

TABLE 1
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
SCHMID 2-34 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	B01@6'	E01@3'	Pot Hole 01@6'	BG01@6'	B02@9'
		4/20/2021	4/20/2021	4/20/2021	4/22/2021	5/24/2021
Photoionization Detector Reading						
PID (ppm)	NA	0.4	52.8	1.9	0.0	1.2
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	<0.200	3.37	0.557	NA	NA
TPH-DRO* (mg/kg)	500	<25.0	148	137	NA	NA
TPH-RRO* (mg/kg)	500	<100	268	326	NA	NA
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	1.11	1.93	2.35	1.02	NA
Sodium Adsorption Ratio (SAR)	6	NA	NA	NA	NA	NA
Sodium Adsorption Ratio (units)	6	3.31	3.19	7.62	4.37	NA
pH, Lab (pH units)	6-8.3	7.95	7.83	7.75	7.58	NA
Boron (mg/L)	2	0.3	1.1	0.9	0.4	NA
Soil Suitability for Reclamation (GPV for Soil)						
Benzene (mg/kg)	0.0026	<0.00200	<0.00200	<0.00200	NA	NA
Toluene (mg/kg)	0.69	<0.00200	<0.00200	<0.00200	NA	NA
Ethylbenzene (mg/kg)	0.78	<0.00200	<0.00200	<0.00200	NA	NA
Xylenes, Total (mg/kg)	9.9	<0.00200	<0.00200	<0.00200	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	<0.00200	0.00230	<0.00200	NA	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	<0.00200	<0.00200	<0.00200	NA	NA
Acenaphthene (mg/Kg)	0.55	<0.00067	0.0345	0.00268	NA	NA
Anthracene (mg/Kg)	5.8	<0.00067	0.0505	0.00708	NA	NA
Benzo (a) anthracene (mg/Kg)	0.011	<0.00067	<0.00335	0.000939	NA	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	<0.00067	0.00413	0.00231	NA	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	<0.00067	0.00246	0.000663	NA	NA
Benzo (a) pyrene (mg/Kg)	0.24	<0.00067	0.0051	0.00214	NA	NA
Chrysene (mg/Kg)	9	<0.00067	0.0099	0.00455	NA	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	<0.00067	<0.00335	<0.00067	NA	NA
Fluoranthene (mg/Kg)	8.9	<0.00067	0.0117	0.00255	NA	NA
Fluorene (mg/Kg)	0.54	<0.00067	0.0896	0.0104	NA	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	<0.00067	0.00193	0.00119	NA	NA
1-Methylnaphthalene (mg/Kg)	0.006	0.000491	0.386	0.0277	NA	<0.00067
2-Methylnaphthalene (mg/Kg)	0.019	0.000693	0.441	0.0295	NA	<0.00067
Naphthalene (mg/Kg)	0.0038	<0.00067	0.028	0.00786	NA	<0.00067
Pyrene (mg/Kg)	1.3	<0.00067	0.0529	0.0094	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	0.605	2.75	1.3	0.463	1.92
Barium (mg/Kg)	82	43	77.5	52.3	38.6	NA
Cadmium (mg/Kg)	0.38	0.0528	0.311	0.175	<0.25	NA
Chromium, Hexavalent (mg/Kg)	0.00067	<1	<1	<1	<0.5	NA
Copper (mg/Kg)	46	3.01	42.9	7.01	2.52	NA
Lead (mg/Kg)	14	4.18	217	9.59	3.2	7.34
Nickel (mg/Kg)	26	3.14	7.31	4.69	2.88	NA
Selenium (mg/Kg)	0.26	<0.25	0.307	0.171	0.157	0.213
Silver (mg/Kg)	0.8	0.0219	0.0883	0.0566	0.0158	NA
Zinc (mg/Kg)	370	14.8	76	29.7	12.5	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
SCHMID 2-34 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	BG02@9'	E02@6.5'	N02@6.5'	Pothole01-B01@7'	Pothole01-E01@6'
		5/24/2021	5/24/2021	5/24/2021	5/24/2021	5/24/2021
Photoionization Detector Reading						
PID (ppm)	NA	NA	2.3	0.1	1.3	0.1
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	NA	NA	NA	NA	NA
TPH-DRO* (mg/kg)	500	NA	NA	NA	NA	NA
TPH-RRO* (mg/kg)	500	NA	NA	NA	NA	NA
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	1.82	NA	NA	NA	NA
Sodium Adsorption Ratio (SAR)	6	3.86	NA	NA	5.07	6.73
Sodium Adsorption Ratio (units)	6	NA	NA	NA	NA	NA
pH, Lab (pH units)	6-8.3	7.83	NA	NA	NA	NA
Boron (mg/L)	2	0.4	NA	NA	NA	NA
Soil Suitability for Reclamation (GPV for Soil)						
Benzene (mg/kg)	0.0026	NA	NA	NA	NA	NA
Toluene (mg/kg)	0.69	NA	NA	NA	NA	NA
Ethylbenzene (mg/kg)	0.78	NA	NA	NA	NA	NA
Xylenes, Total (mg/kg)	9.9	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	NA	NA	NA	NA
Acenaphthene (mg/Kg)	0.55	NA	NA	NA	NA	NA
Anthracene (mg/Kg)	5.8	NA	NA	NA	NA	NA
Benzo (a) anthracene (mg/Kg)	0.011	NA	NA	NA	NA	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	NA	NA	NA	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	NA	NA	NA	NA
Benzo (a) pyrene (mg/Kg)	0.24	NA	NA	NA	NA	NA
Chrysene (mg/Kg)	9	NA	NA	NA	NA	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	NA	NA	NA	NA
Fluoranthene (mg/Kg)	8.9	NA	NA	NA	NA	NA
Fluorene (mg/Kg)	0.54	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	NA	NA	NA	NA
1-Methylnaphthalene (mg/Kg)	0.006	NA	<0.00067	<0.00067	<0.00067	<0.00067
2-Methylnaphthalene (mg/Kg)	0.019	NA	<0.00067	<0.00067	<0.00067	<0.00067
Naphthalene (mg/Kg)	0.0038	NA	<0.00067	<0.00067	<0.00067	<0.00067
Pyrene (mg/Kg)	1.3	NA	NA	NA	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	0.949	0.993	0.624	0.707	1.1
Barium (mg/Kg)	82	36.3	NA	NA	NA	NA
Cadmium (mg/Kg)	0.38	0.0674	NA	NA	NA	NA
Chromium, Hexavalent (mg/Kg)	0.00067	<0.5	NA	NA	NA	NA
Copper (mg/Kg)	46	4.48	NA	NA	NA	NA
Lead (mg/Kg)	14	5.14	3.54	3.07	NA	NA
Nickel (mg/Kg)	26	3.74	NA	NA	NA	NA
Selenium (mg/Kg)	0.26	0.171	0.177	0.142	NA	NA
Silver (mg/Kg)	0.8	0.0298	NA	NA	NA	NA
Zinc (mg/Kg)	370	18.5	NA	NA	NA	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
SCHMID 2-34 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	Pothole01-N01@6'	Pothole01-S01@6'	Pothole01-W01@6'	S02@6.5'	W02@6.5'
		5/24/2021	5/24/2021	5/24/2021	5/24/2021	5/24/2021
Photoionization Detector Reading						
PID (ppm)	NA	0.1	0.0	0.1	0.3	0.0
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	NA	NA	NA	NA	NA
TPH-DRO* (mg/kg)	500	NA	NA	NA	NA	NA
TPH-RRO* (mg/kg)	500	NA	NA	NA	NA	NA
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	NA	NA	NA	NA	NA
Sodium Adsorption Ratio (SAR)	6	7.25	5.99	6.29	NA	NA
Sodium Adsorption Ratio (units)	6	NA	NA	NA	NA	NA
pH, Lab (pH units)	6-8.3	NA	NA	NA	NA	NA
Boron (mg/L)	2	NA	NA	NA	NA	NA
Soil Suitability for Reclamation (GPV for Soil)						
Benzene (mg/kg)	0.0026	NA	NA	NA	NA	NA
Toluene (mg/kg)	0.69	NA	NA	NA	NA	NA
Ethylbenzene (mg/kg)	0.78	NA	NA	NA	NA	NA
Xylenes, Total (mg/kg)	9.9	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	NA	NA	NA	NA
Acenaphthene (mg/Kg)	0.55	NA	NA	NA	NA	NA
Anthracene (mg/Kg)	5.8	NA	NA	NA	NA	NA
Benzo (a) anthracene (mg/Kg)	0.011	NA	NA	NA	NA	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	NA	NA	NA	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	NA	NA	NA	NA
Benzo (a) pyrene (mg/Kg)	0.24	NA	NA	NA	NA	NA
Chrysene (mg/Kg)	9	NA	NA	NA	NA	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	NA	NA	NA	NA
Fluoranthene (mg/Kg)	8.9	NA	NA	NA	NA	NA
Fluorene (mg/Kg)	0.54	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	NA	NA	NA	NA
1-Methylnaphthalene (mg/Kg)	0.006	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
2-Methylnaphthalene (mg/Kg)	0.019	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Naphthalene (mg/Kg)	0.0038	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Pyrene (mg/Kg)	1.3	NA	NA	NA	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	0.923	1.26	0.926	0.862	0.465
Barium (mg/Kg)	82	NA	NA	NA	NA	NA
Cadmium (mg/Kg)	0.38	NA	NA	NA	NA	NA
Chromium, Hexavalent (mg/Kg)	0.00067	NA	NA	NA	NA	NA
Copper (mg/Kg)	46	NA	NA	NA	NA	NA
Lead (mg/Kg)	14	NA	NA	NA	3.39	2.98
Nickel (mg/Kg)	26	NA	NA	NA	NA	NA
Selenium (mg/Kg)	0.26	NA	NA	NA	0.139	<0.25
Silver (mg/Kg)	0.8	NA	NA	NA	NA	NA
Zinc (mg/Kg)	370	NA	NA	NA	NA	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
SCHMID 2-34 WELLHEAD
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Analyte	Groundwater Protection Values (GPV)	B03@12'	E03@12'	Native-BG03@12'	Pothole-E02@5'	Pothole-N02@5'
		6/11/2021	6/11/2021	6/11/2021	6/11/2021	6/11/2021
Photoionization Detector Reading						
PID (ppm)	NA	10.0	8.9	NA	1.2	6.7
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	NA	NA	NA	NA	NA
TPH-DRO* (mg/kg)	500	NA	NA	NA	NA	NA
TPH-RRO* (mg/kg)	500	NA	NA	NA	NA	NA
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	NA	NA	1.32	NA	NA
Sodium Adsorption Ratio (SAR)	6	NA	NA	4.63	4.43	5.71
Sodium Adsorption Ratio (units)	6	NA	NA	NA	NA	NA
pH, Lab (pH units)	6-8.3	NA	NA	7.92	NA	NA
Boron (mg/L)	2	NA	NA	0.182	NA	NA
Soil Suitability for Reclamation (GPV for Soil)						
Benzene (mg/kg)	0.0026	NA	NA	NA	NA	NA
Toluene (mg/kg)	0.69	NA	NA	NA	NA	NA
Ethylbenzene (mg/kg)	0.78	NA	NA	NA	NA	NA
Xylenes, Total (mg/kg)	9.9	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	NA	NA	NA	NA
Acenaphthene (mg/Kg)	0.55	NA	NA	NA	NA	NA
Anthracene (mg/Kg)	5.8	NA	NA	NA	NA	NA
Benzo (a) anthracene (mg/Kg)	0.011	NA	NA	NA	NA	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	NA	NA	NA	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	NA	NA	NA	NA
Benzo (a) pyrene (mg/Kg)	0.24	NA	NA	NA	NA	NA
Chrysene (mg/Kg)	9	NA	NA	NA	NA	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	NA	NA	NA	NA
Fluoranthene (mg/Kg)	8.9	NA	NA	NA	NA	NA
Fluorene (mg/Kg)	0.54	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	NA	NA	NA	NA
1-Methylnaphthalene (mg/Kg)	0.006	NA	NA	NA	NA	NA
2-Methylnaphthalene (mg/Kg)	0.019	NA	NA	NA	NA	NA
Naphthalene (mg/Kg)	0.0038	NA	NA	NA	NA	NA
Pyrene (mg/Kg)	1.3	NA	NA	NA	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	1.16	0.188	0.838	NA	NA
Barium (mg/Kg)	82	NA	NA	35.7	NA	NA
Cadmium (mg/Kg)	0.38	NA	NA	0.0496	NA	NA
Chromium, Hexavalent (mg/Kg)	0.00067	NA	NA	<0.5	NA	NA
Copper (mg/Kg)	46	NA	NA	3.77	NA	NA
Lead (mg/Kg)	14	NA	NA	4.1	NA	NA
Nickel (mg/Kg)	26	NA	NA	4.19	NA	NA
Selenium (mg/Kg)	0.26	NA	NA	<0.25	NA	NA
Silver (mg/Kg)	0.8	NA	NA	0.0139	NA	NA
Zinc (mg/Kg)	370	NA	NA	16.9	NA	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
SCHMID 2-34 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	Pothole-S02@5'	Pothole-W02@5'	B04@15'	Pothole-W03@5'
		6/11/2021	6/11/2021	7/2/2021	7/2/2021
Photoionization Detector Reading					
PID (ppm)	NA	1.2	106.7	0.2	2.5
Total Petroleum Hydrocarbons by USEPA Method 8015D					
TPH-GRO* (mg/kg)	500	NA	44.7	NA	NA
TPH-DRO* (mg/kg)	500	NA	306	NA	NA
TPH-RRO* (mg/kg)	500	NA	140	NA	NA
Soil Suitability for Reclamation					
EC (mmhos/cm)	4	NA	3.27	NA	NA
Sodium Adsorption Ratio (SAR)	6	NA	8.61	NA	8.48
Sodium Adsorption Ratio (units)	6	NA	NA	NA	NA
pH, Lab (pH units)	6-8.3	NA	7.79	NA	NA
Boron (mg/L)	2	NA	0.642	NA	NA
Soil Suitability for Reclamation (GPV for Soil)					
Benzene (mg/kg)	0.0026	NA	<0.00200	NA	NA
Toluene (mg/kg)	0.69	NA	<0.00200	NA	NA
Ethylbenzene (mg/kg)	0.78	NA	<0.00200	NA	NA
Xylenes, Total (mg/kg)	9.9	NA	<0.00200	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	<0.00200	NA	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	<0.00200	NA	NA
Acenaphthene (mg/Kg)	0.55	NA	0.0257	NA	NA
Anthracene (mg/Kg)	5.8	NA	0.0177	NA	NA
Benzo (a) anthracene (mg/Kg)	0.011	NA	0.00304	NA	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	0.00277	NA	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	<0.00335	NA	NA
Benzo (a) pyrene (mg/Kg)	0.24	NA	0.00481	NA	NA
Chrysene (mg/Kg)	9	NA	0.0052	NA	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	<0.00335	NA	NA
Fluoranthene (mg/Kg)	8.9	NA	0.00736	NA	NA
Fluorene (mg/Kg)	0.54	NA	0.0679	NA	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	0.003	NA	NA
1-Methylnaphthalene (mg/Kg)	0.006	NA	0.0468	NA	<0.00067
2-Methylnaphthalene (mg/Kg)	0.019	NA	0.00469	NA	NA
Naphthalene (mg/Kg)	0.0038	NA	0.00243	NA	NA
Pyrene (mg/Kg)	1.3	NA	0.0342	NA	NA
Metals in Soils (GPV for Soil)					
Arsenic (mg/Kg)	0.29	0.611	1.18	1.35	1.17
Barium (mg/Kg)	82	NA	41	NA	NA
Cadmium (mg/Kg)	0.38	NA	0.185	NA	NA
Chromium, Hexavalent (mg/Kg)	0.00067	NA	<2.5	NA	NA
Copper (mg/Kg)	46	NA	7.12	NA	NA
Lead (mg/Kg)	14	NA	10	NA	NA
Nickel (mg/Kg)	26	NA	3.64	NA	NA
Selenium (mg/Kg)	0.26	NA	<0.25	NA	NA
Silver (mg/Kg)	0.8	NA	0.0824	NA	NA
Zinc (mg/Kg)	370	NA	30.7	NA	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
SCHMID 2-34 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Notes:

GPV - groundwater protection values
mg/kg - milligrams per kilogram
PID - Photoionization Detector
ppm - parts per million
TPH - total petroleum hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
RRO - residual range organics

EC - electrical conductivity
SAR - sodium adsorption ratio
mmhos/cm - millimhos per centimeter
<0.00200 - less than laboratory reporting limit
NA - Not Applicable / Not Analyzed
Bold indicates exceeds allowable level
*Allowable level for TPH is 500 mg/kg for combined GRO,
DRO, and RRO

TABLE 2
PHOTOIONIZATION DETECTOR FIELD RESULTS
SCHMID 2-34 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Screening Location	Location	Date	PID Reading (ppm)
B01@6'	Wellhead Excavation	4/20/2021	0.4
North Wall	Wellhead Excavation	4/20/2021	1.3
E01@3'	Wellhead Excavation	4/20/2021	52.8
South Wall	Wellhead Excavation	4/20/2021	1.1
West Wall	Wellhead Excavation	4/20/2021	2.0
B02@9'	Wellhead Excavation	5/24/2021	1.2
N02@6.5'	Wellhead Excavation	5/24/2021	0.1
S02@6.5'	Wellhead Excavation	5/24/2021	0.3
W02@6.5'	Wellhead Excavation	5/24/2021	0.0
E02@6.5'	Wellhead Excavation	5/24/2021	2.3
B03@12'	Wellhead Excavation	6/11/2021	10.1
E03@6.5'	Wellhead Excavation	6/11/2021	8.9
B04@15'	Wellhead Excavation	7/2/2021	0.2
Pothole 1	Flowline Riser	4/20/2021	1.9
Pothole01@6'	Flowline Pothole	4/20/2021	17.3
Pothole01-N01@6'	Flowline Pothole	5/24/2021	0.1
Pothole01-S01@6'	Flowline Pothole	5/24/2021	0.0
Pothole01-W01@6'	Flowline Pothole	5/24/2021	0.1
Pothole01-E01@6'	Flowline Pothole	5/24/2021	0.2
Pothole01-Base01@7'	Flowline Pothole	5/24/2021	1.3
Pothole-N02@5'	Flowline Pothole	6/11/2021	6.7
Pothole-E02@5'	Flowline Pothole	6/11/2021	1.2
Pothole-S02@5'	Flowline Pothole	6/11/2021	1.2
Pothole-W02@5'	Flowline Pothole	6/11/2021	106.7
Pothole-W03@5'	Flowline Pothole	7/2/2021	2.5
BG01@6'	Background	4/22/2021	0.0
Native-BG03@12'	Background	6/11/2021	NA

Notes:

PID - Photoionization Detector

ppm - parts per million

NA - Not analyzed with PID; Sampled for inorganic parameters only.



**TABLE 3
GROUNDWATER ANALYTICAL RESULTS
SCHMID 2-34 WELLHEAD
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	2,875,000	250,000	467,500	
GW01	4/22/2021	<1.00	<1.00	<1.00	<1.00	<4.00	<1.00	<1.00	2,220,000	441,000	568,000	9
Pothole01-GW01	5/24/2021	<4.00	<4.00	<4.00	<4.00	<16.0	<4.00	<4.00	2,300,000	237,000	374,000	9

Notes: COGCC - Colorado Oil and Gas Conservation Commission

µg/L - micrograms per liter

ft bgs - feet below ground surface

< - less than laboratory reporting limit

NA - not analyzed/not available

Excavation groundwater depth is approximate

Inorganic parameters based on background sample (Pothole01-GW01) concentration x 1.25



April 27, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada CO 80003

Project Name - KMG - Schmid 2-34

Project Number - 31403177.000 Task 06.0

Attached are your analytical results for KMG - Schmid 2-34 received by Origins Laboratory, Inc. April 20, 2021. This project is associated with Origins project number Y104329-01.

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: 31403177.000 Task 06.05
Project: KMG - Schmid 2-34

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@6'	Y104329-01	Soil	April 20, 2021 14:30	04/20/2021 17:47
E01@3'	Y104329-02	Soil	April 20, 2021 14:37	04/20/2021 17:47
Pot Hole 01@6'	Y104329-03	Soil	April 20, 2021 16:45	04/20/2021 17:47

Origins Laboratory, Inc.



The results in 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: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

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

Sample Receipt Checklist

Origins Work Order: Y104329 Client: WSP
 Client Project ID: Schmid 2-34

Checklist Completed by: JG Shipped Via: HD
 Date/time completed: 4/20/21 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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

Cooler Number/Temperature: 1, 6.9 °C 1 °C 1 °C (Describe) °C

Thermometer ID: T003

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 4/20/21

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.

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

Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

B01@6'
4/20/2021 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y104329-01 (Soil)

Boron (Sorbitol)

Boron	0.3			mg/L	1	[none]	04/22/2021	04/26/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1D2006	04/20/2021	04/20/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	90.9 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1D2005	04/20/2021	04/20/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			"	"	"	
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Origins Laboratory, Inc.


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

Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

B01@6'
4/20/2021 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y104329-01 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	92.6 %		70-130			B1D20 05	04/20/2021	04/20/2021	
Surrogate: 4-Bromofluorobenzene	96.1 %		70-130			"	"	"	

Metals (Saturated Paste Prep)

Calcium	4.97			me/L	1	[none]	04/22/2021	04/26/2021	
Magnesium	2.11			"	"	"	"	"	
Sodium	6.22			"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.000491	0.00048	0.00067	mg/Kg	1	L549079	04/23/2021	04/23/2021	J
2-Methylnaphthalene	0.000693	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	ND	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

B01@6'

4/20/2021 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y104329-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L549079	04/23/2021	04/23/2021	
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	53.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	56.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	58.7 %		29-110			"	"	"	

pH in Soil by EPA 9045D

pH	7.95			pH Units	1	B1D2106	04/21/2021	04/21/2021	
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SAR by 20B Saturated Paste

SAR	3.31				1	[none]	04/22/2021	04/26/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.11		0.00500	mmhos/cm	1	B1D2107	04/21/2021	04/21/2021	
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Total Metals by 6020B

Arsenic	0.605	0.0433	0.25	mg/Kg	5	L548871	04/22/2021	04/23/2021	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

B01@6'

4/20/2021 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y104329-01 (Soil)

Total Metals by 6020B

Barium	43	0.041	0.25	mg/Kg	5	L548871	04/22/2021	04/23/2021	
Cadmium	0.0528	0.0391	0.25	"	"	"	"	"	J
Copper	3.01	0.118	0.25	"	"	"	"	"	
Lead	4.18	0.0115	0.25	"	"	"	"	"	
Nickel	3.14	0.0743	0.25	"	"	"	"	"	
Selenium	ND	0.102	0.25	"	"	"	"	"	
Silver	0.0219	0.0025	0.25	"	"	"	"	"	JB
Zinc	14.8	0.438	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L549182	04/20/2021	04/26/2021	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

E01@3'
4/20/2021 2:37:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y104329-02 (Soil)

Boron (Sorbitol)

Boron	1.1			mg/L	1	[none]	04/22/2021	04/26/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	148		25.0	mg/kg	1	B1D2006	04/20/2021	04/20/2021	
Residual Range Organics (C28-C40)	268		100	"	"	"	"	"	

Surrogate: o-Terphenyl	90.1 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	0.00230		0.00200	mg/kg	1	B1D2005	04/20/2021	04/20/2021	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	3.37		0.200	"	"	"	"	"	
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			"	"	"	
Surrogate: Toluene-d8	92.3 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

E01@3'
 4/20/2021 2:37:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y104329-02 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene 101 % 70-130 B1D20 05 04/20/2021 04/20/2021

Metals (Saturated Paste Prep)

Calcium	9.89			me/L	1	[none]	04/22/2021	04/26/2021	
Magnesium	7.36			"	"	"	"	"	
Sodium	9.36			"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.386	0.0024	0.00335	mg/Kg	5	L549079	04/23/2021	04/23/2021	
2-Methylnaphthalene	0.441	0.00271	0.00335	"	"	"	"	"	
Acenaphthene	0.0345	0.00216	0.00335	"	"	"	"	"	
Anthracene	0.0505	0.00213	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00221	0.00335	"	"	"	"	"	
Benzo(a)pyrene	0.0051	0.000665	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	0.00413	0.00069	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	0.00246	0.00243	0.00335	"	"	"	"	"	J
Chrysene	0.0099	0.00128	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.0014	0.00335	"	"	"	"	"	
Fluoranthene	0.0117	0.00265	0.00335	"	"	"	"	"	
Fluorene	0.0896	0.00251	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	0.00193	0.00172	0.00335	"	"	"	"	"	J

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

E01@3'
4/20/2021 2:37:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y104329-02 (Soil)

PAH by 8270D SIM

Naphthalene	0.028	0.00234	0.00335	mg/Kg	5	L549079	04/23/2021	04/23/2021	
Pyrene	0.0529	0.00194	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	59 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	77.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	63 %		29-110			"	"	"	

pH in Soil by EPA 9045D

pH	7.83			pH Units	1	B1D2106	04/21/2021	04/21/2021	
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SAR by 20B Saturated Paste

SAR	3.19				1	[none]	04/22/2021	04/26/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.93		0.00500	mmhos/cm	1	B1D2107	04/21/2021	04/21/2021	
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Total Metals by 6020B

Arsenic	2.75	0.0433	0.25	mg/Kg	5	L548871	04/22/2021	04/23/2021	
Barium	77.5	0.041	0.25	"	"	"	"	"	
Cadmium	0.311	0.0391	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

E01@3'

4/20/2021 2:37:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
 Y104329-02 (Soil)

Total Metals by 6020B

Copper	42.9	0.472	1	mg/Kg	20	L548871	04/22/2021	04/23/2021	
Lead	217	0.0115	0.25	"	5	"	"	"	
Nickel	7.31	0.0743	0.25	"	"	"	"	"	
Selenium	0.307	0.102	0.25	"	"	"	"	"	
Silver	0.0883	0.0025	0.25	"	"	"	"	"	J
Zinc	76	0.438	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L549182	04/20/2021	04/26/2021	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

Pot Hole 01@6'
4/20/2021 4:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y104329-03 (Soil)

Boron (Sorbitol)

Boron	0.9			mg/L	1	[none]	04/22/2021	04/26/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	137		25.0	mg/kg	1	B1D2006	04/20/2021	04/21/2021	
Residual Range Organics (C28-C40)	326		100	"	"	"	"	"	

Surrogate: o-Terphenyl	104 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1D2005	04/20/2021	04/21/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.557		0.200	"	"	"	"	"	
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130			"	"	"	
Surrogate: Toluene-d8	92.4 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

Pot Hole 01@6'
4/20/2021 4:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y104329-03 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene	98.9 %		70-130			B1D20 05	04/20/2021	04/21/2021	
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Metals (Saturated Paste Prep)

Calcium	8.24			me/L	1	[none]	04/22/2021	04/26/2021	
Magnesium	4.03			"	"	"	"	"	
Sodium	18.87			"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0277	0.00048	0.00067	mg/Kg	1	L549079	04/23/2021	04/23/2021	
2-Methylnaphthalene	0.0295	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	0.00268	0.000431	0.00067	"	"	"	"	"	
Anthracene	0.00708	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.000939	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00214	0.000133	0.00067	"	"	"	"	"	B
Benzo(b)fluoranthene	0.00231	0.000138	0.00067	"	"	"	"	"	B
Benzo(k)fluoranthene	0.000663	0.000486	0.00067	"	"	"	"	"	J
Chrysene	0.00455	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	0.00255	0.000529	0.00067	"	"	"	"	"	
Fluorene	0.0104	0.000501	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	0.00119	0.000344	0.00067	"	"	"	"	"	
Naphthalene	0.00786	0.000467	0.00067	"	"	"	"	"	

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

Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

Pot Hole 01@6'
4/20/2021 4:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y104329-03 (Soil)

PAH by 8270D SIM

Pyrene	0.0094	0.000387	0.00067	mg/Kg	1	L549079	04/23/2021	04/23/2021	
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Surrogate: 2-Fluorobiphenyl	50.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	67.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	60.6 %		29-110			"	"	"	

pH in Soil by EPA 9045D

pH	7.75			pH Units	1	B1D2210	04/22/2021	04/22/2021	
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SAR by 20B Saturated Paste

SAR	7.62				1	[none]	04/22/2021	04/26/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	2.35		0.00500	mmhos/cm	1	B1D2211	04/22/2021	04/22/2021	
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Total Metals by 6020B

Arsenic	1.3	0.0433	0.25	mg/Kg	5	L548871	04/22/2021	04/23/2021	
Barium	52.3	0.041	0.25	"	"	"	"	"	
Cadmium	0.175	0.0391	0.25	"	"	"	"	"	J
Copper	7.01	0.118	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

Pot Hole 01@6'
4/20/2021 4:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y104329-03 (Soil)

Total Metals by 6020B

Lead	9.59	0.0115	0.25	mg/Kg	5	L548871	04/22/2021	04/23/2021	
Nickel	4.69	0.0743	0.25	"	"	"	"	"	
Selenium	0.171	0.102	0.25	"	"	"	"	"	J
Silver	0.0566	0.0025	0.25	"	"	"	"	"	J
Zinc	29.7	0.438	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L549182	04/20/2021	04/26/2021	
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WSP USA
 4600 W. 60th Ave.
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Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

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 B1D2005 - EPA 5030 (soil)

Blank (B1D2005-BLK1)

Prepared: 04/20/2021 Analyzed: 04/20/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	92.9		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	96.1		70-130			

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Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

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 B1D2005 - EPA 5030 (soil)

LCS (B1D2005-BS1)

Prepared: 04/20/2021 Analyzed: 04/20/2021

1,2,4-Trimethylbenzene	0.0481	0.00200	mg/kg	0.0500		96.1	70-130			
Naphthalene	0.0512	0.0100	"	0.0500		102	70-130			
1,3,5-Trimethylbenzene	0.0486	0.00200	"	0.0500		97.2	70-130			
Benzene	0.0564	0.00200	"	0.0500		113	70-130			
Ethylbenzene	0.0475	0.00200	"	0.0500		95.0	70-130			
m,p-Xylene	0.0954	0.00400	"	0.100		95.4	70-130			
o-Xylene	0.0486	0.00200	"	0.0500		97.2	70-130			
Toluene	0.0484	0.00200	"	0.0500		96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.2	70-130			

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Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

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 B1D2005 - EPA 5030 (soil)

Matrix Spike (B1D2005-MS1)	Source: Y104320-01			Prepared: 04/20/2021 Analyzed: 04/20/2021						
1,2,4-Trimethylbenzene	0.0484	0.00200	mg/kg	0.0500		96.8	70-130			
Naphthalene	0.0527	0.0100	"	0.0500		105	70-130			
1,3,5-Trimethylbenzene	0.0482	0.00200	"	0.0500		96.3	70-130			
Benzene	0.0545	0.00200	"	0.0500		109	70-130			
Ethylbenzene	0.0459	0.00200	"	0.0500		91.9	70-130			
m,p-Xylene	0.0929	0.00400	"	0.100		92.9	70-130			
o-Xylene	0.0472	0.00200	"	0.0500		94.4	70-130			
Toluene	0.0477	0.00200	"	0.0500		95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.3	70-130			

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Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

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 B1D2005 - EPA 5030 (soil)

Matrix Spike Dup (B1D2005-MSD1)	Source: Y104320-01			Prepared: 04/20/2021 Analyzed: 04/20/2021						
1,2,4-Trimethylbenzene	0.0480	0.00200	mg/kg	0.0500		96.0	70-130	0.913	20	
Naphthalene	0.0538	0.0100	"	0.0500		108	70-130	2.10	20	
1,3,5-Trimethylbenzene	0.0475	0.00200	"	0.0500		95.0	70-130	1.38	20	
Benzene	0.0539	0.00200	"	0.0500		108	70-130	1.14	20	
Ethylbenzene	0.0460	0.00200	"	0.0500		92.0	70-130	0.0870	20	
m,p-Xylene	0.0928	0.00400	"	0.100		92.8	70-130	0.129	20	
o-Xylene	0.0471	0.00200	"	0.0500		94.2	70-130	0.254	20	
Toluene	0.0470	0.00200	"	0.0500		94.0	70-130	1.56	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

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 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

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 B1D2006 - EPA 3550B										
Blank (B1D2006-BLK1)										
					Prepared: 04/20/2021 Analyzed: 04/20/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	25.0		74.7	50-150			

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Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

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 B1D2006 - EPA 3550B

LCS (B1D2006-BS1)

Prepared: 04/20/2021 Analyzed: 04/20/2021

Diesel (C10-C28)	805	50.0	mg/kg	1000		80.5	70-130			
Residual Range Organics (C28-C40)	829	200	"	1000		82.9	70-130			
Surrogate: o-Terphenyl	40		"	50.0		80.1	50-150			

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Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

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 B1D2006 - EPA 3550B

Matrix Spike (B1D2006-MS1)	Source: Y104320-01			Prepared: 04/20/2021 Analyzed: 04/20/2021						
Diesel (C10-C28)	800	50.0	mg/kg	1000	ND	80.0	70-130			
Residual Range Organics (C28-C40)	835	200	"	1000	ND	83.5	70-130			
Surrogate: o-Terphenyl	39		"	50.0		77.6	50-150			

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Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

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 B1D2006 - EPA 3550B

Matrix Spike Dup (B1D2006-MSD1)	Source: Y104320-01			Prepared: 04/20/2021 Analyzed: 04/20/2021						
Diesel (C10-C28)	812	50.0	mg/kg	1000	ND	81.2	70-130	1.46	35	
Residual Range Organics (C28-C40)	832	200	"	1000	ND	83.2	70-130	0.354	35	
Surrogate: o-Terphenyl	40		"	50.0		80.4	50-150			

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Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

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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Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1D2106 - NO PREP

Duplicate (B1D2106-DUP1) Source: Y104305-01 Prepared: 04/21/2021 Analyzed: 04/21/2021

pH	8.08		pH Units		7.82			3.27	25	
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Batch B1D2107 - NO PREP

Blank (B1D2107-BLK1) Prepared: 04/21/2021 Analyzed: 04/21/2021

Specific Conductance (EC)	0.00290	0.00500	mmhos/cm							
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Duplicate (B1D2107-DUP1) Source: Y104305-01 Prepared: 04/21/2021 Analyzed: 04/21/2021

Specific Conductance (EC)	0.658	0.00500	mmhos/cm		0.636			3.28	25	
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Batch B1D2210 - NO PREP

Duplicate (B1D2210-DUP1) Source: Y104329-03 Prepared: 04/22/2021 Analyzed: 04/22/2021

pH	7.25		pH Units		7.75			6.67	25	
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Batch B1D2211 - NO PREP

Blank (B1D2211-BLK1) Prepared: 04/22/2021 Analyzed: 04/22/2021

Specific Conductance (EC)	0.00250	0.00500	mmhos/cm							
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Duplicate (B1D2211-DUP1) Source: Y104329-03 Prepared: 04/22/2021 Analyzed: 04/22/2021

Specific Conductance (EC)	2.16	0.00500	mmhos/cm		2.35			8.50	25	
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Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

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 L549079 - 3550B

MSD (L 89178-MSD-L549079)	Source: 89178		Prepared: 04/23/2021 Analyzed: 04/23/2021							
Dibenz(a,h)anthracene	0.101	0.000279	mg/Kg	0.166	89178	60.8	30-130	4.8	30	
Fluoranthene	0.127	0.000529	"	0.166	89178	76.5	30-130	2.3	30	
Fluorene	0.119	0.000501	"	0.166	89178	71.6	30-130	7.2	30	
Indeno(1,2,3-cd)pyrene	0.112	0.000344	"	0.166	89178	67.4	30-130	5.2	30	
2-Methylnaphthalene	0.112	0.000542	"	0.166	0.000671	67	30-130	9.3	30	
Naphthalene	0.107	0.000467	"	0.166	89178	64.4	30-130	9.7	30	
Chrysene	0.128	0.000256	"	0.166	89178	77.1	30-130	3.8	30	
Pyrene	0.135	0.000387	"	0.166	89178	81.3	30-130	1.4	30	
1-Methylnaphthalene	0.111	0.00048	"	0.166	89178	66.8	30-130	9.4	30	
Benzo(b)fluoranthene	0.137	0.000138	"	0.166	89178	82.5	30-130	0	30	
Benzo(a)pyrene	0.149	0.000133	"	0.166	89178	89.7	30-130	3.9	30	
Benzo(a)anthracene	0.139	0.000441	"	0.166	89178	83.7	30-130	2.8	30	
Anthracene	0.123	0.000426	"	0.166	89178	74	30-130	3.2	30	
Benzo(k)fluoranthene	0.117	0.000486	"	0.166	89178	70.4	30-130	2.5	30	
Acenaphthene	0.11	0.000431	"	0.166	89178	66.2	30-130	9.5	30	
Surrogate: Nitrobenzene-d5	60.8		"	0.332	215	60.8	29-110			
Surrogate: 4-Terphenyl-d14	64.4		"	0.332	210	64.4	33-122			
Surrogate: 2-Fluorobiphenyl	56.9		"	0.332	196	56.9	33-115			

MS (L 89178-MS-L549079)	Source: 89178		Prepared: 04/23/2021 Analyzed: 04/23/2021							
Anthracene	0.127	0.000426	mg/Kg	0.166	89178	76.5	30-130			
Acenaphthene	0.121	0.000431	"	0.166	89178	72.8	30-130			
2-Methylnaphthalene	0.123	0.000542	"	0.166	0.000671	73.6	30-130			
Benzo(b)fluoranthene	0.137	0.000138	"	0.166	89178	82.5	30-130			
1-Methylnaphthalene	0.122	0.00048	"	0.166	89178	73.4	30-130			
Naphthalene	0.118	0.000467	"	0.166	89178	71	30-130			
Benzo(a)anthracene	0.143	0.000441	"	0.166	89178	86.1	30-130			

Origins Laboratory, Inc.



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Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

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 L549079 - 3550B

MS (L 89178-MS-L549079)	Source: 89178			Prepared: 04/23/2021 Analyzed: 04/23/2021						
Indeno(1,2,3-cd)pyrene	0.118	0.000344	mg/Kg	0.166	89178	71	30-130			
Fluorene	0.128	0.000501	"	0.166	89178	77.1	30-130			
Fluoranthene	0.13	0.000529	"	0.166	89178	78.3	30-130			
Dibenz(a,h)anthracene	0.106	0.000279	"	0.166	89178	63.8	30-130			
Chrysene	0.133	0.000256	"	0.166	89178	80.1	30-130			
Benzo(k)fluoranthene	0.12	0.000486	"	0.166	89178	72.2	30-130			
Benzo(a)pyrene	0.155	0.000133	"	0.166	89178	93.3	30-130			
Pyrene	0.137	0.000387	"	0.166	89178	82.5	30-130			
Surrogate: 4-Terphenyl-d14	65.5		"	0.331	210	65.5	33-122			
Surrogate: 2-Fluorobiphenyl	62.5		"	0.331	196	62.5	33-115			
Surrogate: Nitrobenzene-d5	69.7		"	0.331	215	69.7	29-110			

LCS (LCS-L549079)	Prepared: 04/23/2021 Analyzed: 04/23/2021									
Indeno(1,2,3-cd)pyrene	0.111	0.000344	mg/Kg	0.167		66.4	30-130			
Benzo(b)fluoranthene	0.119	0.000138	"	0.167		71.2	30-130			
2-Methylnaphthalene	0.111	0.000542	"	0.167		66.4	30-130			
Acenaphthene	0.11	0.000431	"	0.167		65.8	30-130			
Anthracene	0.117	0.000426	"	0.167		70	30-130			
Benzo(a)anthracene	0.134	0.000441	"	0.167		80.2	30-130			
Benzo(a)pyrene	0.141	0.000133	"	0.167		84.4	30-130			
Benzo(k)fluoranthene	0.115	0.000486	"	0.167		68.8	30-130			
Chrysene	0.121	0.000256	"	0.167		72.4	30-130			
Dibenz(a,h)anthracene	0.102	0.000279	"	0.167		61	30-130			
1-Methylnaphthalene	0.11	0.00048	"	0.167		65.8	30-130			
Fluorene	0.117	0.000501	"	0.167		70	30-130			
Naphthalene	0.106	0.000467	"	0.167		63.4	30-130			
Pyrene	0.128	0.000387	"	0.167		76.6	30-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

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 L549079 - 3550B

LCS (LCS-L549079)

Prepared: 04/23/2021 Analyzed: 04/23/2021

Fluoranthene	0.122	0.000529	mg/Kg	0.167		73	30-130			
Surrogate: 2-Fluorobiphenyl	61.2		"	0.333		61.2	33-115			
Surrogate: Nitrobenzene-d5	65.4		"	0.333		65.4	29-110			
Surrogate: 4-Terphenyl-d14	66.6		"	0.333		66.6	33-122			

LRB (LRB-L549079)

Prepared: 04/23/2021 Analyzed: 04/23/2021

Benzo(a)anthracene	ND	0.00067	mg/Kg				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(a)pyrene	0.000271	0.00067	"				-			J
Benzo(b)fluoranthene	0.00032	0.00067	"				-			J
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	54.9		"	0.333		54.9	33-115			
Surrogate: 4-Terphenyl-d14	61.2		"	0.333		61.2	33-122			
Surrogate: Nitrobenzene-d5	61.5		"	0.333		61.5	29-110			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

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 L548871 - 3050B

MSD (L 89193-MSD-L548871)		Source: Y104329-03			Prepared: 04/22/2021 Analyzed: 04/23/2021					
Nickel	6.91	0.0743	mg/Kg	2.31	4.69	96	75-125	1.6	80	
Barium	56	0.041	"	4.61	52.3	80	75-125	0	80	
Cadmium	0.571	0.0391	"	0.461	0.175	124	75-125	19	80	
Copper	8.86	0.118	"	2.31	7.01	80	75-125	2.2	80	
Lead	11.6	0.0115	"	2.31	9.59	87	75-125	0.8	80	
Silver	0.474	0.0025	"	0.461	0.0566	103	75-125	3.9	80	
Zinc	51.6	0.438	"	23.1	29.7	95	75-125	0.3	80	
Arsenic	2.96	0.0433	"	2.31	1.3	72	75-125	1	80	*
Selenium	3.69	0.102	"	4.61	0.171	80	75-125	3.9	80	

MS (L 89193-MS-L548871)		Source: Y104329-03			Prepared: 04/22/2021 Analyzed: 04/23/2021					
Copper	8.66	0.118	mg/Kg	2.45	7.01	67	75-125			*
Zinc	51.8	0.438	"	24.5	29.7	90	75-125			
Selenium	3.84	0.102	"	4.9	0.171	78	75-125			
Nickel	6.8	0.0743	"	2.45	4.69	86	75-125			
Lead	11.7	0.0115	"	2.45	9.59	86	75-125			
Silver	0.493	0.0025	"	0.49	0.0566	101	75-125			
Arsenic	2.93	0.0433	"	2.45	1.3	67	75-125			*
Cadmium	0.691	0.0391	"	0.49	0.175	141	75-125			*
Barium	56	0.041	"	4.9	52.3	75	75-125			

LCS (LCS-L548871)		Prepared: 04/22/2021 Analyzed: 04/24/2021								
Arsenic	2.31	0.0433	mg/Kg	2.5		92	80-120			
Barium	4.92	0.041	"	5		98	80-120			
Cadmium	0.489	0.0391	"	0.5		98	80-120			
Copper	2.4	0.118	"	2.5		96	80-120			
Lead	2.48	0.0115	"	2.5		99	80-120			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

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 L548871 - 3050B

LCS (LCS-L548871)

Prepared: 04/22/2021 Analyzed: 04/23/2021

Nickel	2.22	0.0743	mg/Kg	2.5		89	80-120			
Selenium	4.94	0.102	"	5		99	80-120			
Zinc	24.1	0.438	"	25		96	80-120			
Silver	0.477	0.0025	"	0.5		95	80-120			

LRB (LRB-L548871)

Prepared: 04/22/2021 Analyzed: 04/23/2021

Barium	ND	0.25	mg/Kg				-			
Zinc	ND	2.5	"				-			
Arsenic	ND	0.25	"				-			
Silver	0.00429	0.25	"				-			J
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			

Origins Laboratory, Inc.



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WSP USA
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 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.000 Task 06.05
 Project: KMG - Schmid 2-34

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 L549182 -										
DUP (L 89178-DUP)		Source: 89178			Prepared: Analyzed: 04/26/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		89178		-	0	20	
MS (L 89178-MS)		Source: 89178			Prepared: Analyzed: 04/26/2021					
Chromium, Hexavalent	7.51	0.244	mg/Kg	8	89178	94	75-125			
LCS (LCS)		Prepared: Analyzed: 04/26/2021								
Chromium, Hexavalent	7.42	0.244	mg/Kg	8		93	75-125			
LRB (LRB)		Prepared: Analyzed: 04/26/2021								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.000 Task 06.05
Project: KMG - Schmid 2-34

Notes and Definitions

- U Sample is Non-Detect.
- JB [Undefined]
- J Estimated Value. Analyte below reported quantitation limit.
- B Analyte detected in associated method blank.
- * 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.

April 28, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada CO 80003

Project Name - KMG - Schmid 2-34

Project Number - 31403177.000 Task 060!

Attached are your analytical results for KMG - Schmid 2-34 received by Origins Laboratory, Inc. April 22, 2021. This project is associated with Origins project number Y104379-01.

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



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

Brian Sulzberger
Project Number: 31403177.000 Task 0605
Project: KMG - Schmid 2-34

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG01@6'	Y104379-01	Soil	April 22, 2021 11:00	04/22/2021 16:20
GW01	Y104379-02	Water	April 22, 2021 11:30	04/22/2021 16:20

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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

Sample Receipt Checklist

Origins Work Order: Y104379 Client: WSP
 Client Project ID: Schmid 2-34

Checklist Completed by: JG KDK Shipped Via: HD
 Date/time completed: 04/22/21 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1, 7.4 °C / °C / °C / °C (Describe)
 Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		Same Day
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 4/22/21

Origins Laboratory, Inc.

Jordan A. Merrill

The results in 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: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

BG01@6'

4/22/2021 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y104379-01 (Soil)

Boron (Sorbitol)

Boron	0.4			mg/L	1	[none]	04/26/2021	04/28/2021	
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Metals (Saturated Paste Prep)

Calcium	4.75			me/L	1	[none]	"	04/28/2021	
Magnesium	2.91			"	"	"	"	"	
Sodium	8.55			"	"	"	"	"	

pH in Soil by EPA 9045D

pH	7.58			pH Units	1	B1D2302	04/23/2021	04/23/2021	
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SAR by 20B Saturated Paste

SAR	4.37				1	[none]	04/26/2021	04/28/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.02		0.00500	mmhos/cm	1	B1D2303	04/23/2021	04/23/2021	
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Total Metals by 6020B

Arsenic	0.463	0.0433	0.25	mg/Kg	5	L549294	04/26/2021	04/27/2021	
Barium	38.6	0.041	0.25	"	"	"	"	"	
Cadmium	ND	0.0391	0.25	"	"	"	"	"	
Copper	2.52	0.118	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

BG01@6'

4/22/2021 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y104379-01 (Soil)

Total Metals by 6020B

Lead	3.2	0.0115	0.25	mg/Kg	5	L549294	04/26/2021	04/27/2021	
Nickel	2.88	0.0743	0.25	"	"	"	"	"	
Selenium	0.157	0.102	0.25	"	"	"	"	"	J
Silver	0.0158	0.0025	0.25	"	"	"	"	"	J
Zinc	12.5	0.438	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L549468	04/22/2021	04/27/2021	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

GW01

4/22/2021 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y104379-02 (Water)

Anions by IC 300.0

Chloride	441		62.5	mg/L	125	B1D2201	04/22/2021	04/22/2021	
Sulfate	568		62.5	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		1.00	ug/L	1	B1D2102	04/22/2021	04/22/2021	U
1,3,5-Trimethylbenzene	ND		1.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		4.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.4 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2220		5.00	mg/L	1	B1D2212	04/22/2021	04/28/2021	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 B1D2102 - EPA 5030B (Water)

Blank (B1D2102-BLK1)

Prepared: 04/21/2021 Analyzed: 04/22/2021

1,2,4-Trimethylbenzene	ND	1.00	ug/L							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	4.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5	98.1		70-130			
Surrogate: Toluene-d8	63		"	62.5	101		70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5	96.4		70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 B1D2102 - EPA 5030B (Water)

LCS (B1D2102-BS1)

Prepared: 04/21/2021 Analyzed: 04/22/2021

1,2,4-Trimethylbenzene	56.8	1.00	ug/L	50.0		114	70-130			
1,3,5-Trimethylbenzene	57.2	1.00	"	50.0		114	70-130			
Benzene	53.3	1.00	"	50.0		107	70-130			
Ethylbenzene	57.8	1.00	"	50.0		116	70-130			
m,p-Xylene	117	2.00	"	100		117	70-130			
Naphthalene	55.9	4.00	"	50.0		112	70-130			
o-Xylene	59.8	1.00	"	50.0		120	70-130			
Toluene	53.1	1.00	"	50.0		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 B1D2102 - EPA 5030B (Water)

Matrix Spike (B1D2102-MS1)	Source: Y104333-01			Prepared: 04/21/2021 Analyzed: 04/22/2021						
1,2,4-Trimethylbenzene	47.1	1.00	ug/L	50.0	0.450	93.2	70-130			
1,3,5-Trimethylbenzene	45.5	1.00	"	50.0	0.490	90.0	70-130			
Benzene	43.2	1.00	"	50.0	ND	86.4	70-130			
Ethylbenzene	46.4	1.00	"	50.0	ND	92.7	70-130			
m,p-Xylene	94.3	2.00	"	100	0.320	94.0	70-130			
Naphthalene	54.9	4.00	"	50.0	1.77	106	70-130			
o-Xylene	50.1	1.00	"	50.0	ND	100	70-130			
Toluene	43.9	1.00	"	50.0	ND	87.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		105	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.1	70-130			

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 B1D2102 - EPA 5030B (Water)

Matrix Spike Dup (B1D2102-MSD1)	Source: Y104333-01			Prepared: 04/21/2021 Analyzed: 04/22/2021						
1,2,4-Trimethylbenzene	52.5	1.00	ug/L	50.0	0.450	104	70-130	10.9	20	
1,3,5-Trimethylbenzene	50.0	1.00	"	50.0	0.490	98.9	70-130	9.39	20	
Benzene	48.8	1.00	"	50.0	ND	97.6	70-130	12.1	20	
Ethylbenzene	51.6	1.00	"	50.0	ND	103	70-130	10.6	20	
m,p-Xylene	105	2.00	"	100	0.320	105	70-130	10.6	20	
Naphthalene	67.1	4.00	"	50.0	1.77	131	70-130	19.9	20	QM-07
o-Xylene	58.3	1.00	"	50.0	ND	117	70-130	15.1	20	
Toluene	50.3	1.00	"	50.0	ND	101	70-130	13.7	20	
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	70-130			

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 B1D2201 - Filter .45um non acidified

Blank (B1D2201-BLK1)

Prepared: 04/22/2021 Analyzed: 04/22/2021

Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	"							

LCS (B1D2201-BS1)

Prepared: 04/22/2021 Analyzed: 04/22/2021

Chloride	1.99	0.500	mg/L	2.00		99.4	90-110			
Sulfate	1.98	0.500	"	2.00		98.8	90-110			

Matrix Spike (B1D2201-MS1)

Source: Y104334-23

Prepared: 04/22/2021 Analyzed: 04/22/2021

Chloride	62.4	62.5	mg/L	2.00	63.7	NR	80-120			QM-07
Sulfate	31.8	62.5	"	2.00	30.8	52.5	80-120			QM-07

Matrix Spike Dup (B1D2201-MSD1)

Source: Y104334-23

Prepared: 04/22/2021 Analyzed: 04/22/2021

Chloride	180	62.5	mg/L	2.00	63.7	NR	80-120	97.2	20	QM-07, QR-03
Sulfate	36.2	62.5	"	2.00	30.8	269	80-120	12.7	20	QM-07

Batch B1D2212 - NO PREP

Blank (B1D2212-BLK1)

Prepared: 04/22/2021 Analyzed: 04/28/2021

Total Dissolved Solids	ND	5.00	mg/L							
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LCS (B1D2212-BS1)

Prepared: 04/22/2021 Analyzed: 04/28/2021

Total Dissolved Solids	782	5.00	mg/L	716		109	85-115			
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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
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 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 B1D2212 - NO PREP

Duplicate (B1D2212-DUP1)

Source: Y104334-04

Prepared: 04/22/2021 Analyzed: 04/28/2021

Total Dissolved Solids	901	5.00	mg/L		903			0.222	20	
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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.
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Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1D2302 - NO PREP										
Duplicate (B1D2302-DUP1)		Source: Y104359-04			Prepared: 04/23/2021 Analyzed: 04/23/2021					
pH	8.63		pH Units		8.30			3.90	25	
Batch B1D2303 - NO PREP										
Blank (B1D2303-BLK1)					Prepared: 04/23/2021 Analyzed: 04/23/2021					
Specific Conductance (EC)	0.00170	0.00500	mmhos/cm							
Duplicate (B1D2303-DUP1)		Source: Y104359-04			Prepared: 04/23/2021 Analyzed: 04/23/2021					
Specific Conductance (EC)	0.420	0.00500	mmhos/cm		0.398			5.33	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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

Total Metals by 6020B - 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 L549294 - 3050B

MSD (L 91419-MSD-L549294)		Source: 91419			Prepared: 04/26/2021 Analyzed: 04/27/2021					
Barium	117	0.041	mg/Kg	4.67	88.1	619	75-125	22.8	80	*
Zinc	71.7	0.438	"	23.3	50.2	92	75-125	2.3	80	
Silver	0.504	0.0025	"	0.467	0.0594	108	75-125	3.8	80	
Selenium	3.1	0.102	"	4.67	0.298	60	75-125	10.3	80	*
Nickel	16.7	0.0743	"	2.33	15.4	56	75-125	6.9	80	*
Lead	13.6	0.0115	"	2.33	11.9	73	75-125	2.8	80	*
Cadmium	0.641	0.0391	"	0.467	0.15	137	75-125	4.4	80	*
Arsenic	3.73	0.0433	"	2.33	3.16	24	75-125	5.7	80	*
Copper	14.3	0.118	"	2.33	13.4	39	75-125	3.4	80	*

MS (L 91419-MS-L549294)		Source: 91419			Prepared: 04/26/2021 Analyzed: 04/27/2021					
Copper	14.8	0.118	mg/Kg	2.5	13.4	56	75-125			*
Selenium	3.44	0.102	"	4.99	0.298	63	75-125			*
Silver	0.524	0.0025	"	0.499	0.0594	105	75-125			
Zinc	70	0.438	"	25	50.2	79	75-125			
Lead	14	0.0115	"	2.5	11.9	84	75-125			
Barium	93	0.041	"	4.99	88.1	98	75-125			
Arsenic	3.95	0.0433	"	2.5	3.16	32	75-125			*
Nickel	17.9	0.0743	"	2.5	15.4	100	75-125			
Cadmium	0.613	0.0391	"	0.499	0.15	123	75-125			

LCS (LCS-L549294)		Prepared: 04/26/2021 Analyzed: 04/28/2021								
Nickel	2.56	0.0743	mg/Kg	2.5		102	80-120			
Zinc	22.5	0.438	"	25		90	80-120			
Selenium	4.99	0.102	"	5		100	80-120			
Lead	2.31	0.0115	"	2.5		92	80-120			
Copper	2.21	0.118	"	2.5		88	80-120			

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

Total Metals by 6020B - 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 L549294 - 3050B

LCS (LCS-L549294)

Prepared: 04/26/2021 Analyzed: 04/27/2021

Barium	4.83	0.041	mg/Kg	5		97	80-120			
Arsenic	2.32	0.0433	"	2.5		93	80-120			
Cadmium	0.475	0.0391	"	0.5		95	80-120			
Silver	0.446	0.0025	"	0.5		89	80-120			

LRB (LRB-L549294)

Prepared: 04/26/2021 Analyzed: 04/28/2021

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

Origins Laboratory, Inc.



The results in 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: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L549468 -										
DUP (L 91392-DUP)		Source: 91392			Prepared: Analyzed: 04/27/2021					
Chromium, Hexavalent	ND	0.488	mg/Kg		91392		-	0	20	
MS (L 91392-MS)		Source: 91392			Prepared: Analyzed: 04/27/2021					
Chromium, Hexavalent	6.5	0.488	mg/Kg	8	91392	81	75-125			
LCS (LCS)					Prepared: Analyzed: 04/27/2021					
Chromium, Hexavalent	6.93	0.244	mg/Kg	8		87	75-125			
LRB (LRB)					Prepared: Analyzed: 04/27/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



The results in 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: 31403177.000 Task 0605
Project: KMG - Schmid 2-34

Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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.



April 27, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO 80003

Project Name - KMG - Schmid 2-34

Project Number - 31403177.000 Task 060!

Attached are your analytical results for KMG - Schmid 2-34 received by Origins Laboratory, Inc. April 23, 2021. This project is associated with Origins project number Y104411-01.

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: 31403177.000 Task 0605
Project: KMG - Schmid 2-34

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Native-BGGW01	Y104411-01	Water	April 23, 2021 10:30	04/23/2021 16:50

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

Origins Laboratory

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

Sample Receipt Checklist
 Origins Work Order: Y104411 Client: WSP
 Client Project ID: Schmid
 Checklist Completed by: JG Kor Shipped Via: HD
 Date/time completed: 04/23/21 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: 218
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other:
 Cooler Number/Temperature: L, S, C °C / °C / °C / °C (Describe)
 Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<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 4/23/21

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.

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

Brian Sulzberger
Project Number: 31403177.000 Task 0605
Project: KMG - Schmid 2-34

Native-BGGW01
4/23/2021 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y104411-01 (Water)

Anions by IC 300.0

Chloride	211	125	mg/L	125	B1D2203	Analy	04/23/2021	04/26/2021	
Sulfate	387	62.5	"	"	"	Analy	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1490	5.00	"	1	B1D2311	DJL	04/23/2021	04/27/2021	
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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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 B1D2203 - Filter .45um non acidified										
Blank (B1D2203-BLK1)					Prepared: 04/22/2021 Analyzed: 04/26/2021					
Chloride	ND	1.00	mg/L							
Sulfate	ND	0.500	"							
LCS (B1D2203-BS1)					Prepared: 04/22/2021 Analyzed: 04/26/2021					
Chloride	1.96	1.00	mg/L	2.00		97.8	90-110			
Sulfate	1.89	0.500	"	2.00		94.4	90-110			
Matrix Spike (B1D2203-MS1)		Source: Y104353-01			Prepared: 04/22/2021 Analyzed: 04/26/2021					
Chloride	161	125	mg/L	2.00	161	23.8	80-120			QM-07
Sulfate	275	62.5	"	2.00	277	NR	80-120			QM-07
Matrix Spike Dup (B1D2203-MSD1)		Source: Y104353-01			Prepared: 04/22/2021 Analyzed: 04/26/2021					
Chloride	159	125	mg/L	2.00	161	NR	80-120	0.967	20	QM-07
Sulfate	273	62.5	"	2.00	277	NR	80-120	0.570	20	QM-07
Batch B1D2311 - NO PREP										
Blank (B1D2311-BLK1)					Prepared: 04/23/2021 Analyzed: 04/27/2021					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B1D2311-BS1)					Prepared: 04/23/2021 Analyzed: 04/27/2021					
Total Dissolved Solids	752	5.00	mg/L	716		105	85-115			
Duplicate (B1D2311-DUP1)		Source: Y104356-19			Prepared: 04/23/2021 Analyzed: 04/27/2021					
Total Dissolved Solids	1280	5.00	mg/L		1190			7.26	20	

Origins Laboratory, Inc.



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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.000 Task 0605

Project: KMG - Schmid 2-34

Notes and Definitions

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



May 28, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada CO 80003

Project Name - KMG - Schmid 2-34

Project Number - 31403177.000 Task 060!

Attached are your analytical results for KMG - Schmid 2-34 received by Origins Laboratory, Inc. May 24, 2021. This project is associated with Origins project number Y105461-01.

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: 31403177.000 Task 0605
Project: KMG - Schmid 2-34

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B02@9'	Y105461-01	Soil	May 24, 2021 14:53	05/24/2021 18:30
N02@6.5'	Y105461-02	Soil	May 24, 2021 14:56	05/24/2021 18:30
S02@6.5'	Y105461-03	Soil	May 24, 2021 14:58	05/24/2021 18:30
W02@6.5'	Y105461-04	Soil	May 24, 2021 15:02	05/24/2021 18:30
E02@6.5'	Y105461-05	Soil	May 24, 2021 15:05	05/24/2021 18:30
Pothole01-N01@6'	Y105461-06	Soil	May 24, 2021 14:31	05/24/2021 18:30
Pothole01-S01@6'	Y105461-07	Soil	May 24, 2021 14:33	05/24/2021 18:30
Pothole01-W01@6'	Y105461-08	Soil	May 24, 2021 14:35	05/24/2021 18:30
Pothole01-E01@6'	Y105461-09	Soil	May 24, 2021 14:37	05/24/2021 18:30
Pothole01-B01@7'	Y105461-10	Soil	May 24, 2021 14:40	05/24/2021 18:30
BG02@9'	Y105461-11	Soil	May 24, 2021 15:10	05/24/2021 18:30
Pothole01-GW01	Y105461-12	Water	May 24, 2021 14:22	05/24/2021 18:30

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34



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4105461

page 1 of 2

Client: WSP
 Address: 4600 W 60th Ave
 Arvada, CO 80003
 Telephone Number: 720-556-7154
 Email Address: kmg@wsp.com

Project Manager: Brian Sulzberger
 Project Name: Schmid 2-34
 Project Number: 31403177.000 Task 06.05
 Samples Collected By: David Steinbock

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis					Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa	Other	1 Methanol	2 Methanol	3 Acetic	4 Acetic		5 Acetic
B02@ 9'	5/21/21	1453	2	X				X				X	X	X	X	X	Groundwater Protection 1
B02@ 6.5'		1456	2	X				X				X	X	X	X	X	
S02@ 6.5'		1458	2	X				X				X	X	X	X	X	
W02@ 6.5'		1502	2	X				X				X	X	X	X	X	
E02@ 6.5'		1505	2	X				X				X	X	X	X	X	
Pothole 01 - W01@ 6'		1431	3					X				X	X	X	X	X	
Pothole 01 - S01@ 6'		1433	3					X				X	X	X	X	X	
Pothole 01 - W01@ 6'		1435	3					X				X	X	X	X	X	
Pothole 01 - E01@ 6'		1437	3					X				X	X	X	X	X	
Pothole 01 - B01@ 7'		1440	3					X				X	X	X	X	X	
Relinquished By: <i>Jordan Merrill</i>	Date: 5/21/2021	Time: 1930	Received By: <i>[Signature]</i>	Date: 5/21/21	Time: 1932	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:	Received By:	Date:	Time:												

Temp Received: 49 Date Results Needed

Origins Laboratory, Inc.

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.000 Task 0605

Project: KMG - Schmid 2-34

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

Sample Receipt Checklist

Origins Work Order: 7105461 Client: WSP USA

Client Project ID: KMG - Schmid 2-34

Checklist Completed by: Don Lee Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 5-24-21 Airbill #: _____

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

Cooler Number/Temperature: / 4.9 °C / _____ °C / _____ °C / _____ °C (Describe)

Thermometer ID: 1603

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):				
<p>⁽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.</p>				
Reviewed by (Project Manager) <u>[Signature]</u>				Date/Time Reviewed <u>5-21-21</u>

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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

B02@9'

5/24/2021 2:53:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y105461-01 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L555491	05/27/2021	05/27/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	67.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	68.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	62 %		29-110			"	"	"	

Total Metals by 6020B

Arsenic	1.92	0.0855	0.25	mg/Kg	5	L555277	05/26/2021	05/27/2021	
Lead	7.34	0.031	0.25	"	"	"	"	"	
Selenium	0.213	0.103	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

N02@6.5'
5/24/2021 2:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y105461-02 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L555491	05/27/2021	05/27/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	59.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	62.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	54.3 %		29-110			"	"	"	

Total Metals by 6020B

Arsenic	0.624	0.0855	0.25	mg/Kg	5	L555277	05/26/2021	05/27/2021	
Lead	3.07	0.031	0.25	"	"	"	"	"	
Selenium	0.142	0.103	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

S02@6.5'
5/24/2021 2:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y105461-03 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L555491	05/27/2021	05/27/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	70 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	73.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	62.8 %		29-110			"	"	"	

Total Metals by 6020B

Arsenic	0.862	0.0855	0.25	mg/Kg	5	L555277	05/26/2021	05/27/2021	
Lead	3.39	0.031	0.25	"	"	"	"	"	
Selenium	0.139	0.103	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

W02@6.5'

5/24/2021 3:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y105461-04 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L555491	05/27/2021	05/27/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	68.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	69.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	60.9 %		29-110			"	"	"	

Total Metals by 6020B

Arsenic	0.465	0.0855	0.25	mg/Kg	5	L555277	05/26/2021	05/27/2021	
Lead	2.98	0.031	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

E02@6.5'
5/24/2021 3:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y105461-05 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L555491	05/27/2021	05/27/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	65.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	68.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	59.6 %		29-110			"	"	"	

Total Metals by 6020B

Arsenic	0.993	0.0855	0.25	mg/Kg	5	L555277	05/26/2021	05/27/2021	
Lead	3.54	0.031	0.25	"	"	"	"	"	
Selenium	0.177	0.103	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

Pothole01-N01@6'
5/24/2021 2:31:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y105461-06 (Soil)

Metals by Saturated Paste

Calcium	6.62			meq/L	1	[CALC]	05/25/2021	05/25/2021	
Magnesium	3.44			"	"	"	"	"	
Sodium	16.3			"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L555491	05/27/2021	05/27/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	64.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	67.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	58.6 %		29-110			"	"	"	

SAR by 20B Saturated Paste

SAR	7.25			SAR	1	B1E2513	05/25/2021	05/25/2021	
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Total Metals by 6020B

Arsenic	0.923	0.0855	0.25	mg/Kg	5	L555277	05/26/2021	05/27/2021	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

Pothole01-S01@6'
5/24/2021 2:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y105461-07 (Soil)

Metals by Saturated Paste

Calcium	5.19			meq/L	1	[CALC]	05/25/2021	05/25/2021	
Magnesium	2.54			"	"	"	"	"	
Sodium	11.8			"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L555491	05/27/2021	05/27/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	67.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	69 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	59.9 %		29-110			"	"	"	

SAR by 20B Saturated Paste

SAR	5.99			SAR	1	B1E2513	05/25/2021	05/25/2021	
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Total Metals by 6020B

Arsenic	1.26	0.0855	0.25	mg/Kg	5	L555277	05/26/2021	05/27/2021	
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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

Pothole01-W01@6'
5/24/2021 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y105461-08 (Soil)

Metals by Saturated Paste

Calcium	1.86			meq/L	1	[CALC]	05/25/2021	05/25/2021	
Magnesium	0.973			"	"	"	"	"	
Sodium	7.49			"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L555491	05/27/2021	05/27/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	56.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	61.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52.3 %		29-110			"	"	"	

SAR by 20B Saturated Paste

SAR	6.29			SAR	1	B1E2513	05/25/2021	05/25/2021	
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Total Metals by 6020B

Arsenic	0.926	0.0855	0.25	mg/Kg	5	L555277	05/26/2021	05/27/2021	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

Pothole01-E01@6'
5/24/2021 2:37:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y105461-09 (Soil)

Metals by Saturated Paste

Calcium	4.06			meq/L	1	[CALC]	05/25/2021	05/25/2021	
Magnesium	1.92			"	"	"	"	"	
Sodium	11.6			"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L555491	05/27/2021	05/27/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	58.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	62.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	53.7 %		29-110			"	"	"	

SAR by 20B Saturated Paste

SAR	6.73			SAR	1	B1E2513	05/25/2021	05/25/2021	
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Total Metals by 6020B

Arsenic	1.1	0.0855	0.25	mg/Kg	5	L555277	05/26/2021	05/27/2021	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

Pothole01-B01@7'
5/24/2021 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y105461-10 (Soil)

Metals by Saturated Paste

Calcium	7.83			meq/L	1	[CALC]	05/25/2021	05/25/2021	
Magnesium	3.95			"	"	"	"	"	
Sodium	12.3			"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L555491	05/27/2021	05/27/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	57.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	63.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	51.8 %		29-110			"	"	"	

SAR by 20B Saturated Paste

SAR	5.07			SAR	1	B1E2513	05/25/2021	05/25/2021	
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Total Metals by 6020B

Arsenic	0.707	0.0855	0.25	mg/Kg	5	L555277	05/26/2021	05/27/2021	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

BG02@9'
5/24/2021 3:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y105461-11 (Soil)

Boron (Sorbitol)

Boron	0.4			mg/L	1	[none]	05/26/2021	05/27/2021	
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Metals by Saturated Paste

Calcium	5.28			meq/L	1	[CALC]	05/25/2021	05/25/2021	
Magnesium	3.06			"	"	"	"	"	
Sodium	7.89			"	"	"	"	"	

pH in Soil by EPA 9045D

pH	7.83			pH Units	1	B1E2510	05/25/2021	05/26/2021	
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SAR by 20B Saturated Paste

SAR	3.86			SAR	1	B1E2513	05/25/2021	05/25/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.82		0.00500	mmhos/cm	1	B1E2512	05/25/2021	05/26/2021	
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Total Metals by 6020B

Arsenic	0.949	0.0855	0.25	mg/Kg	5	L555278	05/26/2021	05/27/2021	
Barium	36.3	0.042	0.25	"	"	"	"	"	
Cadmium	0.0674	0.0259	0.25	"	"	"	"	"	J
Copper	4.48	0.0806	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

BG02@9'
5/24/2021 3:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y105461-11 (Soil)

Total Metals by 6020B

Lead	5.14	0.031	0.25	mg/Kg	5	L555278	05/26/2021	05/27/2021	
Nickel	3.74	0.0633	0.25	"	"	"	"	"	
Selenium	0.171	0.103	0.25	"	"	"	"	"	J
Silver	0.0298	0.0067	0.25	"	"	"	"	"	J
Zinc	18.5	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L555416	05/24/2021	05/27/2021	
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 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

Pothole01-GW01
5/24/2021 2:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y105461-12 (Water)

Anions by IC 300.0

Chloride	237		31.2	mg/L	125	B1E2502	05/25/2021	05/25/2021	
Sulfate	374		31.2	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		4.00	ug/L	4	B1E2104	05/24/2021	05/24/2021	U
1,3,5-Trimethylbenzene	ND		4.00	"	"	"	"	"	U
Benzene	ND		4.00	"	"	"	"	"	U
Ethylbenzene	ND		4.00	"	"	"	"	"	U
Naphthalene	ND		16.0	"	"	"	"	"	U
Toluene	ND		4.00	"	"	"	"	"	U
Xylenes, total	ND		4.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.3 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2300		5.00	mg/L	1	B1E2414	05/24/2021	05/25/2021	
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Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 B1E2104 - EPA 5030B (Water)

Blank (B1E2104-BLK1)

Prepared: 05/21/2021 Analyzed: 05/24/2021

1,2,4-Trimethylbenzene	ND	1.00	ug/L							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	4.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5	103		70-130			
Surrogate: Toluene-d8	62		"	62.5	99.6		70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	96.9		70-130			

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Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 B1E2104 - EPA 5030B (Water)

LCS (B1E2104-BS1)

Prepared: 05/21/2021 Analyzed: 05/24/2021

1,2,4-Trimethylbenzene	55.2	1.00	ug/L	50.0		110	70-130			
1,3,5-Trimethylbenzene	59.9	1.00	"	50.0		120	70-130			
Benzene	54.1	1.00	"	50.0		108	70-130			
Ethylbenzene	57.3	1.00	"	50.0		115	70-130			
m,p-Xylene	112	2.00	"	100		112	70-130			
Naphthalene	55.0	4.00	"	50.0		110	70-130			
o-Xylene	53.6	1.00	"	50.0		107	70-130			
Toluene	55.2	1.00	"	50.0		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	70-130			

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Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 B1E2104 - EPA 5030B (Water)

Matrix Spike (B1E2104-MS1)	Source: Y105412-02			Prepared: 05/21/2021 Analyzed: 05/25/2021						
1,2,4-Trimethylbenzene	48.2	1.00	ug/L	50.0	ND	96.3	70-130			
1,3,5-Trimethylbenzene	49.2	1.00	"	50.0	ND	98.4	70-130			
Benzene	47.5	1.00	"	50.0	ND	95.0	70-130			
Ethylbenzene	47.7	1.00	"	50.0	ND	95.5	70-130			
m,p-Xylene	95.3	2.00	"	100	ND	95.3	70-130			
Naphthalene	63.3	4.00	"	50.0	ND	127	70-130			
o-Xylene	49.3	1.00	"	50.0	ND	98.5	70-130			
Toluene	48.5	1.00	"	50.0	ND	97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.3	70-130			

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 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 B1E2104 - EPA 5030B (Water)

Matrix Spike Dup (B1E2104-MSD1)	Source: Y105412-02			Prepared: 05/21/2021 Analyzed: 05/25/2021						
1,2,4-Trimethylbenzene	49.9	1.00	ug/L	50.0	ND	99.8	70-130	3.59	20	
1,3,5-Trimethylbenzene	52.1	1.00	"	50.0	ND	104	70-130	5.68	20	
Benzene	49.7	1.00	"	50.0	ND	99.3	70-130	4.47	20	
Ethylbenzene	50.9	1.00	"	50.0	ND	102	70-130	6.49	20	
m,p-Xylene	101	2.00	"	100	ND	101	70-130	5.35	20	
Naphthalene	66.9	4.00	"	50.0	ND	134	70-130	5.55	20	QM-07
o-Xylene	52.2	1.00	"	50.0	ND	104	70-130	5.72	20	
Toluene	51.2	1.00	"	50.0	ND	102	70-130	5.33	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.6	70-130			

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Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 B1E2414 - NO PREP

Blank (B1E2414-BLK1)

Prepared: 05/24/2021 Analyzed: 05/25/2021

Total Dissolved Solids ND 5.00 mg/L

LCS (B1E2414-BS1)

Prepared: 05/24/2021 Analyzed: 05/25/2021

Total Dissolved Solids 753 5.00 mg/L 716 105 85-115

Duplicate (B1E2414-DUP1)

Source: Y105349-09

Prepared: 05/24/2021 Analyzed: 05/25/2021

Total Dissolved Solids 883 5.00 mg/L 918 3.89 20

Batch B1E2502 - Filter .45um non acidified

Blank (B1E2502-BLK1)

Prepared: 05/25/2021 Analyzed: 05/25/2021

Chloride ND 0.250 mg/L

Sulfate ND 0.250 "

LCS (B1E2502-BS1)

Prepared: 05/25/2021 Analyzed: 05/25/2021

Chloride 4.21 0.250 mg/L 4.00 105 90-110

Sulfate 4.08 0.250 " 4.00 102 90-110

Matrix Spike (B1E2502-MS1)

Source: Y105417-08

Prepared: 05/25/2021 Analyzed: 05/25/2021

Chloride 1500 mg/L 500 979 104 80-120

Sulfate 3600 " 500 3060 107 80-120

Matrix Spike Dup (B1E2502-MSD1)

Source: Y105417-08

Prepared: 05/25/2021 Analyzed: 05/25/2021

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 Project: KMG - Schmid 2-34

Classical Chemistry Parameters - Quality Control
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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 B1E2502 - Filter .45um non acidified

Matrix Spike Dup (B1E2502-MSD1)	Source: Y105417-08			Prepared: 05/25/2021 Analyzed: 05/25/2021						
Chloride	1500		mg/L	500	979	103	80-120	0.0643	20	
Sulfate	3590		"	500	3060	105	80-120	0.277	20	

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 Project: KMG - Schmid 2-34

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1E2510 - NO PREP										
Duplicate (B1E2510-DUP1)		Source: Y105461-11			Prepared: 05/25/2021 Analyzed: 05/26/2021					
pH	7.60		pH Units		7.83			2.88	25	
Batch B1E2512 - NO PREP										
Blank (B1E2512-BLK1)		Prepared: 05/25/2021 Analyzed: 05/26/2021								
Specific Conductance (EC)	0.00430	0.00500	mmhos/cm							
Duplicate (B1E2512-DUP1)		Source: Y105461-11			Prepared: 05/25/2021 Analyzed: 05/26/2021					
Specific Conductance (EC)	1.86	0.00500	mmhos/cm		1.82			2.19	25	

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Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 L555491 - 3550B

MSD (L 89664-MSD-L555491)		Source: Y105461-02			Prepared: 05/27/2021 Analyzed: 05/27/2021					
Naphthalene	0.107	0.000467	mg/Kg	0.164	89664	65.2	30-130	1.8	30	
1-Methylnaphthalene	0.115	0.00048	"	0.164	89664	70.1	30-130	3.5	30	
2-Methylnaphthalene	0.114	0.000542	"	0.164	89664	69.5	30-130	2.6	30	
Surrogate: 4-Terphenyl-d14	69.8		"	0.328	204	69.8	33-122			
Surrogate: 2-Fluorobiphenyl	66.1		"	0.328	194	66.1	33-115			
Surrogate: Nitrobenzene-d5	59.4		"	0.328	177	59.4	29-110			

MS (L 89664-MS-L555491)		Source: Y105461-02			Prepared: 05/27/2021 Analyzed: 05/27/2021					
Naphthalene	0.105	0.000467	mg/Kg	0.163	89664	64.4	30-130			
2-Methylnaphthalene	0.111	0.000542	"	0.163	89664	68	30-130			
1-Methylnaphthalene	0.111	0.00048	"	0.163	89664	68	30-130			
Surrogate: 2-Fluorobiphenyl	67.8		"	0.327	194	67.8	33-115			
Surrogate: Nitrobenzene-d5	62		"	0.327	177	62	29-110			
Surrogate: 4-Terphenyl-d14	71.5		"	0.327	204	71.5	33-122			

LCS (LCS-L555491)		Prepared: 05/27/2021 Analyzed: 05/27/2021								
Naphthalene	0.099	0.000467	mg/Kg	0.167		59.2	30-130			
1-Methylnaphthalene	0.106	0.00048	"	0.167		63.4	30-130			
2-Methylnaphthalene	0.105	0.000542	"	0.167		62.8	30-130			
Surrogate: 4-Terphenyl-d14	68.1		"	0.333		68.1	33-122			
Surrogate: 2-Fluorobiphenyl	69.3		"	0.333		69.3	33-115			
Surrogate: Nitrobenzene-d5	61.2		"	0.333		61.2	29-110			

LRB (LRB-L555491)		Prepared: 05/27/2021 Analyzed: 05/27/2021								
2-Methylnaphthalene	ND	0.00067	mg/Kg			-				
Naphthalene	ND	0.00067	"			-				
1-Methylnaphthalene	ND	0.00067	"			-				
Surrogate: 2-Fluorobiphenyl	69		"	0.333		69	33-115			

Origins Laboratory, Inc.



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Brian Sulzberger
Project Number: 31403177.000 Task 0605
Project: KMG - Schmid 2-34

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 L555491 - 3550B

LRB (LRB-L555491)

Prepared: 05/27/2021 Analyzed: 05/27/2021

Surrogate: 4-Terphenyl-d14	70.2		mg/Kg	0.333		70.2	33-122			
Surrogate: Nitrobenzene-d5	57.3		"	0.333		57.3	29-110			

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Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 L555278 - 3050B

MSD (L 89393-MSD-L555278)		Source: 89393			Prepared: 05/26/2021 Analyzed: 05/27/2021					
Copper	3.86	0.0806	mg/Kg	2.42	1.57	95	75-125	7	80	
Cadmium	0.421	0.0259	"	0.484	89393	87	75-125	8.4	80	
Lead	2.36	0.031	"	2.42	0.18	98	75-125	8.5	80	
Nickel	2.9	0.0633	"	2.42	0.656	93	75-125	3.3	80	
Selenium	4.65	0.103	"	4.84	0.117	96	75-125	3.1	80	
Silver	0.426	0.0067	"	0.484	89393	88	75-125	4.1	80	
Zinc	25.4	0.534	"	24.2	3.11	92	75-125	6.4	80	
Barium	11.1	0.042	"	4.84	7.02	84	75-125	4.4	80	
Arsenic	2.28	0.0855	"	2.42	89393	94	75-125	5.1	80	

MS (L 89393-MS-L555278)		Source: 89393			Prepared: 05/26/2021 Analyzed: 05/27/2021					
Lead	2.57	0.031	mg/Kg	2.49	0.18	103	75-125			
Zinc	27.1	0.534	"	24.9	3.11	97	75-125			
Silver	0.444	0.0067	"	0.497	89393	89	75-125			
Nickel	3	0.0633	"	2.49	0.656	94	75-125			
Copper	4.14	0.0806	"	2.49	1.57	103	75-125			
Cadmium	0.458	0.0259	"	0.497	89393	92	75-125			
Barium	11.6	0.042	"	4.97	7.02	92	75-125			
Arsenic	2.4	0.0855	"	2.49	89393	97	75-125			
Selenium	4.8	0.103	"	4.97	0.117	97	75-125			

LCS (LCS-L555278)		Prepared: 05/26/2021 Analyzed: 05/27/2021								
Arsenic	2.41	0.0855	mg/Kg	2.5		96	80-120			
Barium	4.65	0.042	"	5		93	80-120			
Cadmium	0.457	0.0259	"	0.5		91	80-120			
Copper	2.42	0.0806	"	2.5		97	80-120			
Lead	2.32	0.031	"	2.5		93	80-120			

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Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 L555278 - 3050B

LCS (LCS-L555278)

Prepared: 05/26/2021 Analyzed: 05/27/2021

Nickel	2.48	0.0633	mg/Kg	2.5		99	80-120			
Selenium	5.09	0.103	"	5		102	80-120			
Silver	0.479	0.0067	"	0.5		96	80-120			
Zinc	25	0.534	"	25		100	80-120			

LRB (LRB-L555278)

Prepared: 05/26/2021 Analyzed: 05/27/2021

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

Origins Laboratory, Inc.



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WSP USA
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Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 L555277 - 3050B										
MSD (L 89672-MSD-L555277)			Source: Y105461-10			Prepared: 05/26/2021 Analyzed: 05/27/2021				
Arsenic	2.51	0.0855	mg/Kg	2.37	0.707	76	75-125	2.7	80	
Lead	6.49	0.031	"	2.37	3.45	128	75-125	5.7	80	*
Selenium	3.53	0.103	"	4.73	0.167	75	75-125	9.7	80	
MS (L 89672-MS-L555277)			Source: Y105461-10			Prepared: 05/26/2021 Analyzed: 05/27/2021				
Arsenic	2.58	0.0855	mg/Kg	2.48	0.707	76	75-125			
Lead	6.13	0.031	"	2.48	3.45	108	75-125			
Selenium	3.89	0.103	"	4.96	0.167	79	75-125			
LCS (LCS-L555277)						Prepared: 05/26/2021 Analyzed: 05/27/2021				
Arsenic	2.49	0.0855	mg/Kg	2.5		100	80-120			
Lead	2.43	0.031	"	2.5		97	80-120			
Selenium	5.09	0.103	"	5		102	80-120			
LRB (LRB-L555277)						Prepared: 05/26/2021 Analyzed: 05/27/2021				
Selenium	ND	0.25	mg/Kg				-			
Lead	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			

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WSP USA
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 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 L555416 -										
DUP (L 89658-DUP)		Source: 89658			Prepared: Analyzed: 05/27/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		89658		-	0	20	
MS (L 89658-MS)		Source: 89658			Prepared: Analyzed: 05/27/2021					
Chromium, Hexavalent	5.83	0.247	mg/Kg	8.13	89658	72	75-125			*
LCS (LCS)		Prepared: Analyzed: 05/27/2021								
Chromium, Hexavalent	6.67	0.244	mg/Kg	8		83	75-125			
LRB (LRB)		Prepared: Analyzed: 05/27/2021								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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

Brian Sulzberger
Project Number: 31403177.000 Task 0605
Project: KMG - Schmid 2-34

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.

* 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.



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June 21, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada CO 80003

Project Name - KMG - Schmid 2-34

Project Number - 31403177.000 Task 060!

Attached are your analytical results for KMG - Schmid 2-34 received by Origins Laboratory, Inc. June 11, 2021. This project is associated with Origins project number Y106276-01.

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: 31403177.000 Task 0605
Project: KMG - Schmid 2-34

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pothole-N02@5'	Y106276-01	Soil	June 11, 2021 12:20	06/11/2021 17:53
Pothole-E02@5'	Y106276-02	Soil	June 11, 2021 0:00	06/11/2021 17:53
Pothole-S02@5'	Y106276-03	Soil	June 11, 2021 12:30	06/11/2021 17:53
Pothole-W02@5'	Y106276-04	Soil	June 11, 2021 12:24	06/11/2021 17:53
B03@12'	Y106276-05	Soil	June 11, 2021 12:56	06/11/2021 17:53
E03@12'	Y106276-06	Soil	June 11, 2021 12:56	06/11/2021 17:53
Native-BG03@12'	Y106276-07	Soil	June 11, 2021 12:35	06/11/2021 17:53

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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

Sample Receipt Checklist

Origins Work Order: Y106276 Client: WSP USA
 Client Project ID: Schmidt 2-34

Checklist Completed by: JW Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 6-11-21 Airbill #: _____

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1.8 °C °C °C (Describe)
 Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<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 HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+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.

JW 6-11-21
 Reviewed by (Project Manager) Date/Time Reviewed

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
Project Number: 31403177.000 Task 0605
Project: KMG - Schmid 2-34

Pothole-N02@5'

6/11/2021 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106276-01 (Soil)

Metals by Saturated Paste

Calcium	3.80			meq/L	1	[CALC]	06/16/2021	06/16/2021	
Magnesium	1.97			"	"	"	"	"	
Sodium	9.70			"	"	"	"	"	

SAR by 20B Saturated Paste

SAR	5.71			SAR	"	B1F1615	"	"	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA
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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.000 Task 0605
Project: KMG - Schmid 2-34

Pothole-E02@5'

6/11/2021 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106276-02 (Soil)

Metals by Saturated Paste

Calcium	2.90			meq/L	1	[CALC]	06/15/2021	06/15/2021	
Magnesium	1.47			"	"	"	"	"	
Sodium	6.56			"	"	"	"	"	

SAR by 20B Saturated Paste

SAR	4.43			SAR	"	B1F1507	"	"	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

The results in 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: 31403177.000 Task 0605
Project: KMG - Schmid 2-34

Pothole-S02@5'

6/11/2021 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106276-03 (Soil)

Total Metals by 6020B

Arsenic	0.611	0.0855	0.25	mg/Kg	5	L558923	06/16/2021	06/17/2021	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

Pothole-W02@5'
6/11/2021 12:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106276-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.642		0.100	mg/L	1	B1F1415	06/14/2021	06/14/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	306		25.0	mg/kg	1	B1F1109	06/11/2021	06/11/2021	
Residual Range Organics (C28-C40)	140		100	"	"	"	"	"	

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

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1F1108	06/11/2021	06/12/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	44.7		5.00	"	25	"	"	06/11/2021	
Xylenes, total	ND		0.00200	"	1	"	"	06/12/2021	U

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			"	"	"	
Surrogate: Toluene-d8	92.5 %		70-130			"	"	"	

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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

Pothole-W02@5'
6/11/2021 12:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106276-04 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene	97.8 %		70-130			B1F11 08	06/11/2021	06/12/2021	
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Metals by Saturated Paste

Calcium	8.67			meq/L	1	[CALC]	06/15/2021	06/15/2021	
Magnesium	4.12			"	"	"	"	"	
Sodium	21.8			"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0468	0.0024	0.00335	mg/Kg	5	L558605	06/15/2021	06/16/2021	
2-Methylnaphthalene	0.00469	0.00271	0.00335	"	"	"	"	"	
Acenaphthene	0.0257	0.00216	0.00335	"	"	"	"	"	
Anthracene	0.0177	0.00213	0.00335	"	"	"	"	"	
Benzo(a)anthracene	0.00304	0.00221	0.00335	"	"	"	"	"	J
Benzo(a)pyrene	0.00481	0.000665	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	0.00277	0.00069	0.00335	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.00243	0.00335	"	"	"	"	"	
Chrysene	0.0052	0.00128	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.0014	0.00335	"	"	"	"	"	
Fluoranthene	0.00736	0.00265	0.00335	"	"	"	"	"	
Fluorene	0.0679	0.00251	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	0.003	0.00172	0.00335	"	"	"	"	"	J

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Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

Pothole-W02@5'
6/11/2021 12:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106276-04 (Soil)

PAH by 8270D SIM

Naphthalene	0.00243	0.00234	0.00335	mg/Kg	5	L558605	06/15/2021	06/16/2021	J
Pyrene	0.0342	0.00194	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	72.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	72.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	55.8 %		29-110			"	"	"	

pH in Soil by EPA 9045D

pH	7.79			pH Units	1	B1F1504	06/15/2021	06/15/2021	
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SAR by 20B Saturated Paste

SAR	8.61			SAR	1	B1F1507	06/15/2021	06/15/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	3.27		0.00500	mmhos/cm	1	B1F1506	06/15/2021	06/15/2021	
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Total Metals by 6020B

Arsenic	1.18	0.0855	0.25	mg/Kg	5	L558923	06/16/2021	06/17/2021	
Barium	41	0.042	0.25	"	"	"	"	"	
Cadmium	0.185	0.0259	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

Pothole-W02@5'
6/11/2021 12:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106276-04 (Soil)

Total Metals by 6020B

Copper	7.12	0.0806	0.25	mg/Kg	5	L558923	06/16/2021	06/17/2021	
Lead	10	0.031	0.25	"	"	"	"	"	
Nickel	3.64	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.0824	0.0067	0.25	"	"	"	"	"	J
Zinc	30.7	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	1	L559479	06/11/2021	06/21/2021	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.000 Task 0605
Project: KMG - Schmid 2-34

B03@12'

6/11/2021 12:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106276-05 (Soil)

Total Metals by 6020B

Arsenic	1.16	0.0855	0.25	mg/Kg	5	L559173	06/17/2021	06/18/2021	
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Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.000 Task 0605
Project: KMG - Schmid 2-34

E03@12'

6/11/2021 12:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106276-06 (Soil)

Total Metals by 6020B

Arsenic	0.188	0.0855	0.25	mg/Kg	5	L559173	06/17/2021	06/18/2021	J
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WSP USA
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 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

Native-BG03@12'
6/11/2021 12:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106276-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.182		0.0997	mg/L	1	B1F1415	06/14/2021	06/14/2021	
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Metals by Saturated Paste

Calcium	3.76			meq/L	"	[CALC]	06/15/2021	06/15/2021	
Magnesium	1.62			"	"	"	"	"	
Sodium	7.60			"	"	"	"	"	

pH in Soil by EPA 9045D

pH	7.92			pH Units	1	B1F1504	06/15/2021	06/15/2021	
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SAR by 20B Saturated Paste

SAR	4.63			SAR	1	B1F1507	06/15/2021	06/15/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.32		0.00500	mmhos/cm	1	B1F1506	06/15/2021	06/15/2021	
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Total Metals by 6020B

Arsenic	0.838	0.0855	0.25	mg/Kg	5	L559173	06/17/2021	06/18/2021	
Barium	35.7	0.042	0.25	"	"	"	"	"	
Cadmium	0.0496	0.0259	0.25	"	"	"	"	"	J
Copper	3.77	0.0806	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA
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 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

Native-BG03@12'
6/11/2021 12:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106276-07 (Soil)

Total Metals by 6020B

Lead	4.1	0.031	0.25	mg/Kg	5	L559173	06/17/2021	06/18/2021	
Nickel	4.19	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.0139	0.0067	0.25	"	"	"	"	"	J
Zinc	16.9	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L559479	06/11/2021	06/21/2021	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

The results in 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: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 B1F1108 - EPA 5030 (soil)

Blank (B1F1108-BLK1)

Prepared: 06/11/2021 Analyzed: 06/11/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.4	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 B1F1108 - EPA 5030 (soil)

LCS (B1F1108-BS1)

Prepared: 06/11/2021 Analyzed: 06/11/2021

1,2,4-Trimethylbenzene	0.0610	0.00200	mg/kg	0.0500		122	70-130			
Naphthalene	0.0550	0.0100	"	0.0500		110	70-130			
1,3,5-Trimethylbenzene	0.0576	0.00200	"	0.0500		115	70-130			
Benzene	0.0586	0.00200	"	0.0500		117	70-130			
Ethylbenzene	0.0561	0.00200	"	0.0500		112	70-130			
m,p-Xylene	0.114	0.00400	"	0.100		114	70-130			
o-Xylene	0.0567	0.00200	"	0.0500		113	70-130			
Toluene	0.0570	0.00200	"	0.0500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.8	70-130			

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Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 B1F1108 - EPA 5030 (soil)

Matrix Spike (B1F1108-MS1)	Source: Y106270-02			Prepared: 06/11/2021 Analyzed: 06/11/2021						
1,2,4-Trimethylbenzene	0.0431	0.00200	mg/kg	0.0500	ND	86.2	70-130			
Naphthalene	0.0383	0.0100	"	0.0500	0.00234	71.9	70-130			
1,3,5-Trimethylbenzene	0.0423	0.00200	"	0.0500	ND	84.5	70-130			
Benzene	0.0449	0.00200	"	0.0500	ND	89.8	70-130			
Ethylbenzene	0.0432	0.00200	"	0.0500	ND	86.5	70-130			
m,p-Xylene	0.0881	0.00400	"	0.100	ND	88.1	70-130			
o-Xylene	0.0431	0.00200	"	0.0500	ND	86.2	70-130			
Toluene	0.0457	0.00200	"	0.0500	ND	91.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.0	70-130			

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 Project: KMG - Schmid 2-34

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 B1F1108 - EPA 5030 (soil)

Matrix Spike Dup (B1F1108-MSD1)	Source: Y106270-02		Prepared: 06/11/2021 Analyzed: 06/11/2021							
1,2,4-Trimethylbenzene	0.0476	0.00200	mg/kg	0.0500	ND	95.3	70-130	10.1	20	
Naphthalene	0.0441	0.0100	"	0.0500	0.00234	83.5	70-130	14.0	20	
1,3,5-Trimethylbenzene	0.0473	0.00200	"	0.0500	ND	94.5	70-130	11.2	20	
Benzene	0.0494	0.00200	"	0.0500	ND	98.7	70-130	9.51	20	
Ethylbenzene	0.0480	0.00200	"	0.0500	ND	96.0	70-130	10.5	20	
m,p-Xylene	0.0963	0.00400	"	0.100	ND	96.3	70-130	8.89	20	
o-Xylene	0.0481	0.00200	"	0.0500	ND	96.1	70-130	10.8	20	
Toluene	0.0490	0.00200	"	0.0500	ND	98.0	70-130	7.01	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.8	70-130			

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 Project: KMG - Schmid 2-34

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 B1F1109 - EPA 3550B										
Blank (B1F1109-BLK1)										
					Prepared: 06/11/2021 Analyzed: 06/11/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	18		"	25.0		73.9	50-150			

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 Project: KMG - Schmid 2-34

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 B1F1109 - EPA 3550B

LCS (B1F1109-BS1)

Prepared: 06/11/2021 Analyzed: 06/11/2021

Diesel (C10-C28)	925	50.0	mg/kg	1000		92.5	70-130			
Residual Range Organics (C28-C40)	988	200	"	1000		98.8	70-130			
Surrogate: o-Terphenyl	51		"	50.0		102	50-150			

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Brian Sulzberger
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 Project: KMG - Schmid 2-34

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 B1F1109 - EPA 3550B

Matrix Spike (B1F1109-MS1)	Source: Y106259-01			Prepared: 06/11/2021 Analyzed: 06/11/2021						
Diesel (C10-C28)	953	50.0	mg/kg	1000	ND	95.3	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130			
Surrogate: o-Terphenyl	48		"	50.0		95.6	50-150			

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 Project: KMG - Schmid 2-34

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 B1F1109 - EPA 3550B

Matrix Spike Dup (B1F1109-MSD1)	Source: Y106259-01			Prepared: 06/11/2021 Analyzed: 06/11/2021						
Diesel (C10-C28)	819	50.0	mg/kg	1000	ND	81.9	70-130	15.2	35	
Residual Range Organics (C28-C40)	832	200	"	1000	ND	83.2	70-130	20.9	35	
Surrogate: o-Terphenyl	41		"	50.0		81.5	50-150			

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 Project: KMG - Schmid 2-34

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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 L558605 - 3550B

MSD (L 97038-MSD-L558605)		Source: 97038			Prepared: 06/15/2021 Analyzed: 06/16/2021					
Acenaphthene	0.108	0.000431	mg/Kg	0.164	<0.000431	65.8	30-130	20	30	
Naphthalene	0.0988	0.000467	"	0.164	<0.000467	60.2	30-130	16	30	
Indeno(1,2,3-cd)pyrene	0.0996	0.000344	"	0.164	<0.000344	60.7	30-130	4.4	30	
Fluorene	0.101	0.000501	"	0.164	<0.000501	61.5	30-130	22.8	30	
Benzo(k)fluoranthene	0.0823	0.000486	"	0.164	<0.000486	50.1	30-130	18.5	30	
Fluoranthene	0.105	0.000529	"	0.164	<0.000529	64	30-130	20.5	30	
Dibenz(a,h)anthracene	0.107	0.000279	"	0.164	<0.000279	65.2	30-130	4.7	30	
Benzo(b)fluoranthene	0.0872	0.000138	"	0.164	<0.000138	53.1	30-130	16.6	30	
Benzo(a)pyrene	0.114	0.000133	"	0.164	<0.000133	69.5	30-130	21.8	30	
Anthracene	0.104	0.000426	"	0.164	<0.000426	63.4	30-130	21.4	30	
1-Methylnaphthalene	0.104	0.00048	"	0.164	<0.000480	63.4	30-130	17.5	30	
2-Methylnaphthalene	0.105	0.000542	"	0.164	<0.000542	64	30-130	17.3	30	
Chrysene	0.113	0.000256	"	0.164	<0.000256	68.9	30-130	19.9	30	
Pyrene	0.102	0.000387	"	0.164	<0.000387	62.1	30-130	21	30	
Benzo(a)anthracene	0.113	0.000441	"	0.164	<0.000441	68.9	30-130	20.6	30	

Surrogate: Nitrobenzene-d5	53.7	"	0.329	186	53.7	29-110
Surrogate: 4-Terphenyl-d14	64.4	"	0.329	212	64.4	33-122
Surrogate: 2-Fluorobiphenyl	72.3	"	0.329	244	72.3	33-115

MS (L 97038-MS-L558605)		Source: 97038			Prepared: 06/15/2021 Analyzed: 06/16/2021					
2-Methylnaphthalene	0.125	0.000542	mg/Kg	0.166	<0.000542	75.3	30-130			
Benzo(a)pyrene	0.142	0.000133	"	0.166	<0.000133	85.5	30-130			
1-Methylnaphthalene	0.124	0.00048	"	0.166	<0.000480	74.6	30-130			
Anthracene	0.129	0.000426	"	0.166	<0.000426	77.7	30-130			
Acenaphthene	0.132	0.000431	"	0.166	<0.000431	79.5	30-130			
Benzo(a)anthracene	0.139	0.000441	"	0.166	<0.000441	83.7	30-130			
Benzo(b)fluoranthene	0.103	0.000138	"	0.166	<0.000138	62	30-130			

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Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L558605 - 3550B

MS (L 97038-MS-L558605)	Source: 97038			Prepared: 06/15/2021 Analyzed: 06/16/2021						
Benzo(k)fluoranthene	0.0991	0.000486	mg/Kg	0.166	<0.000486	59.6	30-130			
Chrysene	0.138	0.000256	"	0.166	<0.000256	83.1	30-130			
Pyrene	0.126	0.000387	"	0.166	<0.000387	75.9	30-130			
Fluoranthene	0.129	0.000529	"	0.166	<0.000529	77.7	30-130			
Fluorene	0.127	0.000501	"	0.166	<0.000501	76.5	30-130			
Indeno(1,2,3-cd)pyrene	0.0953	0.000344	"	0.166	<0.000344	57.4	30-130			
Naphthalene	0.116	0.000467	"	0.166	<0.000467	69.8	30-130			
Dibenz(a,h)anthracene	0.102	0.000279	"	0.166	<0.000279	61.4	30-130			
Surrogate: 2-Fluorobiphenyl	82.5		"	0.332	244	82.5	33-115			
Surrogate: Nitrobenzene-d5	58.7		"	0.332	186	58.7	29-110			
Surrogate: 4-Terphenyl-d14	77.4		"	0.332	212	77.4	33-122			

LCS (LCS-L558605)	Prepared: 06/15/2021 Analyzed: 06/16/2021									
Chrysene	0.131	0.000256	mg/Kg	0.167		78.4	30-130			
Dibenz(a,h)anthracene	0.115	0.000279	"	0.167		68.8	30-130			
Fluoranthene	0.122	0.000529	"	0.167		73	30-130			
Fluorene	0.122	0.000501	"	0.167		73	30-130			
Indeno(1,2,3-cd)pyrene	0.109	0.000344	"	0.167		65.2	30-130			
Pyrene	0.119	0.000387	"	0.167		71.2	30-130			
Naphthalene	0.116	0.000467	"	0.167		69.4	30-130			
Benzo(k)fluoranthene	0.0954	0.000486	"	0.167		57.1	30-130			
Benzo(b)fluoranthene	0.106	0.000138	"	0.167		63.4	30-130			
Benzo(a)pyrene	0.134	0.000133	"	0.167		80.2	30-130			
Benzo(a)anthracene	0.133	0.000441	"	0.167		79.6	30-130			
Anthracene	0.122	0.000426	"	0.167		73	30-130			
Acenaphthene	0.129	0.000431	"	0.167		77.2	30-130			
2-Methylnaphthalene	0.124	0.000542	"	0.167		74.2	30-130			

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 Project: KMG - Schmid 2-34

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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 L558605 - 3550B

LCS (LCS-L558605)

Prepared: 06/15/2021 Analyzed: 06/16/2021

1-Methylnaphthalene	0.124	0.00048	mg/Kg	0.167		74.2	30-130			
Surrogate: Nitrobenzene-d5	60.9		"	0.333		60.9	29-110			
Surrogate: 2-Fluorobiphenyl	85.8		"	0.333		85.8	33-115			
Surrogate: 4-Terphenyl-d14	74.7		"	0.333		74.7	33-122			

LRB (LRB-L558605)

Prepared: 06/15/2021 Analyzed: 06/16/2021

Benzo(a)pyrene	0.000205	0.00067	mg/Kg				-			J
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	75.6		"	0.333		75.6	33-115			
Surrogate: 4-Terphenyl-d14	65.7		"	0.333		65.7	33-122			
Surrogate: Nitrobenzene-d5	56.4		"	0.333		56.4	29-110			

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 Project: KMG - Schmid 2-34

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 L558923 - 3050B

MSD (L 97027-MSD-L558923)		Source: Y106276-04			Prepared: 06/16/2021 Analyzed: 06/18/2021					
Arsenic	2.95	0.0855	mg/Kg	2.44	1.18	72	75-125	11.4	80	*
Barium	50.5	0.042	"	4.89	41	194	75-125	7.6	80	*
Cadmium	0.673	0.0259	"	0.489	0.185	138	75-125	0.2	80	*
Copper	9.46	0.0806	"	2.44	7.12	96	75-125	1.3	80	
Lead	12.7	0.031	"	2.44	10	110	75-125	12.5	80	
Nickel	6.3	0.0633	"	2.44	3.64	109	75-125	5.1	80	
Selenium	3.5	0.103	"	4.89	<0.103	72	75-125	3.1	80	*
Zinc	54.2	0.534	"	24.4	30.7	96	75-125	0.5	80	
Silver	0.531	0.0067	"	0.489	0.0824	109	75-125	2.4	80	

MS (L 97027-MS-L558923)		Source: Y106276-04			Prepared: 06/16/2021 Analyzed: 06/18/2021					
Copper	9.33	0.0806	mg/Kg	2.45	7.12	90	75-125			
Zinc	54.5	0.534	"	24.5	30.7	97	75-125			
Silver	0.518	0.0067	"	0.49	0.0824	106	75-125			
Selenium	3.39	0.103	"	4.9	<0.103	69	75-125			*
Nickel	6.63	0.0633	"	2.45	3.64	122	75-125			
Lead	11.2	0.031	"	2.45	10	49	75-125			*
Cadmium	0.671	0.0259	"	0.49	0.185	137	75-125			*
Arsenic	2.63	0.0855	"	2.45	1.18	59	75-125			*
Barium	54.5	0.042	"	4.9	41	275	75-125			*

LCS (LCS-L558923)		Prepared: 06/16/2021 Analyzed: 06/17/2021								
Silver	0.445	0.0067	mg/Kg	0.5		89	80-120			
Selenium	4.37	0.103	"	5		87	80-120			
Nickel	2.2	0.0633	"	2.5		88	80-120			
Lead	2.35	0.031	"	2.5		94	80-120			
Copper	2.25	0.0806	"	2.5		90	80-120			

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 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 L558923 - 3050B

LCS (LCS-L558923)

Prepared: 06/16/2021 Analyzed: 06/17/2021

Cadmium	0.448	0.0259	mg/Kg	0.5		90	80-120			
Barium	4.49	0.042	"	5		90	80-120			
Arsenic	2.12	0.0855	"	2.5		85	80-120			
Zinc	22.7	0.534	"	25		91	80-120			

LRB (LRB-L558923)

Prepared: 06/16/2021 Analyzed: 06/17/2021

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

Batch L559173 - 3050B

MSD (L 97368-MSD-L559173)

Source: 97368

Prepared: 06/17/2021 Analyzed: 06/18/2021

Copper	17.3	0.0806	mg/Kg	2.43	14.8	103	75-125	5	80	
Zinc	80.3	0.534	"	24.3	56.3	99	75-125	2.9	80	
Silver	0.47	0.0067	"	0.486	0.0512	97	75-125	1	80	
Selenium	3.13	0.103	"	4.86	0.191	64	75-125	1.8	80	*
Nickel	17.1	0.0633	"	2.43	14.7	99	75-125	17.6	80	
Cadmium	0.569	0.0259	"	0.486	0.127	117	75-125	18.6	80	
Barium	104	0.042	"	4.86	92.5	237	75-125	19.9	80	*
Lead	16.4	0.031	"	2.43	14.2	91	75-125	25.5	80	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 L559173 - 3050B										
MSD (L 97368-MSD-L559173)			Source: 97368			Prepared: 06/17/2021 Analyzed: 06/18/2021				
Arsenic	6.4	0.0855	mg/Kg	2.43	4.68	71	75-125	19.3	80	*
MS (L 97368-MS-L559173)			Source: 97368			Prepared: 06/17/2021 Analyzed: 06/18/2021				
Selenium	3.19	0.103	mg/Kg	4.99	0.191	64	75-125			*
Zinc	82.7	0.534	"	25	56.3	106	75-125			
Nickel	20.4	0.0633	"	2.5	14.7	228	75-125			*
Arsenic	7.77	0.0855	"	2.5	4.68	124	75-125			
Cadmium	0.686	0.0259	"	0.499	0.127	137	75-125			*
Copper	18.2	0.0806	"	2.5	14.8	136	75-125			*
Lead	21.2	0.031	"	2.5	14.2	281	75-125			*
Barium	127	0.042	"	4.99	92.5	691	75-125			*
Silver	0.465	0.0067	"	0.499	0.0512	93	75-125			
LCS (LCS-L559173)						Prepared: 06/17/2021 Analyzed: 06/18/2021				
Barium	4.7	0.042	mg/Kg	5		94	80-120			
Lead	2.34	0.031	"	2.5		94	80-120			
Cadmium	0.477	0.0259	"	0.5		95	80-120			
Arsenic	2.29	0.0855	"	2.5		92	80-120			
Selenium	4.88	0.103	"	5		98	80-120			
Silver	0.461	0.0067	"	0.5		92	80-120			
Zinc	23	0.534	"	25		92	80-120			
Nickel	2.34	0.0633	"	2.5		94	80-120			
Copper	2.3	0.0806	"	2.5		92	80-120			
LRB (LRB-L559173)						Prepared: 06/17/2021 Analyzed: 06/18/2021				
Zinc	ND	2.5	mg/Kg				-			
Silver	ND	0.25	"				-			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 L559173 - 3050B

LRB (LRB-L559173)

Prepared: 06/17/2021 Analyzed: 06/18/2021

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

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA
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Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 L559479 -										
DUP (L 97027-DUP)		Source: Y106276-04			Prepared: Analyzed: 06/21/2021					
Chromium, Hexavalent	ND	1.22	mg/Kg		<2.50		-	0	20	
MS (L 97027-MS)		Source: Y106276-04			Prepared: Analyzed: 06/21/2021					
Chromium, Hexavalent	ND	1.22	mg/Kg	7.96	<1.22	0	75-125			*
LCS (LCS)		Prepared: Analyzed: 06/21/2021								
Chromium, Hexavalent	8.06	0.244	mg/Kg	8		101	75-125			
LRB (LRB)		Prepared: Analyzed: 06/21/2021								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA
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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.000 Task 0605
Project: KMG - Schmid 2-34

Notes and Definitions

- U Sample is Non-Detect.
 - 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 Noelle Doyle Mathis, President

The results in 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 12, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada CO 80003

Project Name - KMG - Schmid 2-34

Project Number - 31403177.000 Task 060!

Attached are your analytical results for KMG - Schmid 2-34 received by Origins Laboratory, Inc. July 02, 2021. This project is associated with Origins project number Y107078-01.

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: 31403177.000 Task 0605
Project: KMG - Schmid 2-34

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B04@15'	Y107078-01	Soil	July 2, 2021 12:50	07/02/2021 16:31
Pothole-W03@5'	Y107078-02	Soil	July 2, 2021 12:38	07/02/2021 16:31

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.

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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y107078

Client: WSP

Client Project ID: Schmid 2-34

Checklist Completed by: JG

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Date/time completed: 7/2/21

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

Cooler Number/Temperature: 1152 °C _____ °C _____ °C _____ °C (Describe)

Thermometer ID: T003

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

Date/Time Reviewed: 7-6-21

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.000 Task 0605
Project: KMG - Schmid 2-34

B04@15'

7/2/2021 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107078-01 (Soil)

Total Metals by 6020B

Arsenic	1.35	0.0855	0.25	mg/Kg	5	L562500	07/07/2021	07/08/2021	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

Pothole-W03@5'
7/2/2021 12:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107078-02 (Soil)

Metals by Saturated Paste

Calcium	6.45		0.0499	meq/L	1	[CALC]	07/07/2021	07/07/2021	
Magnesium	2.85		0.0823	"	"	"	"	"	
Sodium	18.3		0.0435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L562485	07/07/2021	07/07/2021	
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Surrogate: 2-Fluorobiphenyl	67.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	63.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	71.9 %		29-110			"	"	"	

SAR by 20B Saturated Paste

SAR	8.48			SAR	1	B1G0705	07/07/2021	07/07/2021	
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Total Metals by 6020B

Arsenic	1.17	0.0855	0.25	mg/Kg	5	L562500	07/07/2021	07/08/2021	
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Origins Laboratory, Inc.



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WSP USA
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Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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
Batch L562485 - 3550B										
MSD (L 95081-MSD-L562485)			Source: 95081			Prepared: 07/07/2021 Analyzed: 07/07/2021				
1-Methylnaphthalene	0.111	0.00048	mg/Kg	0.166	<0.000480	66.8	30-130	18.5	30	
Surrogate: 2-Fluorobiphenyl	62.9		"	0.332	197	62.9	33-115			
Surrogate: 4-Terphenyl-d14	65		"	0.332	193	65	33-122			
Surrogate: Nitrobenzene-d5	68.6		"	0.332	222	68.6	29-110			
MS (L 95081-MS-L562485)			Source: 95081			Prepared: 07/07/2021 Analyzed: 07/07/2021				
1-Methylnaphthalene	0.0922	0.00048	mg/Kg	0.166	<0.000480	55.5	30-130			
Surrogate: 2-Fluorobiphenyl	56.6		"	0.332	197	56.6	33-115			
Surrogate: 4-Terphenyl-d14	55.7		"	0.332	193	55.7	33-122			
Surrogate: Nitrobenzene-d5	59.9		"	0.332	222	59.9	29-110			
LCS (LCS-L562485)						Prepared: 07/07/2021 Analyzed: 07/07/2021				
1-Methylnaphthalene	0.112	0.00048	mg/Kg	0.167		67	30-130			
Surrogate: 4-Terphenyl-d14	58.2		"	0.333		58.2	33-122			
Surrogate: 2-Fluorobiphenyl	66.6		"	0.333		66.6	33-115			
Surrogate: Nitrobenzene-d5	68.4		"	0.333		68.4	29-110			
LRB (LRB-L562485)						Prepared: 07/07/2021 Analyzed: 07/07/2021				
1-Methylnaphthalene	ND	0.00067	mg/Kg				-			
Surrogate: 2-Fluorobiphenyl	60.9		"	0.333		60.9	33-115			
Surrogate: 4-Terphenyl-d14	60.3		"	0.333		60.3	33-122			
Surrogate: Nitrobenzene-d5	63		"	0.333		63	29-110			

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Brian Sulzberger
 Project Number: 31403177.000 Task 0605
 Project: KMG - Schmid 2-34

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 L562500 - 3050B										
MSD (L 95431-MSD-L562500)		Source: 95431			Prepared: 07/07/2021 Analyzed: 07/08/2021					
Arsenic	2.26	0.0855	mg/Kg	2.48	<0.0855	91	75-125	4.9	80	
MS (L 95431-MS-L562500)		Source: 95431			Prepared: 07/07/2021 Analyzed: 07/08/2021					
Arsenic	2.15	0.0855	mg/Kg	2.41	<0.0855	89	75-125			
LCS (LCS-L562500)		Prepared: 07/07/2021 Analyzed: 07/08/2021								
Arsenic	2.44	0.0855	mg/Kg	2.5		98	80-120			
LRB (LRB-L562500)		Prepared: 07/07/2021 Analyzed: 07/08/2021								
Arsenic	ND	0.25	mg/Kg							

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.000 Task 0605

Project: KMG - Schmid 2-34

Notes and Definitions

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.



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