 18:20
SEP01 Outlet E06@5'	Y208284-04	Soil	August 11, 2022 15:50	08/11/2022 18:20
SEP01 Outlet E07@5'	Y208284-05	Soil	August 11, 2022 15:55	08/11/2022 18:20
SEP01 Outlet B12@10'	Y208284-06	Soil	August 11, 2022 16:00	08/11/2022 18:20
SEP01 Outlet B13@10'	Y208284-07	Soil	August 11, 2022 16:05	08/11/2022 18:20
SEP01 Outlet W09@5'	Y208284-08	Soil	August 11, 2022 16:10	08/11/2022 18:20
SEP01 Outlet S08@5'	Y208284-09	Soil	August 11, 2022 16:15	08/11/2022 18:20
SEP01 Outlet E05@5'	Y208284-10	Soil	August 11, 2022 16:20	08/11/2022 18:20
SEP01 Outlet B14@10'	Y208284-11	Soil	August 11, 2022 16:25	08/11/2022 18:20
SEP01 Outlet B15@10'	Y208284-12	Soil	August 11, 2022 16:30	08/11/2022 18:20

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417066

Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

ORIGINS
LABORATORY, INC

www.originslaboratory.com

page | of |

Client: Ensolum

Address: _____

Telephone Number: _____



Email Address: Ensolum_Oxy_Team

Project Manager: Jeremy Espinoza

Project Name: Hunter Hunter 9&16-32 OSA Facility

Project Number: 09A1417066

Samples Collected By: Glen Thompson

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	Benzene	TMBs		1,2 methyl naphthalene
Soil outlet W0805	8-11-22	1535	2	X				X					X	X	1
Soil outlet N0405		1540													2
Soil outlet N0505		1545													3
Soil outlet E0605		1550													4
Soil outlet E0705		1555													5
Soil outlet B12010		1600													6
Soil outlet B15010		1605													7
Soil outlet W1005		1610													8
Soil outlet S0805		1615													9
Soil outlet E0505		1620													10
Soil outlet B14010		1625													
Soil outlet B15010		1630													
Relinquished By: 	Date: 8-11-22	Time: _____	Received By: 	Date: 8/11/22	Time: 18:20	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard									

Temp Received: 12.1

Date Results Needed

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y208284

Client: Ensolum

Client Project ID: Hunter, Hunter 9&16-32 OSA Facility

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

Airbill #: N/A

Checklist Completed by: MS

Date/time completed: 8/11/2022

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

Cooler Number/Temperature: 110-1°C 1 °C 1 °C (Describe) °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<u>x</u>		<u>same day</u>
Is there ice present (document if blue ice is used)	<u>A</u>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<u>A</u>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<u>A</u>		
Were all samples received intact ⁽¹⁾ ?	<u>A</u>			
Was adequate sample volume provided ⁽¹⁾ ?	<u>A</u>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<u>9</u>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<u>A</u>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u>A</u>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u>A</u>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<u>A</u>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<u>A</u>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<u>A</u>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 8/11/2022

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01 Outlet W08@5'
8/11/2022 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208284-01 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H1125	08/11/2022	08/13/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.9 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L633527	08/23/2022	08/23/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	59.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	70.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	62.8 %	29-110	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01 Outlet N04@5'
8/11/2022 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208284-02 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H1125	08/11/2022	08/12/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	106 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.8 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L633032	08/19/2022	08/19/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	66.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	84.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	52 %	29-110	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01 Outlet N05@5'
8/11/2022 3:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208284-03 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	4.61		0.0500	mg/kg	25	B2H1125	08/11/2022	08/12/2022	
1,3,5-Trimethylbenzene	1.73		0.0500	"	"	"	"	"	
Benzene	0.117		0.00200	"	1	"	"	08/12/2022	

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130			"	"	"	
Surrogate: Toluene-d8	128 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.445	0.00182	0.00335	mg/Kg	5	L633032	08/19/2022	08/19/2022	
2-Methylnaphthalene	0.736	0.00323	0.00335	"	"	"	"	"	
Naphthalene	0.162	0.00242	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	73.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	89.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	50.5 %		29-110			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01 Outlet E06@5'
8/11/2022 3:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208284-04 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.344		0.00200	mg/kg	1	B2H1125	08/11/2022	08/12/2022	
1,3,5-Trimethylbenzene	0.103		0.00200	"	"	"	"	"	
Benzene	0.0585		0.0500	"	25	"	"	08/13/2022	

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			"	"	08/12/2022	
Surrogate: Toluene-d8	108 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

PAH by 8270D SIM

Naphthalene	0.00386	0.00242	0.00335	mg/Kg	5	L633527	08/23/2022	08/23/2022	
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PAH by 8270D SIM

1-Methylnaphthalene	0.0235	0.00182	0.00335	mg/Kg	5	L633032	08/19/2022	08/19/2022	
2-Methylnaphthalene	0.0387	0.00323	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	64.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	101 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	53.6 %		29-110			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01 Outlet E07@5'

8/11/2022 3:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208284-05 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	27.3		0.500	mg/kg	250	B2H1125	08/11/2022	08/13/2022	
1,3,5-Trimethylbenzene	4.03		0.0500	"	25	"	"	08/12/2022	
Benzene	2.01		0.0500	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %		70-130			"	"	"	
Surrogate: Toluene-d8	115 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	87.3 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	1.01	0.00182	0.00335	mg/Kg	5	L633032	08/19/2022	08/19/2022	
2-Methylnaphthalene	1.84	0.00323	0.00335	"	"	"	"	"	
Naphthalene	0.404	0.00242	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	80.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	95.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	54.2 %		29-110			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01 Outlet B12@10'

8/11/2022 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208284-06 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H1125	08/11/2022	08/13/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	08/12/2022	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	106 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L633527	08/23/2022	08/23/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	61.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	73.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	65.4 %	29-110	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01 Outlet B13@10'

8/11/2022 4:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208284-07 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H1125	08/11/2022	08/12/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	107 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.0 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L633527	08/23/2022	08/23/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	58.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	75.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	62.1 %	29-110	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01 Outlet W09@5'
8/11/2022 4:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208284-08 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H1128	08/11/2022	08/12/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

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

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L633527	08/23/2022	08/23/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	51.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	66.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	55.4 %	29-110	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01 Outlet S08@5'

8/11/2022 4:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208284-09 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H1128	08/11/2022	08/12/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	"	"	"
Surrogate: Toluene-d8	103 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130	"	"	"

PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L633111	08/19/2022	08/20/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	59 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	69.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	50.2 %	29-110	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01 Outlet E05@5'

8/11/2022 4:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208284-10 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H1128	08/11/2022	08/12/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	103 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130	"	"	"

PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L633111	08/19/2022	08/20/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	46.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	69.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	39.8 %	29-110	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01 Outlet B14@10'

8/11/2022 4:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208284-11 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00492		0.00200	mg/kg	1	B2H1128	08/11/2022	08/12/2022	
1,3,5-Trimethylbenzene	0.00790		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			"	"	"	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L633111	08/19/2022	08/20/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	59 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	69.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	49.7 %		29-110			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01 Outlet B15@10'

8/11/2022 4:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208284-12 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H1128	08/11/2022	08/12/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.9 %	70-130	"	"	"

PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L633111	08/19/2022	08/20/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	65.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	74.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	54.3 %	29-110	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA 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 B2H1125 - EPA 5030 (soil)										
Blank (B2H1125-BLK1)					Prepared: 08/11/2022 Analyzed: 08/12/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	101		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	107		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	95.9		70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H1125 - EPA 5030 (soil)

LCS (B2H1125-BS1)

Prepared: 08/11/2022 Analyzed: 08/12/2022

1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Naphthalene	0.110	0.00380	"	0.100		110	70-130			
Toluene	0.104	0.00200	"	0.100		104	70-130			
o-Xylene	0.108	0.00200	"	0.100		108	70-130			
m,p-Xylene	0.215	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H1125 - EPA 5030 (soil)

Matrix Spike (B2H1125-MS1)		Source: Y208282-01			Prepared: 08/11/2022 Analyzed: 08/12/2022					
1,2,4-Trimethylbenzene	0.0880	0.00200	mg/kg	0.100	ND	88.0	70-130			
1,3,5-Trimethylbenzene	0.0903	0.00200	"	0.100	ND	90.3	70-130			
Benzene	0.0948	0.00200	"	0.100	ND	94.8	70-130			
Ethylbenzene	0.0904	0.00200	"	0.100	ND	90.4	70-130			
Naphthalene	0.0893	0.00380	"	0.100	0.000580	88.8	70-130			
Toluene	0.0941	0.00200	"	0.100	ND	94.1	70-130			
o-Xylene	0.0950	0.00200	"	0.100	ND	95.0	70-130			
m,p-Xylene	0.185	0.00400	"	0.200	ND	92.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA 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 B2H1125 - EPA 5030 (soil)										
Matrix Spike Dup (B2H1125-MSD1)		Source: Y208282-01			Prepared: 08/11/2022 Analyzed: 08/12/2022					
1,2,4-Trimethylbenzene	0.0889	0.00200	mg/kg	0.100	ND	88.9	70-130	0.950	20	
1,3,5-Trimethylbenzene	0.0899	0.00200	"	0.100	ND	89.9	70-130	0.355	20	
Benzene	0.0884	0.00200	"	0.100	ND	88.4	70-130	6.97	20	
Ethylbenzene	0.0869	0.00200	"	0.100	ND	86.9	70-130	4.02	20	
Naphthalene	0.0948	0.00380	"	0.100	0.000580	94.2	70-130	5.89	20	
Toluene	0.0921	0.00200	"	0.100	ND	92.1	70-130	2.10	20	
o-Xylene	0.0921	0.00200	"	0.100	ND	92.1	70-130	3.10	20	
m,p-Xylene	0.178	0.00400	"	0.200	ND	89.0	70-130	4.15	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	70-130			

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Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA 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 B2H1128 - EPA 5030 (soil)										
Blank (B2H1128-BLK1)					Prepared: 08/11/2022 Analyzed: 08/12/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	105		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.4		70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H1128 - EPA 5030 (soil)

LCS (B2H1128-BS1)

Prepared: 08/11/2022 Analyzed: 08/12/2022

1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Benzene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Naphthalene	0.118	0.00380	"	0.100		118	70-130			
Toluene	0.108	0.00200	"	0.100		108	70-130			
o-Xylene	0.112	0.00200	"	0.100		112	70-130			
m,p-Xylene	0.222	0.00400	"	0.200		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	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.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H1128 - EPA 5030 (soil)

Matrix Spike (B2H1128-MS1)		Source: Y208284-08			Prepared: 08/11/2022 Analyzed: 08/12/2022					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Benzene	0.100	0.00200	"	0.100	ND	100	70-130			
Ethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Naphthalene	0.111	0.00380	"	0.100	0.000740	111	70-130			
Toluene	0.104	0.00200	"	0.100	ND	104	70-130			
o-Xylene	0.108	0.00200	"	0.100	ND	108	70-130			
m,p-Xylene	0.212	0.00400	"	0.200	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA 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 B2H1128 - EPA 5030 (soil)										
Matrix Spike Dup (B2H1128-MSD1)		Source: Y208284-08			Prepared: 08/11/2022 Analyzed: 08/12/2022					
1,2,4-Trimethylbenzene	0.0981	0.00200	mg/kg	0.100	ND	98.1	70-130	2.62	20	
1,3,5-Trimethylbenzene	0.0989	0.00200	"	0.100	ND	98.9	70-130	2.83	20	
Benzene	0.0980	0.00200	"	0.100	ND	98.0	70-130	2.02	20	
Ethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130	4.95	20	
Naphthalene	0.108	0.00380	"	0.100	0.000740	108	70-130	2.62	20	
Toluene	0.101	0.00200	"	0.100	ND	101	70-130	2.84	20	
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130	3.42	20	
m,p-Xylene	0.203	0.00400	"	0.200	ND	102	70-130	4.46	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L633527 - 3550B

MSD (L 87351-MSD-L633527)			Source: 87351			Prepared: 08/23/2022 Analyzed: 08/23/2022				
Naphthalene	0.0984	0.000484	mg/Kg	0.166	87351	59.2	30-130	38.1	30	
2-Methylnaphthalene	0.101	0.000645	"	0.166	87351	60.8	30-130	35.8	30	
1-Methylnaphthalene	0.102	0.000364	"	0.166	87351	61.4	30-130	36.6	30	
Surrogate: Nitrobenzene-d5	59.8		"	0.331	202	59.8	29-110			
Surrogate: 4-Terphenyl-d14	76.1		"	0.331	237	76.1	33-122			
Surrogate: 2-Fluorobiphenyl	60.7		"	0.331	198	60.7	33-115			
MS (L 87351-MS-L633527)			Source: 87351			Prepared: 08/23/2022 Analyzed: 08/23/2022				
Naphthalene	0.0669	0.000484	mg/Kg	0.166	87351	40.3	30-130			
1-Methylnaphthalene	0.0704	0.000364	"	0.166	87351	42.4	30-130			
2-Methylnaphthalene	0.0703	0.000645	"	0.166	87351	42.3	30-130			
Surrogate: 4-Terphenyl-d14	48		"	0.331	237	48	33-122			
Surrogate: Nitrobenzene-d5	43.2		"	0.331	202	43.2	29-110			
Surrogate: 2-Fluorobiphenyl	41.3		"	0.331	198	41.3	33-115			
LCS (LCS-L633527)			Prepared: 08/23/2022 Analyzed: 08/23/2022							
Naphthalene	0.0671	0.000484	mg/Kg	0.167		40.1	30-130			
1-Methylnaphthalene	0.0702	0.000364	"	0.167		42	30-130			
2-Methylnaphthalene	0.07	0.000645	"	0.167		41.9	30-130			
Surrogate: 2-Fluorobiphenyl	44.7		"	0.333		44.7	33-115			
Surrogate: 4-Terphenyl-d14	49.8		"	0.333		49.8	33-122			
Surrogate: Nitrobenzene-d5	48.9		"	0.333		48.9	29-110			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L633527 - 3550B

LRB (LRB-L633527)

Prepared: 08/23/2022 Analyzed: 08/23/2022

Naphthalene	ND	0.00067	mg/Kg				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	63.6		"	0.333	63.6		33-115			
Surrogate: 4-Terphenyl-d14	69		"	0.333	69		33-122			
Surrogate: Nitrobenzene-d5	64.8		"	0.333	64.8		29-110			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
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Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L633032 - 3550B

MSD (L 87356-MSD-L633032)	Source: 87356			Prepared: 08/19/2022 Analyzed: 08/19/2022						
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Naphthalene	29.7	0.0968	mg/Kg	0.164	32.2	NR	30-130	10.6	30	*
2-Methylnaphthalene	63.6	0.129	"	0.164	69.9	NR	30-130	9.7	30	*
1-Methylnaphthalene	47.7	0.0728	"	0.164	52.1	NR	30-130	10.1	30	*
Surrogate: Nitrobenzene-d5	334		"	0.329	1350	334	29-110			*
Surrogate: 4-Terphenyl-d14	68.6		"	0.329	237	68.6	33-122			
Surrogate: 2-Fluorobiphenyl	98.4		"	0.329	351	98.4	33-115			

MS (L 87356-MS-L633032)	Source: 87356			Prepared: 08/19/2022 Analyzed: 08/19/2022						
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Naphthalene	26.7	0.0968	mg/Kg	0.164	32.2	NR	30-130			*
1-Methylnaphthalene	43.1	0.0728	"	0.164	52.1	NR	30-130			*
2-Methylnaphthalene	57.7	0.129	"	0.164	69.9	NR	30-130			*
Surrogate: 2-Fluorobiphenyl	95.7		"	0.329	351	95.7	33-115			
Surrogate: 4-Terphenyl-d14	93		"	0.329	237	93	33-122			
Surrogate: Nitrobenzene-d5	278		"	0.329	1350	278	29-110			*

LCS (LCS-L633032)	Prepared: 08/19/2022 Analyzed: 08/19/2022									
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1-Methylnaphthalene	0.11	0.000364	mg/Kg	0.167		65.8	30-130			
2-Methylnaphthalene	0.1	0.000645	"	0.167		59.8	30-130			
Naphthalene	0.0926	0.000484	"	0.167		55.4	30-130			
Surrogate: 2-Fluorobiphenyl	75.9		"	0.333		75.9	33-115			
Surrogate: 4-Terphenyl-d14	87.3		"	0.333		87.3	33-122			
Surrogate: Nitrobenzene-d5	53.4		"	0.333		53.4	29-110			

LRB (LRB-L633032)	Prepared: 08/19/2022 Analyzed: 08/19/2022									
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1-Methylnaphthalene	ND	0.00067	mg/Kg			-				
2-Methylnaphthalene	0.00105	0.00067	"			-				*
Naphthalene	0.00128	0.00067	"			-				*
Surrogate: 2-Fluorobiphenyl	65.7		"	0.333		65.7	33-115			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L633032 - 3550B

LRB (LRB-L633032)

Prepared: 08/19/2022 Analyzed: 08/19/2022

Surrogate: 4-Terphenyl-d14	77.4		mg/Kg	0.333	77.4		33-122			
Surrogate: Nitrobenzene-d5	51		"	0.333	51		29-110			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L633111 - 3550B

MSD (L 87421-MSD-L633111)		Source: 87421			Prepared: 08/19/2022 Analyzed: 08/20/2022					
1-Methylnaphthalene	0.0865	0.000364	mg/Kg	0.167	87421	51.7	30-130	6.3	30	
2-Methylnaphthalene	0.0862	0.000645	"	0.167	87421	51.6	30-130	5.8	30	
Naphthalene	0.0825	0.000484	"	0.167	87421	49.4	30-130	5.6	30	
Surrogate: Nitrobenzene-d5	40.8		"	0.333	157	40.8	29-110			
Surrogate: 2-Fluorobiphenyl	50.4		"	0.333	193	50.4	33-115			
Surrogate: 4-Terphenyl-d14	64.8		"	0.333	214	64.8	33-122			

MS (L 87421-MS-L633111)		Source: 87421			Prepared: 08/19/2022 Analyzed: 08/20/2022					
1-Methylnaphthalene	0.0812	0.000364	mg/Kg	0.162	87421	50.1	30-130			
2-Methylnaphthalene	0.0813	0.000645	"	0.162	87421	50.1	30-130			
Naphthalene	0.078	0.000484	"	0.162	87421	48.1	30-130			
Surrogate: 2-Fluorobiphenyl	52.3		"	0.325	193	52.3	33-115			
Surrogate: 4-Terphenyl-d14	61.5		"	0.325	214	61.5	33-122			
Surrogate: Nitrobenzene-d5	43.3		"	0.325	157	43.3	29-110			

LCS (LCS-L633111)		Prepared: 08/19/2022 Analyzed: 08/20/2022								
Naphthalene	0.0981	0.000484	mg/Kg	0.167		58.7	30-130			
2-Methylnaphthalene	0.101	0.000645	"	0.167		60.4	30-130			
1-Methylnaphthalene	0.103	0.000364	"	0.167		61.6	30-130			
Surrogate: 4-Terphenyl-d14	73.5		"	0.333		73.5	33-122			
Surrogate: 2-Fluorobiphenyl	69		"	0.333		69	33-115			
Surrogate: Nitrobenzene-d5	54.9		"	0.333		54.9	29-110			

LRB (LRB-L633111)		Prepared: 08/19/2022 Analyzed: 08/20/2022								
2-Methylnaphthalene	ND	0.00067	mg/Kg			-				
1-Methylnaphthalene	ND	0.00067	"			-				
Naphthalene	ND	0.00067	"			-				
Surrogate: Nitrobenzene-d5	54		"	0.333		54	29-110			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L633111 - 3550B

LRB (LRB-L633111)

Prepared: 08/19/2022 Analyzed: 08/20/2022

Surrogate: 4-Terphenyl-d14	73.8		mg/Kg	0.333	73.8		33-122			
Surrogate: 2-Fluorobiphenyl	69.9		"	0.333	69.9		33-115			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417066

Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

Notes and Definitions

U Sample is Non-Detect.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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September 02, 2022

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - Hunter, Hunter 9&16-32
OSA Facility**

Project Number - 09A1417066

Attached are your analytical results for KMG - Hunter, Hunter 9&16-32 OSA Facility received by Origins Laboratory, Inc. August 26, 2022. This project is associated with Origins project number Y208674-01.

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: 09A1417066

Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP01-Outlet E08@7'	Y208674-01	Soil	August 26, 2022 15:00	08/26/2022 17:21
SEP01-Outlet E09@7'	Y208674-02	Soil	August 26, 2022 15:05	08/26/2022 17:21
SEP01-Outlet N06@7'	Y208674-03	Soil	August 26, 2022 15:10	08/26/2022 17:21
SEP01-Outlet N07@7'	Y208674-04	Soil	August 26, 2022 15:15	08/26/2022 17:21
SEP01-Outlet W09@7'	Y208674-05	Soil	August 26, 2022 15:20	08/26/2022 17:21
SEP01-Outlet B16@10'	Y208674-06	Soil	August 26, 2022 15:25	08/26/2022 17:21
SEP01-Outlet B17@10'	Y208674-07	Soil	August 26, 2022 15:30	08/26/2022 17:21
SEP01-Outlet B18@10'	Y208674-08	Soil	August 26, 2022 15:35	08/26/2022 17:21
SEP01-Outlet B19@10'	Y208674-09	Soil	August 26, 2022 15:40	08/26/2022 17:21

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417066

Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y208674

Client: Ensolum

Client Project ID: Hunter, Hunter 9&16-32 OSA Fac.

Checklist Completed by: MS

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

Date/time completed: 8/26/22

Airbill #: NA

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

Cooler Number/Temperature: 1, 7.1 °C _____ °C _____ °C _____ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>same day</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)

Date/Time Reviewed 8/26/22

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01-Outlet E08@7'
8/26/2022 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208674-01 (Soil)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2H2630	08/26/2022	08/27/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.7 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00265	0.000364	0.00067	mg/Kg	1	L635050	08/31/2022	08/31/2022	
2-Methylnaphthalene	0.00422	0.000645	0.00067	"	"	"	"	"	
Naphthalene	0.00227	0.000484	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	56.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	65.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	58.8 %		29-110			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01-Outlet E09@7'

8/26/2022 3:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208674-02 (Soil)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0348		0.00200	mg/kg	1	B2H2630	08/26/2022	08/27/2022	
1,3,5-Trimethylbenzene	0.0113		0.00200	"	"	"	"	"	
Benzene	0.00436		0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	115 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.016	0.000364	0.00067	mg/Kg	1	L635050	08/31/2022	08/31/2022	
2-Methylnaphthalene	0.0247	0.000645	0.00067	"	"	"	"	"	
Naphthalene	0.00448	0.000484	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	44.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	55.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	45.5 %		29-110			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01-Outlet N06@7'

8/26/2022 3:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208674-03 (Soil)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H2630	08/26/2022	08/27/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130	"	"	"
Surrogate: Toluene-d8	98.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.5 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L635050	08/31/2022	08/31/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	51.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	54.7 %	29-110	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01-Outlet N07@7'

8/26/2022 3:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208674-04 (Soil)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H2630	08/26/2022	08/27/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130	"	"	"
Surrogate: Toluene-d8	97.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.0 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L635050	08/31/2022	08/31/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	56.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	60.5 %	29-110	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01-Outlet W09@7'

8/26/2022 3:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208674-05 (Soil)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00242		0.00200	mg/kg	1	B2H2630	08/26/2022	08/27/2022	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.1 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.9 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L635050	08/31/2022	08/31/2022	
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"	
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	61.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	81.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	63.5 %		29-110			"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01-Outlet B16@10'

8/26/2022 3:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208674-06 (Soil)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H2630	08/26/2022	08/27/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130	"	"	"
Surrogate: Toluene-d8	96.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.2 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L635050	08/31/2022	08/31/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	52.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	63.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	58.6 %	29-110	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01-Outlet B17@10'
8/26/2022 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208674-07 (Soil)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H2630	08/26/2022	08/27/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130	"	"	"
Surrogate: Toluene-d8	99.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.9 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L635050	08/31/2022	08/31/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	57.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	60.1 %	29-110	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01-Outlet B18@10'
8/26/2022 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208674-08 (Soil)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H2630	08/26/2022	08/27/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130	"	"	"
Surrogate: Toluene-d8	98.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.8 %	70-130	"	"	"

PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L635166	08/31/2022	08/31/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	56.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	65.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	57.3 %	29-110	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01-Outlet B19@10'
8/26/2022 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208674-09 (Soil)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H2631	08/26/2022	08/26/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	69.5 %	70-130	"	"	"	S-GC
Surrogate: Toluene-d8	91.2 %	70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	85.1 %	70-130	"	"	"	

PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L635166	08/31/2022	08/31/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	57.1 %	33-115	"	"	"	
Surrogate: 4-Terphenyl-d14	67.8 %	33-122	"	"	"	
Surrogate: Nitrobenzene-d5	58.1 %	29-110	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA 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 B2H2630 - EPA 5030 (soil)										
Blank (B2H2630-BLK1)					Prepared: 08/26/2022 Analyzed: 08/26/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.6	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H2630 - EPA 5030 (soil)

LCS (B2H2630-BS1)

Prepared: 08/26/2022 Analyzed: 08/26/2022

1,2,4-Trimethylbenzene	0.0969	0.00200	mg/kg	0.100		96.9	70-130			
1,3,5-Trimethylbenzene	0.0970	0.00200	"	0.100		97.0	70-130			
Benzene	0.0932	0.00200	"	0.100		93.2	70-130			
Ethylbenzene	0.0964	0.00200	"	0.100		96.4	70-130			
m,p-Xylene	0.215	0.00400	"	0.200		107	70-130			
Naphthalene	0.101	0.0100	"	0.100		101	70-130			
o-Xylene	0.0955	0.00200	"	0.100		95.5	70-130			
Toluene	0.0949	0.00200	"	0.100		94.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.4	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H2630 - EPA 5030 (soil)

Matrix Spike (B2H2630-MS1)		Source: Y208666-01			Prepared: 08/26/2022 Analyzed: 08/26/2022					
1,2,4-Trimethylbenzene	0.0791	0.00200	mg/kg	0.100	ND	79.1	70-130			
1,3,5-Trimethylbenzene	0.0797	0.00200	"	0.100	ND	79.7	70-130			
Benzene	0.0821	0.00200	"	0.100	ND	82.1	70-130			
Ethylbenzene	0.0801	0.00200	"	0.100	ND	80.1	70-130			
m,p-Xylene	0.176	0.00400	"	0.200	ND	88.2	70-130			
Naphthalene	0.0990	0.0100	"	0.100	ND	99.0	70-130			
o-Xylene	0.0798	0.00200	"	0.100	ND	79.8	70-130			
Toluene	0.0829	0.00200	"	0.100	ND	82.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.3	70-130			

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA 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 B2H2630 - EPA 5030 (soil)										
Matrix Spike Dup (B2H2630-MSD1)		Source: Y208666-01			Prepared: 08/26/2022 Analyzed: 08/26/2022					
1,2,4-Trimethylbenzene	0.0840	0.00200	mg/kg	0.100	ND	84.0	70-130	5.98	20	
1,3,5-Trimethylbenzene	0.0846	0.00200	"	0.100	ND	84.6	70-130	5.99	20	
Benzene	0.0863	0.00200	"	0.100	ND	86.3	70-130	4.96	20	
Ethylbenzene	0.0863	0.00200	"	0.100	ND	86.3	70-130	7.43	20	
m,p-Xylene	0.190	0.00400	"	0.200	ND	94.9	70-130	7.32	20	
Naphthalene	0.101	0.0100	"	0.100	ND	101	70-130	2.28	20	
o-Xylene	0.0840	0.00200	"	0.100	ND	84.0	70-130	5.08	20	
Toluene	0.0839	0.00200	"	0.100	ND	83.9	70-130	1.25	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.8	70-130			

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H2631 - EPA 5030 (soil)

Blank (B2H2631-BLK1)

Prepared: 08/26/2022 Analyzed: 08/26/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.088		"	0.125		70.2	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		84.3	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H2631 - EPA 5030 (soil)

LCS (B2H2631-BS1)

Prepared: 08/26/2022 Analyzed: 08/26/2022

1,2,4-Trimethylbenzene	0.0938	0.00200	mg/kg	0.100		93.8	70-130			
1,3,5-Trimethylbenzene	0.0945	0.00200	"	0.100		94.5	70-130			
Benzene	0.116	0.00200	"	0.100		116	70-130			
Ethylbenzene	0.0955	0.00200	"	0.100		95.5	70-130			
m,p-Xylene	0.178	0.00400	"	0.200		89.2	70-130			
Naphthalene	0.107	0.0100	"	0.100		107	70-130			
o-Xylene	0.0944	0.00200	"	0.100		94.4	70-130			
Toluene	0.110	0.00200	"	0.100		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.080		"	0.125		63.9	70-130			S-GC
Surrogate: Toluene-d8	0.12		"	0.125		93.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.1	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H2631 - EPA 5030 (soil)

Matrix Spike (B2H2631-MS1)		Source: Y208652-01			Prepared: 08/26/2022 Analyzed: 08/26/2022					
1,2,4-Trimethylbenzene	0.0806	0.00200	mg/kg	0.100	ND	80.6	70-130			
1,3,5-Trimethylbenzene	0.0812	0.00200	"	0.100	ND	81.2	70-130			
Benzene	0.103	0.00200	"	0.100	ND	103	70-130			
Ethylbenzene	0.0808	0.00200	"	0.100	ND	80.8	70-130			
m,p-Xylene	0.152	0.00400	"	0.200	ND	75.8	70-130			
Naphthalene	0.107	0.0100	"	0.100	0.000720	106	70-130			
o-Xylene	0.0824	0.00200	"	0.100	ND	82.4	70-130			
Toluene	0.0955	0.00200	"	0.100	ND	95.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.088		"	0.125		70.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		85.5	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H2631 - EPA 5030 (soil)

Matrix Spike Dup (B2H2631-MSD1)		Source: Y208652-01			Prepared: 08/26/2022 Analyzed: 08/26/2022					
1,2,4-Trimethylbenzene	0.0850	0.00200	mg/kg	0.100	ND	85.0	70-130	5.27	20	
1,3,5-Trimethylbenzene	0.0858	0.00200	"	0.100	ND	85.8	70-130	5.51	20	
Benzene	0.110	0.00200	"	0.100	ND	110	70-130	7.12	20	
Ethylbenzene	0.0867	0.00200	"	0.100	ND	86.7	70-130	7.04	20	
m,p-Xylene	0.162	0.00400	"	0.200	ND	81.1	70-130	6.83	20	
Naphthalene	0.112	0.0100	"	0.100	0.000720	111	70-130	4.36	20	
o-Xylene	0.0872	0.00200	"	0.100	ND	87.2	70-130	5.59	20	
Toluene	0.101	0.00200	"	0.100	ND	101	70-130	5.16	20	
Surrogate: 1,2-Dichloroethane-d4	0.091		"	0.125		72.8	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.9	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L635050 - 3550B

MSD (L 82970-MSD-L635050)		Source: 82970			Prepared: 08/31/2022 Analyzed: 08/31/2022					
2-Methylnaphthalene	0.072	0.000645	mg/Kg	0.164	<0.000645	43.9	30-130	32.5	30	*
1-Methylnaphthalene	0.0721	0.000364	"	0.164	<0.000364	43.9	30-130	33.3	30	*
Naphthalene	0.0689	0.000484	"	0.164	<0.000484	42	30-130	33.2	30	*
Surrogate: 4-Terphenyl-d14	56.7		"	0.328	241	56.7	33-122			*
Surrogate: Nitrobenzene-d5	45.1		"	0.328	214	45.1	29-110			*
Surrogate: 2-Fluorobiphenyl	44.5		"	0.328	201	44.5	33-115			*
MS (L 82970-MS-L635050)		Source: 82970			Prepared: 08/31/2022 Analyzed: 08/31/2022					
1-Methylnaphthalene	0.101	0.000364	mg/Kg	0.163	<0.000364	61.9	30-130			
2-Methylnaphthalene	0.1	0.000645	"	0.163	<0.000645	61.3	30-130			
Naphthalene	0.0964	0.000484	"	0.163	<0.000484	59.1	30-130			
Surrogate: 2-Fluorobiphenyl	60.4		"	0.326	201	60.4	33-115			
Surrogate: 4-Terphenyl-d14	72.6		"	0.326	241	72.6	33-122			
Surrogate: Nitrobenzene-d5	59.5		"	0.326	214	59.5	29-110			
LCS (LCS-L635050)					Prepared: 08/31/2022 Analyzed: 08/31/2022					
1-Methylnaphthalene	0.109	0.000364	mg/Kg	0.167		65.2	30-130			
2-Methylnaphthalene	0.109	0.000645	"	0.167		65.2	30-130			
Naphthalene	0.106	0.000484	"	0.167		63.4	30-130			
Surrogate: 2-Fluorobiphenyl	71.1		"	0.333		71.1	33-115			
Surrogate: 4-Terphenyl-d14	87		"	0.333		87	33-122			
Surrogate: Nitrobenzene-d5	69.3		"	0.333		69.3	29-110			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L635050 - 3550B

LRB (LRB-L635050)

Prepared: 08/31/2022 Analyzed: 08/31/2022

1-Methylnaphthalene	ND	0.00067	mg/Kg				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	65.1		"	0.333	65.1		33-115			
Surrogate: Nitrobenzene-d5	66		"	0.333	66		29-110			
Surrogate: 4-Terphenyl-d14	75.3		"	0.333	75.3		33-122			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L635166 - 3550B

MSD (L 83006-MSD-L635166)		Source: 83006			Prepared: 08/31/2022 Analyzed: 08/31/2022					
1-Methylnaphthalene	0.1	0.00182	mg/Kg	0.164	<0.00182	60.9	30-130	1.9	30	
2-Methylnaphthalene	0.0995	0.00323	"	0.164	<0.00323	60.6	30-130	2.4	30	
Naphthalene	0.0865	0.00242	"	0.164	<0.00242	52.7	30-130	6.7	30	
Surrogate: 2-Fluorobiphenyl	58.8		"	0.328	195	58.8	33-115			
Surrogate: Nitrobenzene-d5	50.3		"	0.328	194	50.3	29-110			
Surrogate: 4-Terphenyl-d14	71.6		"	0.328	200	71.6	33-122			

MS (L 83006-MS-L635166)		Source: 83006			Prepared: 08/31/2022 Analyzed: 08/31/2022					
1-Methylnaphthalene	0.102	0.00182	mg/Kg	0.164	<0.00182	62.1	30-130			
Naphthalene	0.0925	0.00242	"	0.164	<0.00242	56.4	30-130			
2-Methylnaphthalene	0.102	0.00323	"	0.164	<0.00323	62.1	30-130			
Surrogate: Nitrobenzene-d5	53.9		"	0.328	194	53.9	29-110			
Surrogate: 4-Terphenyl-d14	62.8		"	0.328	200	62.8	33-122			
Surrogate: 2-Fluorobiphenyl	57.3		"	0.328	195	57.3	33-115			

LCS (LCS-L635166)		Prepared: 08/31/2022 Analyzed: 08/31/2022								
1-Methylnaphthalene	0.101	0.000364	mg/Kg	0.167		60.4	30-130			
Naphthalene	0.0983	0.000484	"	0.167		58.8	30-130			
2-Methylnaphthalene	0.101	0.000645	"	0.167		60.4	30-130			
Surrogate: 2-Fluorobiphenyl	66.3		"	0.333		66.3	33-115			
Surrogate: 4-Terphenyl-d14	80.4		"	0.333		80.4	33-122			
Surrogate: Nitrobenzene-d5	68.1		"	0.333		68.1	29-110			

LRB (LRB-L635166)		Prepared: 08/31/2022 Analyzed: 08/31/2022								
1-Methylnaphthalene	ND	0.00067	mg/Kg			-				
2-Methylnaphthalene	ND	0.00067	"			-				
Naphthalene	ND	0.00067	"			-				
Surrogate: 2-Fluorobiphenyl	60.9		"	0.333		60.9	33-115			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417066
Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L635166 - 3550B

LRB (LRB-L635166)

Prepared: 08/31/2022 Analyzed: 08/31/2022

Surrogate: 4-Terphenyl-d14	72.3		mg/Kg	0.333	72.3	33-122
Surrogate: Nitrobenzene-d5	64.2		"	0.333	64.2	29-110

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417066

Project: KMG - Hunter, Hunter 9&16-32 OSA
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.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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September 12, 2022

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - Hunter, Hunter 9&16-32
OSA Facility****Project Number - [none]**

Attached are your analytical results for KMG - Hunter, Hunter 9&16-32 OSA Facility received by Origins Laboratory, Inc. September 01, 2022. This project is associated with Origins project number Y209022-01.

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: [none]

Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP01-Outlet B20@10'	Y209022-01	Soil	September 1, 2022 14:10	09/01/2022 17:25
SEP01-Outlet E10@7'	Y209022-02	Soil	September 1, 2022 14:15	09/01/2022 17:25
SEP01-Outlet S09@7'	Y209022-03	Soil	September 1, 2022 14:20	09/01/2022 17:25
SEP01-Outlet N08@7'	Y209022-04	Soil	September 1, 2022 14:25	09/01/2022 17:25

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: [none]

Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: Y209022

Client: Ensolum

Client Project ID: Hunter, Hunter 9&16-32 OSA Facility

Checklist Completed by: ME

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

Date/time completed: 9/11/22

Airbill #: MA

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

Cooler Number/Temperature: 1, 32.3 °C °C °C (Describe) °C

Thermometer ID: T2009

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

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

Reviewed by (Project Manager)

9/11/22
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: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

SEP01-Outlet B20@10'

9/1/2022 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y209022-01 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2I0117	09/01/2022	09/01/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	121 %		70-130			"	"	"	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.7 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L636493	09/09/2022	09/09/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	57.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	69.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	59.9 %		29-110			"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01-Outlet E10@7'

9/1/2022 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y209022-02 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B210117	09/01/2022	09/01/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	122 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L636493	09/09/2022	09/09/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	54.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	67.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	57.9 %	29-110	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01-Outlet S09@7'

9/1/2022 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y209022-03 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	2.22		0.0500	mg/kg	25	B2I0117	09/01/2022	09/02/2022	
1,3,5-Trimethylbenzene	0.207		0.00200	"	1	"	"	09/01/2022	
Benzene	0.00264		0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	124 %		70-130			"	"	"	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	110 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.23	0.00182	0.00335	mg/Kg	5	L636493	09/09/2022	09/09/2022	
2-Methylnaphthalene	0.435	0.00323	0.00335	"	"	"	"	"	
Naphthalene	0.108	0.00242	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	55.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	64.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	51.8 %		29-110			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

SEP01-Outlet N08@7'

9/1/2022 2:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y209022-04 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B210117	09/01/2022	09/01/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	121 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L636493	09/09/2022	09/09/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	55.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	72.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	56.6 %	29-110	"	"	"

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA
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 B2I0117 - EPA 5030 (soil)										
Blank (B2I0117-BLK1)					Prepared: 09/01/2022 Analyzed: 09/01/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125	122		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	101		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: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2I0117 - EPA 5030 (soil)

LCS (B2I0117-BS1)

Prepared: 09/01/2022 Analyzed: 09/01/2022

1,2,4-Trimethylbenzene	0.0984	0.00200	mg/kg	0.100		98.4	70-130			
1,3,5-Trimethylbenzene	0.0994	0.00200	"	0.100		99.4	70-130			
Benzene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.0986	0.00200	"	0.100		98.6	70-130			
Naphthalene	0.0897	0.00380	"	0.100		89.7	70-130			
Toluene	0.112	0.00200	"	0.100		112	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.198	0.00400	"	0.200		99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		121	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2I0117 - EPA 5030 (soil)

Matrix Spike (B2I0117-MS1)		Source: Y209015-01			Prepared: 09/01/2022 Analyzed: 09/02/2022					
1,2,4-Trimethylbenzene	0.0733	0.00200	mg/kg	0.100	0.000680	72.6	70-130			
1,3,5-Trimethylbenzene	0.0737	0.00200	"	0.100	0.000520	73.2	70-130			
Benzene	0.0956	0.00200	"	0.100	ND	95.6	70-130			
Ethylbenzene	0.0795	0.00200	"	0.100	ND	79.5	70-130			
Naphthalene	0.0777	0.00380	"	0.100	0.00252	75.1	70-130			
Toluene	0.0959	0.00200	"	0.100	ND	95.9	70-130			
o-Xylene	0.0841	0.00200	"	0.100	0.000480	83.6	70-130			
m,p-Xylene	0.155	0.00400	"	0.200	0.00132	76.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			S-GC
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.2	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA
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 B2I0117 - EPA 5030 (soil)										
Matrix Spike Dup (B2I0117-MSD1)		Source: Y209015-01		Prepared: 09/01/2022 Analyzed: 09/01/2022						
1,2,4-Trimethylbenzene	0.0901	0.00200	mg/kg	0.100	0.000680	89.4	70-130	20.6	20	QR-02
1,3,5-Trimethylbenzene	0.0914	0.00200	"	0.100	0.000520	90.9	70-130	21.5	20	QR-02
Benzene	0.0963	0.00200	"	0.100	ND	96.3	70-130	0.667	20	
Ethylbenzene	0.0896	0.00200	"	0.100	ND	89.6	70-130	11.9	20	
Naphthalene	0.0864	0.00380	"	0.100	0.00252	83.9	70-130	10.7	20	
Toluene	0.102	0.00200	"	0.100	ND	102	70-130	6.05	20	
o-Xylene	0.0950	0.00200	"	0.100	0.000480	94.5	70-130	12.1	20	
m,p-Xylene	0.180	0.00400	"	0.200	0.00132	89.3	70-130	15.1	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		119	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L636493 - 3550B

MSD (L 81607-MSD-L636493)		Source: 81607			Prepared: 09/09/2022 Analyzed: 09/09/2022					
2-Methylnaphthalene	0.0989	0.00335	mg/Kg	0.166	<0.00323	59.5	30-130	7.8	30	
Naphthalene	0.0969	0.00335	"	0.166	<0.00242	58.3	30-130	8.9	30	
1-Methylnaphthalene	0.0987	0.00335	"	0.166	<0.00182	59.4	30-130	8	30	
Surrogate: 2-Fluorobiphenyl	58.1		"	0.332	131	58.1	33-115			
Surrogate: 4-Terphenyl-d14	69.2		"	0.332	163	69.2	33-122			
Surrogate: Nitrobenzene-d5	54.5		"	0.332	126	54.5	29-110			
MS (L 81607-MS-L636493)		Source: 81607			Prepared: 09/09/2022 Analyzed: 09/09/2022					
1-Methylnaphthalene	0.107	0.00335	mg/Kg	0.165	<0.00182	64.8	30-130			
Naphthalene	0.106	0.00335	"	0.165	<0.00242	64.2	30-130			
2-Methylnaphthalene	0.107	0.00335	"	0.165	<0.00323	64.8	30-130			
Surrogate: Nitrobenzene-d5	63		"	0.33	126	63	29-110			
Surrogate: 4-Terphenyl-d14	76.6		"	0.33	163	76.6	33-122			
Surrogate: 2-Fluorobiphenyl	65.4		"	0.33	131	65.4	33-115			
LCS (LCS-L636493)		Prepared: 09/09/2022 Analyzed: 09/09/2022								
1-Methylnaphthalene	0.111	0.00067	mg/Kg	0.167		66.4	30-130			
2-Methylnaphthalene	0.112	0.00067	"	0.167		67	30-130			
Naphthalene	0.109	0.00067	"	0.167		65.2	30-130			
Surrogate: 2-Fluorobiphenyl	71.4		"	0.333		71.4	33-115			
Surrogate: 4-Terphenyl-d14	83.4		"	0.333		83.4	33-122			
Surrogate: Nitrobenzene-d5	70.2		"	0.333		70.2	29-110			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L636493 - 3550B

LRB (LRB-L636493)

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

1-Methylnaphthalene	ND	0.00067	mg/Kg				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	63.3		"	0.333	63.3		29-110			
Surrogate: 2-Fluorobiphenyl	60.6		"	0.333	60.6		33-115			
Surrogate: 4-Terphenyl-d14	69.6		"	0.333	69.6		33-122			

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: [none]

Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

Notes and Definitions

U Sample is Non-Detect.

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

QR-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.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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

September 12, 2022

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - Hunter, Hunter 9&16-32
OSA Facility**

Project Number - [none]

Attached are your analytical results for KMG - Hunter, Hunter 9&16-32 OSA Facility received by Origins Laboratory, Inc. September 06, 2022. This project is associated with Origins project number Y209085-01.

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: [none]

Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sep01-Outlet-E11@6'	Y209085-01	Soil	September 6, 2022 13:25	09/06/2022 17:10
Sep01-Outlet-B21@7'	Y209085-02	Soil	September 6, 2022 13:35	09/06/2022 17:10

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: [none]

Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1209075

Client: Ensolum

Client Project ID: Hunter, Hunter

Checklist Completed by: TSH

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

Date/time completed: 9/16/12

Airbill #: N/A

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

Cooler Number/Temperature: 113.0 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<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 9/16/12

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: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Sep01-Outlet-E11@6'

9/6/2022 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y209085-01 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B210634	09/06/2022	09/06/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130	"	"	"
Surrogate: Toluene-d8	96.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.8 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L636493	09/09/2022	09/09/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	56.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	67.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	59.3 %	29-110	"	"	"

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Sep01-Outlet-B21@7'

9/6/2022 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209085-02 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B210634	09/06/2022	09/06/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130	"	"	"
Surrogate: Toluene-d8	93.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.2 %	70-130	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L636493	09/09/2022	09/09/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	58.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	72.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	61.1 %	29-110	"	"	"

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA
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 B2I0634 - EPA 5030 (soil)										
Blank (B2I0634-BLK1)					Prepared: 09/06/2022 Analyzed: 09/06/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	90.3		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	95.2		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	93.7		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: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2I0634 - EPA 5030 (soil)

LCS (B2I0634-BS1)

Prepared: 09/06/2022 Analyzed: 09/06/2022

1,2,4-Trimethylbenzene	0.0890	0.00200	mg/kg	0.100		89.0	70-130			
1,3,5-Trimethylbenzene	0.0892	0.00200	"	0.100		89.2	70-130			
Benzene	0.0982	0.00200	"	0.100		98.2	70-130			
Ethylbenzene	0.0911	0.00200	"	0.100		91.1	70-130			
Naphthalene	0.0824	0.00380	"	0.100		82.4	70-130			
Toluene	0.0917	0.00200	"	0.100		91.7	70-130			
o-Xylene	0.0891	0.00200	"	0.100		89.1	70-130			
m,p-Xylene	0.184	0.00400	"	0.200		91.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.1	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2I0634 - EPA 5030 (soil)

Matrix Spike (B2I0634-MS1)		Source: Y209085-01			Prepared: 09/06/2022 Analyzed: 09/06/2022					
1,2,4-Trimethylbenzene	0.0884	0.00200	mg/kg	0.100	ND	88.4	70-130			
1,3,5-Trimethylbenzene	0.0893	0.00200	"	0.100	ND	89.3	70-130			
Benzene	0.0944	0.00200	"	0.100	ND	94.4	70-130			
Ethylbenzene	0.0897	0.00200	"	0.100	ND	89.7	70-130			
Naphthalene	0.0896	0.00380	"	0.100	0.00100	88.6	70-130			
Toluene	0.0869	0.00200	"	0.100	ND	86.9	70-130			
o-Xylene	0.0894	0.00200	"	0.100	ND	89.4	70-130			
m,p-Xylene	0.180	0.00400	"	0.200	ND	90.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.1	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA 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 B2I0634 - EPA 5030 (soil)										
Matrix Spike Dup (B2I0634-MSD1)		Source: Y209085-01			Prepared: 09/06/2022 Analyzed: 09/06/2022					
1,2,4-Trimethylbenzene	0.0890	0.00200	mg/kg	0.100	ND	89.0	70-130	0.654	20	
1,3,5-Trimethylbenzene	0.0890	0.00200	"	0.100	ND	89.0	70-130	0.314	20	
Benzene	0.0990	0.00200	"	0.100	ND	99.0	70-130	4.80	20	
Ethylbenzene	0.0939	0.00200	"	0.100	ND	93.9	70-130	4.55	20	
Naphthalene	0.0923	0.00380	"	0.100	0.00100	91.3	70-130	2.99	20	
Toluene	0.0898	0.00200	"	0.100	ND	89.8	70-130	3.21	20	
o-Xylene	0.0934	0.00200	"	0.100	ND	93.4	70-130	4.46	20	
m,p-Xylene	0.189	0.00400	"	0.200	ND	94.7	70-130	4.86	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.9	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L636493 - 3550B

MSD (L 81607-MSD-L636493)		Source: 81607			Prepared: 09/09/2022 Analyzed: 09/09/2022					
2-Methylnaphthalene	0.0989	0.00335	mg/Kg	0.166	<0.00323	59.5	30-130	7.8	30	
Naphthalene	0.0969	0.00335	"	0.166	<0.00242	58.3	30-130	8.9	30	
1-Methylnaphthalene	0.0987	0.00335	"	0.166	<0.00182	59.4	30-130	8	30	
Surrogate: 2-Fluorobiphenyl	58.1		"	0.332	131	58.1	33-115			
Surrogate: 4-Terphenyl-d14	69.2		"	0.332	163	69.2	33-122			
Surrogate: Nitrobenzene-d5	54.5		"	0.332	126	54.5	29-110			
MS (L 81607-MS-L636493)		Source: 81607			Prepared: 09/09/2022 Analyzed: 09/09/2022					
1-Methylnaphthalene	0.107	0.00335	mg/Kg	0.165	<0.00182	64.8	30-130			
Naphthalene	0.106	0.00335	"	0.165	<0.00242	64.2	30-130			
2-Methylnaphthalene	0.107	0.00335	"	0.165	<0.00323	64.8	30-130			
Surrogate: Nitrobenzene-d5	63		"	0.33	126	63	29-110			
Surrogate: 4-Terphenyl-d14	76.6		"	0.33	163	76.6	33-122			
Surrogate: 2-Fluorobiphenyl	65.4		"	0.33	131	65.4	33-115			
LCS (LCS-L636493)					Prepared: 09/09/2022 Analyzed: 09/09/2022					
1-Methylnaphthalene	0.111	0.00067	mg/Kg	0.167		66.4	30-130			
2-Methylnaphthalene	0.112	0.00067	"	0.167		67	30-130			
Naphthalene	0.109	0.00067	"	0.167		65.2	30-130			
Surrogate: 2-Fluorobiphenyl	71.4		"	0.333		71.4	33-115			
Surrogate: 4-Terphenyl-d14	83.4		"	0.333		83.4	33-122			
Surrogate: Nitrobenzene-d5	70.2		"	0.333		70.2	29-110			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L636493 - 3550B

LRB (LRB-L636493)

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

1-Methylnaphthalene	ND	0.00067	mg/Kg				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	63.3		"	0.333	63.3		29-110			
Surrogate: 2-Fluorobiphenyl	60.6		"	0.333	60.6		33-115			
Surrogate: 4-Terphenyl-d14	69.6		"	0.333	69.6		33-122			

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: [none]

Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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

September 20, 2022

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - Hunter, Hunter 9&16-32
OSA Facility****Project Number - [none]**

Attached are your analytical results for KMG - Hunter, Hunter 9&16-32 OSA Facility received by Origins Laboratory, Inc. September 16, 2022. This project is associated with Origins project number Y209355-01.

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: [none]

Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG-GW01	Y209355-01	Water	September 16, 2022 11:10	09/16/2022 14:20
BG-GW02	Y209355-02	Water	September 16, 2022 11:20	09/16/2022 14:20

Origins Laboratory, Inc.



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accordance with the chain of custody document. This
analytical report must be reproduced in its entirety.*

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: [none]

Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4209355

Client: Ensolum

Client Project ID: Hunter + Hunter

Checklist Completed by: JSF

Shipped Via: HP

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

Date/time completed: 9/16/12

Airbill #: N/A

Matrix(s) Received: (Check all that apply):

Soil/Solid

☒ Water

Other:

(Describe)

Cooler Number/Temperature: 1 3.8 °C 1 °C 1 °C 1 °C

Thermometer ID: 10004

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 Na ₂ CO ₃ +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) JSF

Date/Time Reviewed 9/16/12

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: [none]

Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

BG-GW01

9/16/2022 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y209355-01 (Water)

Origins Laboratory, Inc.

Total Dissolved Solids by 2540C

Total Dissolved Solids	1570	5.00	mg/L	1	B2I1610	TSH	09/16/2022	09/20/2022
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GEL Laboratories, LLC

Anions by EPA 300.0

Chloride	65.2	20.0	mg/L	100	2318399	JLD1	09/16/2022	09/19/2022
Sulfate	734	40.0	"	"	"	JLD1	"	"

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: [none]

Project: KMG - Hunter, Hunter 9&16-32 OSA Facility

BG-GW02

9/16/2022 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y209355-02 (Water)

Origins Laboratory, Inc.

Total Dissolved Solids by 2540C

Total Dissolved Solids	1690	5.00	mg/L	1	B2I1610	TSH	09/16/2022	09/20/2022
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GEL Laboratories, LLC

Anions by EPA 300.0

Chloride	83.1	20.0	mg/L	100	2318399	JLD1	09/16/2022	09/19/2022
Sulfate	801	40.0	"	"	"	JLD1	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA
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 B2I1610 - NO PREP										
Blank (B2I1610-BLK1)					Prepared: 09/16/2022 Analyzed: 09/20/2022					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B2I1610-BS1)					Prepared: 09/16/2022 Analyzed: 09/20/2022					
Total Dissolved Solids	968	5.00	mg/L	994		97.4	90-110			
Duplicate (B2I1610-DUP1)					Source: Y209249-17 Prepared: 09/16/2022 Analyzed: 09/20/2022					
Total Dissolved Solids	1100	5.00	mg/L		1060			3.72	10	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

Anions by EPA 300.0 - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2318399 -										
BLANK (1205195147-BLK)					Prepared: Analyzed: 09/19/2022					
Sulfate	ND	0.400	mg/L				-			U
Chloride	ND	0.200	"				-			U
LCS (1205195148-BKS)					Prepared: Analyzed: 09/19/2022					
Sulfate	10.0	0.400	mg/L	10.0		100	90-110			
Chloride	4.90	0.200	"	5.00		98	90-110			
DUP (1205195151 D)					Source: Y209355-02		Prepared: Analyzed: 09/19/2022			
Sulfate	802	40.0	mg/L		801		0-20	0.12	20	
Chloride	81.6	20.0	"		83.1		0-20	1.82	20	
PS (1205195152 S)					Source: Y209355-02		Prepared: Analyzed: 09/19/2022			
Sulfate	1840	40.0	mg/L	10.0		104	90-110			
Chloride	566	20.0	"	5.00		96.6	90-110			

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: [none]

Project: KMG - Hunter, Hunter 9&16-32 OSA
Facility

Notes and Definitions

U Result not detected above the detection limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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