

FIGURES



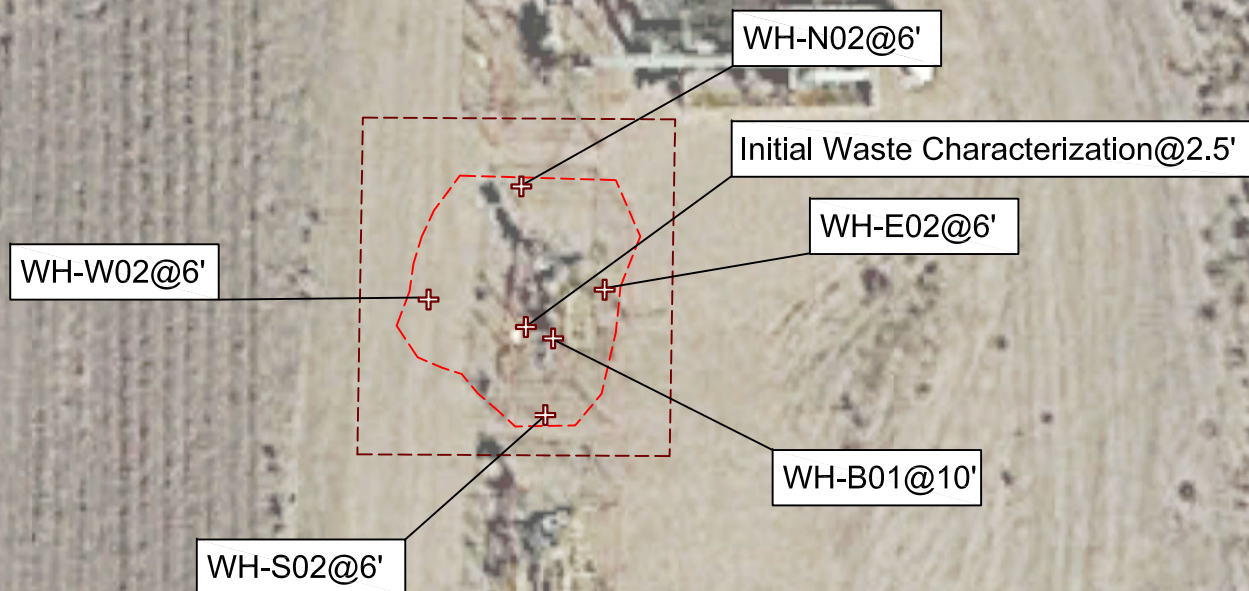
Figure 1

Site Location Map
Kerr-McGee Oil and Gas Onshore LP
Howard 9C-22
 SESE Sec. 27-T1N-R67W
 Weld County, Colorado



Source: USGS 7.5 Minute Topographic
 Map, Fort Lupton, CO Quadrangle 2022

Drawn By: AM Date: 12/20/2022



Legend

- Approximate work area
- + Approximate soil sample location
- Approximate excavation extent

Notes

All locations are approximate unless otherwise noted.

Soil and soil vapor screening locations may be adjusted based on field observations.

Additional samples may be collected if impacted soils or groundwater are encountered during closure activities.

0 ft. 15 ft. 30 ft.

N

Image Source: Google Earth 06/2021

DATE:	April 20, 2023
DESIGNED BY:	D. Coloccia
DRAWN BY:	A. McNall



EAGLE
ENVIRONMENTAL
CONSULTING, LLC

8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449

Kerr-McGee Oil and Gas Onshore LP
Howard 9C-22
SESE Sec. 27-T1N-R67W
Weld County, Colorado

Screening and Sample
Location Map

Figure
2

TABLES

TABLE 1
HOWARD 9C-22
SOIL SAMPLE FIELD DATA SUMMARY TABLE
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	Approximate Depth (feet bgs)	PID (ppm-v)	Visual Observation	Olfactory Observation	Latitude, Longitude	Submitted for Lab Analysis (Y/N)
Initial Waste Characterization @ 2.5'	12/20/2022	2.5	674.8	N.S	HC odor	40.0171314040713, -104.870477207756	Y
WH-B01 @ 6'	1/3/2023	6	202.8	slight HC staining	strong HC odor	40.0171230845001, -104.870473005216	Y
WH-N01 @ 5'	1/3/2023	5	200.7	N.S	strong HC odor	40.0171315324567, -104.870469328769	Y
WH-S01 @ 5'	1/3/2023	5	60.1	N.S	N.O	40.0171199939969, -104.870465966991	Y
WH-E01 @ 5'	1/3/2023	5	46.9	N.S	strong HC odor	40.0171248844452, -104.870461016194	Y
WH-W01 @ 5'	1/3/2023	5	60.7	slight HC staining	strong HC odor	40.0171247280013, -104.870475028463	Y
WH-B01 @ 10'	1/9/2023	6	133.1	N.S	strong HC odor	40.0171324311577, -104.870460611592	Y
WH-N02 @ 6'	1/10/2023	6	1562	N.S	strong HC odor	40.0171544844955, -104.870468605214	Y
WH-S02 @ 6'	1/10/2023	6	43.9	N.S	strong HC odor	40.0171185450788, -104.870465131717	Y
WH-E02 @ 6'	1/10/2023	6	33.0	N.S	strong HC odor	40.0171379111954, -104.870448350573	Y
WH-W02 @ 6'	1/10/2023	6	1331	N.S	strong HC odor	40.0171308974493, -104.870476594485	Y

bgs = below ground surface

PID = photoionization detector

ppm-v = parts per million by volume

BOLD = exceeds COGCC Table 915-1

N/S = No Staining

N/O = No Odor

HC = hydrocarbon

TABLE 2
HOWARD 9C-22
SOIL SAMPLE RESULTS SUMMARY TABLE - VOCs
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Naphthalene (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
COGCC standards for soil (mg/kg) ⁽¹⁾		0.0026	0.69	0.78	9.9	500			0.0038	0.0081	0.0087
COGCC standards for soil (mg/kg) ⁽²⁾		1.2	490	5.8	58	500			2	30	27
Initial Waste Characterization @ 2.5'	12/20/2022	0.322	1.95	0.538	3.58	148	<25.0	<100	0.0525	0.876	0.182
WH-B01 @ 6'	1/3/2023	0.558	2.61	NA	NA	NA	NA	NA	0.0873	0.292	0.117
WH-N01 @ 5'	1/3/2023	0.126	0.398	NA	NA	NA	NA	NA	0.0417	0.194	0.0696
WH-S01 @ 5'	1/3/2023	0.00644	0.0263	NA	NA	NA	NA	NA	<0.0101	0.0119	0.0130
WH-E01 @ 5'	1/3/2023	<0.00200	0.00482	NA	NA	NA	NA	NA	<0.00201	<0.00200	0.00868
WH-W01 @ 5'	1/3/2023	<0.00200	<0.00200	NA	NA	NA	NA	NA	<0.00201	<0.00200	0.0140
WH-B01 @ 10'	1/9/2023	0.276	0.370	NA	NA	NA	NA	NA	0.0015	0.0707	0.0216
WH-N02 @ 6'	1/10/2023	0.185	0.854	NA	NA	NA	NA	NA	0.174	1.18	0.187
WH-S02 @ 6'	1/10/2023	<0.00200	0.00598	NA	NA	NA	NA	NA	0.00281	0.00380	<0.00200
WH-E02 @ 6'	1/10/2023	0.0357	0.241	NA	NA	NA	NA	NA	0.0142	0.0786	0.0298
WH-W02 @ 6'	1/10/2023	0.251	1.45	NA	NA	NA	NA	NA	0.196	0.188	0.0833

Notes:

⁽¹⁾ COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

⁽²⁾ COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

< = Analytical result is less than the laboratory reporting limit

mg/kg = milligrams per kilogram

Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Cleanup Concentrations

NA = Not Analyzed

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-ORO = Total petroleum hydrocarbons - oil range organics

TMB = Trimethylbenzene

TABLE 3
HOWARD 9C-22
SOIL SAMPLE RESULTS SUMMARY TABLE - SOIL SUITABILITY FOR RECLAMATION
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	Depth (ft. bgs)	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
COGCC standards for soil (mg/kg)⁽¹⁾			6 - 8.3	<6	<4	2
Initial Waste Characterization @ 2.5'	12/20/2022	2.5	7.59	2.47	3.55	0.196

Notes:

⁽¹⁾ Standards for soil are taken from COGCC Table 915-1, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

ft. bgs = Feet below ground surface

mmhos/cm = Millimhos per centimeter

mg/L = Milligrams per liter

SAR = Sodium Absorption Ratio

EC = Electrical Conductivity

TABLE 4
HOWARD 9C-22
SOIL SAMPLE RESULTS SUMMARY TABLE - PAHs
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	1-Methyl-naphthalene (mg/kg)	2-Methyl-naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)-anthracene (mg/kg)	Benzo(a)-pyrene (mg/kg)	Benzo(b)-fluoranthene (mg/kg)	Benzo(k)-fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)-anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Ideno(1,2,3-cd)-pyrene (mg/kg)	Pyrene (mg/kg)
COGCC standards for soil (mg/kg) ⁽¹⁾		0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3
COGCC standards for soil (mg/kg) ⁽²⁾		18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180
Initial Waste Characterization @ 2.5'	12/20/2022	0.0872	0.187	0.00479	0.000651	<0.00067	<0.00067	0.000618	<0.00067	0.0064	<0.00067	<0.00067	0.016	<0.00067	0.00212
WH-B01 @ 6'	1/3/2023	0.172	0.275	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH-N01 @ 5'	1/3/2023	0.0696	0.147	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH-S01 @ 5'	1/3/2023	0.00614	<0.0101	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH-E01 @ 5'	1/3/2023	0.00433	0.00507	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH-W01 @ 5'	1/3/2023	0.00294	0.00407	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH-B01 @ 10'	1/9/2023	0.00426	0.00845	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH-N02 @ 6'	1/10/2023	0.481	0.396	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH-S02 @ 6'	1/10/2023	0.0158	0.0229	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH-E02 @ 6'	1/10/2023	0.0508	0.0827	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH-W02 @ 6'	1/10/2023	0.485	0.412	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

⁽¹⁾ Standards are taken from COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

⁽²⁾ Standards for soil are taken from COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

PAH = Polycyclic Aromatic Hydrocarbons

Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Cleanup Concentrations

NA = Not Analyzed

TABLE 5
HOWARD 9C-22
SOIL SAMPLE RESULTS SUMMARY TABLE - METALS
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
COGCC standards for soil (mg/kg) ⁽¹⁾		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
COGCC standards for soil (mg/kg) ⁽²⁾		0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
Initial Waste Characterization @ 2.5'	12/20/2022	3.97	1840	0.139	<0.5	15.5	11.1	11.1	0.357	<0.0956	<95.6
WH-B01 @ 6'	1/3/2023	2.98	1930	NA	NA	NA	NA	NA	0.293	NA	NA
WH-N01 @ 5'	1/3/2023	4.10	379	NA	NA	NA	NA	NA	0.169	NA	NA
WH-S01 @ 5'	1/3/2023	3.64	175	NA	NA	NA	NA	NA	0.341	NA	NA
WH-E01 @ 5'	1/3/2023	3.96	208	NA	NA	NA	NA	NA	0.297	NA	NA
WH-W01 @ 5'	1/3/2023	3.30	186	NA	NA	NA	NA	NA	0.324	NA	NA
WH-B01 @ 10'	1/9/2023	4.74	405	NA	NA	NA	NA	NA	0.226	NA	NA
WH-N02 @ 6'	1/10/2023	6.75	2160	NA	NA	NA	NA	NA	0.431	NA	NA
WH-S02 @ 6'	1/10/2023	3.10	77.1	NA	NA	NA	NA	NA	0.188	NA	NA
WH-E02 @ 6'	1/10/2023	3.53	526	NA	NA	NA	NA	NA	0.189	NA	NA
WH-W02 @ 6'	1/10/2023	3.43	88.5	NA	NA	NA	NA	NA	0.380	NA	NA

⁽¹⁾ Standards are taken from COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

⁽²⁾ Standards for soil are taken from COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

* = compound is in accordance with the COGCC Table 915-1 Footnote 9.

Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Cleanup Concentrations and background concentrations.

NA = Not Analyzed

ATTACHMENT A
LABORATORY DATA



January 04, 2023

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Howard 9C-22Hz

Project Number - [none]

Attached are your analytical results for KMG - Howard 9C-22Hz received by Origins Laboratory, Inc. December 20, 2022. This project is associated with Origins project number Y212479-01.

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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Howard 9C-22Hz

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
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Initial Waste Characterization @2.5'	Y212479-01	Soil	December 20, 2022 13:30	12/20/2022 17:26
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4212479

Client: Eagle

Client Project ID: Howard 9C-22+12

Checklist Completed by: ENS/ae

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

Date/time completed: 12/20/22

Airbill #: NA

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

Cooler Number/Temperature: 1 5.4 °C / °C / °C (Describe) °C

Thermometer ID: 7001

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

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

Dan Coloccia
Reviewed by (Project Manager)

12/20/2022
Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

tial Waste Characterization @2

12/20/2022 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y212479-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.196	0.0987	mg/L	1	B2L2106	12/21/2022	12/23/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2L2018	12/20/2022	12/21/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	72.5 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.876	0.0500	mg/kg	25	B2L2020	12/20/2022	12/21/2022
1,3,5-Trimethylbenzene	0.182	0.00200	"	1	"	"	12/20/2022
Benzene	0.322	0.0500	"	25	"	"	12/21/2022
Ethylbenzene	0.538	0.00200	"	1	"	"	12/20/2022
Toluene	1.95	0.0500	"	25	"	"	12/21/2022
Xylenes, total	3.58	0.00200	"	1	"	"	12/20/2022
Gasoline Range Hydrocarbons	148	5.00	"	25	"	"	12/21/2022

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	12/20/2022
Surrogate: Toluene-d8	119 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	93.0 %	70-130			"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

tial Waste Characterization @2

12/20/2022 1:30:00PM

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

Y212479-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	25.5	0.499	meq/L	10	[CALC]	12/21/2022	12/27/2022
Magnesium	11.7	0.823	"	"	"	"	"
Sodium	10.6	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.0872	0.00109	0.00201	mg/Kg	1	L656109	12/29/2022	12/30/2022
2-Methylnaphthalene	0.187	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.00479	0.000304	0.00067	"	"	"	"	"
Anthracene	0.000651	0.000334	0.00067	"	"	"	"	J
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.000618	0.000585	0.00067	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.0064	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.016	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	0.0525	0.00145	0.00201	"	"	"	"	"
Pyrene	0.00212	0.000643	0.00067	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	47 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	54.9 %		33-122			"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

tial Waste Characterization @2

12/20/2022 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC. Y212479-01 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	51.5 %	29-110	L6561 09	12/29/2022	12/30/2022
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pH in Soil by 9045D

pH	7.59	pH Units	1	B2L2111	12/21/2022	12/22/2022
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SAR by 20B Saturated Paste

SAR	2.47	SAR	1	B2L2103	12/21/2022	12/27/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.55	0.00500	mmhos/cm	1	B2L2111	12/21/2022	12/22/2022
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Table 915 metals by EPA 6020B

Arsenic	3.97	0.0956	mg/kg	10	B2L2101	12/21/2022	12/23/2022
Barium	1840	9.56	"	"	"	"	"
Cadmium	0.139	0.0956	"	"	"	"	"
Copper	15.5	9.56	"	"	"	"	"
Lead	11.1	9.56	"	"	"	"	"
Nickel	11.1	9.56	"	"	"	"	"
Selenium	0.357	0.0956	"	"	"	"	"
Silver	ND	0.0956	"	"	"	"	" U
Zinc	ND	95.6	"	"	"	"	" U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

tial Waste Characterization @2

12/20/2022 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212479-01 (Soil)

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L656241	12/20/2022	12/30/2022
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2L2018 - EPA 3580										
Blank (B2L2018-BLK1)					Prepared: 12/20/2022 Analyzed: 12/21/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		101	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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 B2L2018 - EPA 3580

LCS (B2L2018-BS1)

Prepared: 12/20/2022 Analyzed: 12/21/2022

Diesel (C10-C28)	1040	50.0	mg/kg	1000		104	70-130			
Residual Range Organics (C28-C40)	884	200	"	1000		88.4	70-130			
Surrogate: o-Terphenyl	47		"	49.8		94.7	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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 B2L2018 - EPA 3580

Matrix Spike (B2L2018-MS1)		Source: Y212458-01			Prepared: 12/20/2022 Analyzed: 12/21/2022					
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130			
Residual Range Organics (C28-C40)	913	200	"	1000	ND	91.3	70-130			
Surrogate: o-Terphenyl	47		"	49.8		93.5	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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 B2L2018 - EPA 3580

Matrix Spike Dup (B2L2018-MSD1)		Source: Y212458-01			Prepared: 12/20/2022 Analyzed: 12/21/2022					
Diesel (C10-C28)	1040	50.0	mg/kg	1000	ND	104	70-130	0.659	35	
Residual Range Organics (C28-C40)	918	200	"	1000	ND	91.8	70-130	0.599	35	
Surrogate: o-Terphenyl	39		"	49.8		77.6	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2L2020 - EPA 5030 (soil)										
Blank (B2L2020-BLK1)					Prepared: 12/20/2022 Analyzed: 12/20/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125	117		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	106		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	91.6		70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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 B2L2020 - EPA 5030 (soil)										
LCS (B2L2020-BS1)					Prepared: 12/20/2022 Analyzed: 12/20/2022					
1,2,4-Trimethylbenzene	0.0807	0.00200	mg/kg	0.100		80.7	70-130			
1,3,5-Trimethylbenzene	0.0815	0.00200	"	0.100		81.5	70-130			
Benzene	0.0883	0.00200	"	0.100		88.3	70-130			
Ethylbenzene	0.0925	0.00200	"	0.100		92.5	70-130			
Naphthalene	0.0915	0.00380	"	0.100		91.5	70-130			
Toluene	0.0860	0.00200	"	0.100		86.0	70-130			
o-Xylene	0.0879	0.00200	"	0.100		87.9	70-130			
m,p-Xylene	0.179	0.00400	"	0.200		89.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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 B2L2020 - EPA 5030 (soil)										
Matrix Spike (B2L2020-MS1)		Source: Y212458-01			Prepared: 12/20/2022 Analyzed: 12/20/2022					
1,2,4-Trimethylbenzene	0.0933	0.00200	mg/kg	0.100	ND	93.3	70-130			
1,3,5-Trimethylbenzene	0.0931	0.00200	"	0.100	ND	93.1	70-130			
Benzene	0.113	0.00200	"	0.100	ND	113	70-130			
Ethylbenzene	0.113	0.00200	"	0.100	ND	113	70-130			
Naphthalene	0.103	0.00380	"	0.100	ND	103	70-130			
Toluene	0.105	0.00200	"	0.100	ND	105	70-130			
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130			
m,p-Xylene	0.216	0.00400	"	0.200	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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 B2L2020 - EPA 5030 (soil)										
Matrix Spike Dup (B2L2020-MSD1)		Source: Y212458-01			Prepared: 12/20/2022 Analyzed: 12/20/2022					
1,2,4-Trimethylbenzene	0.0528	0.00200	mg/kg	0.100	ND	52.8	70-130	55.5	20	QM-07
1,3,5-Trimethylbenzene	0.0521	0.00200	"	0.100	ND	52.1	70-130	56.5	20	QM-07
Benzene	0.0843	0.00200	"	0.100	ND	84.3	70-130	28.7	20	QR-02
Ethylbenzene	0.0718	0.00200	"	0.100	ND	71.8	70-130	44.2	20	QR-02
Naphthalene	0.0551	0.00380	"	0.100	ND	55.1	70-130	60.2	20	QM-07
Toluene	0.0745	0.00200	"	0.100	ND	74.5	70-130	33.6	20	QR-02
o-Xylene	0.0675	0.00200	"	0.100	ND	67.5	70-130	43.7	20	QM-07
m,p-Xylene	0.138	0.00400	"	0.200	ND	69.0	70-130	44.1	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		119	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2L2101 - EPA 3050B

Blank (B2L2101-BLK1)

Prepared: 12/21/2022 Analyzed: 12/23/2022

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

LCS (B2L2101-BS1)

Prepared: 12/21/2022 Analyzed: 12/23/2022

Arsenic	0.0473	0.000100	mg/kg	0.0500		94.6	80-120
Barium	4.73	0.0100	"	5.00		94.5	80-120
Cadmium	0.0504	0.000100	"	0.0500		101	80-120
Copper	0.512	0.0100	"	0.500		102	80-120
Lead	0.0499	0.0100	"	0.0500		99.9	80-120
Nickel	0.0484	0.0100	"	0.0500		96.8	80-120
Selenium	0.0455	0.000100	"	0.0500		91.0	80-120
Silver	0.0526	0.000100	"	0.0500		105	80-120
Zinc	0.493	0.100	"	0.500		98.7	80-120

Matrix Spike (B2L2101-MS1)

Source: Y212436-02

Prepared: 12/21/2022 Analyzed: 12/23/2022

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2L2101 - EPA 3050B										
Matrix Spike (B2L2101-MS1)		Source: Y212436-02			Prepared: 12/21/2022 Analyzed: 12/23/2022					
Arsenic	6.34	0.0954	mg/kg	4.77	2.06	89.7	75-125			
Barium	501	9.54	"	477	66.0	91.1	75-125			
Cadmium	4.88	0.0954	"	4.77	0.275	96.4	75-125			
Copper	55.7	9.54	"	47.7	10.7	94.3	75-125			
Lead	24.9	9.54	"	4.77	16.4	179	75-125			QM-07
Nickel	10.5	9.54	"	4.77	5.32	109	75-125			
Selenium	4.04	0.0954	"	4.77	0.148	81.6	75-125			
Silver	4.75	0.0954	"	4.77	0.0384	98.7	75-125			
Zinc	94.2	95.4	"	47.7	37.4	119	75-125			U
Matrix Spike Dup (B2L2101-MSD1)		Source: Y212436-02			Prepared: 12/21/2022 Analyzed: 12/23/2022					
Arsenic	6.88	0.0948	mg/kg	4.74	2.06	102	75-125	8.20	20	
Barium	539	9.48	"	474	66.0	99.7	75-125	7.32	20	
Cadmium	5.27	0.0948	"	4.74	0.275	105	75-125	7.70	20	
Copper	64.5	9.48	"	47.4	10.7	113	75-125	14.6	20	
Lead	24.0	9.48	"	4.74	16.4	159	75-125	4.03	20	QM-07
Nickel	11.0	9.48	"	4.74	5.32	120	75-125	4.45	20	
Selenium	4.58	0.0948	"	4.74	0.148	93.5	75-125	12.6	20	
Silver	5.00	0.0948	"	4.74	0.0384	105	75-125	5.13	20	
Zinc	98.1	94.8	"	47.4	37.4	128	75-125	4.06	20	QM-07

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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 B2L2103 - Saturated Paste Metals

Blank (B2L2103-BLK1)

Prepared: 12/21/2022 Analyzed: 12/27/2022

Calcium PPM	ND	10.0	mg/L							U
SAR	0.00		SAR							U
Magnesium PPM	ND	10.0	mg/L							U
Sodium PPM	ND	10.0	"							U

Duplicate (B2L2103-DUP1)

Source: Y212458-01

Prepared: 12/21/2022 Analyzed: 12/27/2022

Calcium PPM	78.3	10.0	mg/L		77.8			0.681	50	
SAR	0.00		SAR		0.900			200	200	U
Magnesium PPM	8.99	10.0	mg/L		9.04			0.499	50	U
Sodium PPM	31.7	10.0	"		31.5			0.832	50	

Batch B2L2106 - DTPA Sorbitol Preparation

Blank (B2L2106-BLK1)

Prepared: 12/21/2022 Analyzed: 12/23/2022

Boron	ND	0.100	mg/L							U
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Duplicate (B2L2106-DUP1)

Source: Y212458-01

Prepared: 12/21/2022 Analyzed: 12/23/2022

Boron	0.398	0.0987	mg/L		0.362			9.46	50	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2L2111 - Saturated Paste pH/EC										
Blank (B2L2111-BLK1)					Prepared: 12/21/2022 Analyzed: 12/22/2022					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B2L2111-DUP1)					Source: Y212458-01 Prepared: 12/21/2022 Analyzed: 12/22/2022					
Specific Conductance (EC)	0.760	0.00500	mmhos/cm		0.764			0.485	25	
pH	9.31		pH Units		8.34			11.0	25	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L656109 - 3550B

MSD (L 87271-MSD-L656109)		Source: 87271			Prepared: 12/29/2022 Analyzed: 12/30/2022					
Chrysene	0.118	0.00067	mg/Kg	0.166	<0.000624	71	30-130	0	30	
Anthracene	0.104	0.00067	"	0.166	<0.000334	62.6	30-130	5.4	30	
Pyrene	0.112	0.00067	"	0.166	<0.000643	67.4	30-130	1.8	30	
Naphthalene	0.0942	0.00201	"	0.166	<0.00145	56.7	30-130	3.3	30	
Indeno(1,2,3-cd)pyrene	0.104	0.00067	"	0.166	<0.000627	62.6	30-130	1.9	30	
Fluorene	0.105	0.00067	"	0.166	<0.000286	63.2	30-130	5.5	30	
Fluoranthene	0.117	0.00067	"	0.166	0.000777	70	30-130	1.7	30	
Dibenz(a,h)anthracene	0.107	0.00067	"	0.166	<0.000614	64.4	30-130	3.6	30	
2-Methylnaphthalene	0.107	0.00201	"	0.166	<0.00194	64.4	30-130	5.7	30	
1-Methylnaphthalene	0.0944	0.00201	"	0.166	<0.00109	56.8	30-130	5.5	30	
Benzo(a)pyrene	0.115	0.00067	"	0.166	<0.000468	69.2	30-130	2.6	30	
Benzo(k)fluoranthene	0.102	0.00067	"	0.166	<0.000437	61.4	30-130	7.5	30	
Acenaphthene	0.1	0.00067	"	0.166	<0.000304	60.2	30-130	6.3	30	
Benzo(a)anthracene	0.107	0.00067	"	0.166	<0.000493	64.4	30-130	0.9	30	
Benzo(b)fluoranthene	0.0973	0.00067	"	0.166	0.00099	58	30-130	3.7	30	
Surrogate: Nitrobenzene-d5	59.2		"	0.331	198	59.2	29-110			
Surrogate: 2-Fluorobiphenyl	53.1		"	0.331	189	53.1	33-115			
Surrogate: 4-Terphenyl-d14	62.2		"	0.331	226	62.2	33-122			

MS (L 87271-MS-L656109)		Source: 87271			Prepared: 12/29/2022 Analyzed: 12/30/2022					
Fluoranthene	0.115	0.00067	mg/Kg	0.167	0.000777	68.3	30-130			
Benzo(k)fluoranthene	0.11	0.00067	"	0.167	<0.000437	65.8	30-130			
Naphthalene	0.0911	0.00201	"	0.167	<0.00145	54.5	30-130			
Fluorene	0.0993	0.00067	"	0.167	<0.000286	59.4	30-130			
Dibenz(a,h)anthracene	0.111	0.00067	"	0.167	<0.000614	66.4	30-130			
Chrysene	0.118	0.00067	"	0.167	<0.000624	70.6	30-130			
Pyrene	0.11	0.00067	"	0.167	<0.000643	65.8	30-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L656109 - 3550B

MS (L 87271-MS-L656109)		Source: 87271			Prepared: 12/29/2022 Analyzed: 12/30/2022					
1-Methylnaphthalene	0.0893	0.00201	mg/Kg	0.167	<0.00109	53.4	30-130			
Benzo(a)pyrene	0.112	0.00067	"	0.167	<0.000468	67	30-130			
Benzo(a)anthracene	0.106	0.00067	"	0.167	<0.000493	63.4	30-130			
Anthracene	0.0985	0.00067	"	0.167	<0.000334	58.9	30-130			
Acenaphthene	0.0938	0.00067	"	0.167	<0.000304	56.1	30-130			
2-Methylnaphthalene	0.101	0.00201	"	0.167	<0.00194	60.4	30-130			
Benzo(b)fluoranthene	0.0937	0.00067	"	0.167	0.00099	55.5	30-130			
Indeno(1,2,3-cd)pyrene	0.106	0.00067	"	0.167	<0.000627	63.4	30-130			
Surrogate: Nitrobenzene-d5	55.5		"	0.333	198	55.5	29-110			
Surrogate: 4-Terphenyl-d14	60.9		"	0.333	226	60.9	33-122			
Surrogate: 2-Fluorobiphenyl	49.2		"	0.333	189	49.2	33-115			

LCS (LCS-L656109)

Prepared: 12/29/2022 Analyzed: 12/30/2022

Benzo(b)fluoranthene	0.106	0.00067	mg/Kg	0.167		63.4	30-130
Benzo(k)fluoranthene	0.113	0.00067	"	0.167		67.6	30-130
Dibenz(a,h)anthracene	0.122	0.00067	"	0.167		73	30-130
Fluorene	0.112	0.00067	"	0.167		67	30-130
Indeno(1,2,3-cd)pyrene	0.117	0.00067	"	0.167		70	30-130
Benzo(a)pyrene	0.123	0.00067	"	0.167		73.6	30-130
Chrysene	0.129	0.00067	"	0.167		77.2	30-130
Pyrene	0.123	0.00067	"	0.167		73.6	30-130
Naphthalene	0.104	0.00201	"	0.167		62.2	30-130
Anthracene	0.111	0.00067	"	0.167		66.4	30-130
Acenaphthene	0.107	0.00067	"	0.167		64	30-130
2-Methylnaphthalene	0.117	0.00201	"	0.167		70	30-130
1-Methylnaphthalene	0.103	0.00201	"	0.167		61.6	30-130
Fluoranthene	0.127	0.00067	"	0.167		76	30-130

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L656109 - 3550B

LCS (LCS-L656109)

Prepared: 12/29/2022 Analyzed: 12/30/2022

Benzo(a)anthracene	0.118	0.00067	mg/Kg	0.167		70.6	30-130			
Surrogate: Nitrobenzene-d5	64.8		"	0.333		64.8	29-110			
Surrogate: 4-Terphenyl-d14	69.6		"	0.333		69.6	33-122			
Surrogate: 2-Fluorobiphenyl	60.6		"	0.333		60.6	33-115			

LRB (LRB-L656109)

Prepared: 12/29/2022 Analyzed: 12/30/2022

Naphthalene	ND	0.00201	mg/Kg				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	59.7		"	0.333		59.7	33-115			
Surrogate: Nitrobenzene-d5	57.6		"	0.333		57.6	29-110			
Surrogate: 4-Terphenyl-d14	70.8		"	0.333		70.8	33-122			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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 L656241 -										
DUP (L 87314-DUP)		Source: 87314			Prepared: Analyzed: 12/30/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 87314-MS)		Source: 87314			Prepared: Analyzed: 12/30/2022					
Chromium, Hexavalent	30.2	2.5	mg/Kg	40	< 0.244	76	75-125			
MSD (L 87314-MSD)		Source: 87314			Prepared: Analyzed: 12/30/2022					
Chromium, Hexavalent	679	51.4	mg/Kg	755	<25.1	90	75-125			
LCS (LCS)					Prepared: Analyzed: 12/30/2022					
Chromium, Hexavalent	7.06	0.5	mg/Kg	8		88	75-125			
LRB (LRB)					Prepared: Analyzed: 12/30/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg							

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Howard 9C-22Hz

Notes and Definitions

U Sample is Non-Detect.

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

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

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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



January 17, 2023

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Howard 9C-22Hz

Project Number - [none]

Attached are your analytical results for KMG - Howard 9C-22Hz received by Origins Laboratory, Inc. January 03, 2023. This project is associated with Origins project number Y301002-01.

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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Howard 9C-22Hz

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH - B01@6'	Y301002-01	Soil	January 3, 2023 11:00	01/03/2023 14:00
WH - N01@5'	Y301002-02	Soil	January 3, 2023 11:05	01/03/2023 14:00
WH - S01@5'	Y301002-03	Soil	January 3, 2023 11:10	01/03/2023 14:00
WH - E01@5'	Y301002-04	Soil	January 3, 2023 11:15	01/03/2023 14:00
WH - W01@5'	Y301002-05	Soil	January 3, 2023 11:20	01/03/2023 14:00

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y301002

Client: Eagle

Client Project ID: Howard 9C-22

Checklist Completed by: DE

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

Date/time completed: 01/03/23

Airbill #: NA

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

Cooler Number/Temperature: 1 / 24 °C 1 °C 1 °C (Describe) °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<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 1/3/23

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.

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

WH - B01@6'
1/3/2023 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301002-01 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.292		0.00200	mg/kg	1	B3A0319	01/03/2023	01/03/2023	
1,3,5-Trimethylbenzene	0.117		0.00200	"	"	"	"	"	
Benzene	0.558		0.0500	"	25	"	"	01/04/2023	
Toluene	2.61		0.0500	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	01/03/2023	
Surrogate: Toluene-d8	85.1 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.172	0.00109	0.00201	mg/Kg	1	L657176	01/06/2023	01/06/2023	
2-Methylnaphthalene	0.275	0.00194	0.00201	"	"	"	"	"	
Naphthalene	0.0873	0.00145	0.00201	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	49.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	41.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	62.2 %		29-110			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	2.98		0.0897	mg/kg	10	B3A0501	01/05/2023	01/05/2023	
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Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

WH - B01@6'

1/3/2023 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301002-01 (Soil)

Table 915 metals by EPA 6020B

Barium	1930	8.97	mg/kg	10	B3A0501	01/05/2023	01/05/2023
Selenium	0.293	0.0897	"	"	"	"	"

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

WH - N01@5'
1/3/2023 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301002-02 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.194		0.00200	mg/kg	1	B3A0319	01/03/2023	01/04/2023	
1,3,5-Trimethylbenzene	0.0696		0.00200	"	"	"	"	"	
Benzene	0.126		0.00200	"	"	"	"	"	
Toluene	0.398		0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.6 %		70-130			"	"	"	
Surrogate: Toluene-d8	86.0 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	86.9 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0696	0.00549	0.0101	mg/Kg	5	L657176	01/06/2023	01/06/2023	
2-Methylnaphthalene	0.147	0.00972	0.0101	"	"	"	"	"	
Naphthalene	0.0417	0.0073	0.0101	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	46 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	53.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52.8 %		29-110			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	4.10		0.0940	mg/kg	10	B3A0501	01/05/2023	01/05/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

WH - N01@5'

1/3/2023 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301002-02 (Soil)

Table 915 metals by EPA 6020B

Barium	379		9.40	mg/kg	10	B3A0501	01/05/2023	01/05/2023	
Selenium	0.169		0.0940	"	"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

WH - S01@5'
1/3/2023 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301002-03 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0119		0.00200	mg/kg	1	B3A0319	01/03/2023	01/04/2023	
1,3,5-Trimethylbenzene	0.0130		0.00200	"	"	"	"	"	
Benzene	0.00644		0.00200	"	"	"	"	"	
Toluene	0.0263		0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	93.6 %		70-130			"	"	"	
Surrogate: Toluene-d8	88.1 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	83.1 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00614	0.00549	0.0101	mg/Kg	5	L657176	01/06/2023	01/06/2023	J
2-Methylnaphthalene	ND	0.00972	0.0101	"	"	"	"	"	
Naphthalene	ND	0.0073	0.0101	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	56 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	64.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	59.4 %		29-110			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	3.64		0.0865	mg/kg	10	B3A0501	01/05/2023	01/05/2023	
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Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

WH - S01@5'

1/3/2023 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301002-03 (Soil)

Table 915 metals by EPA 6020B

Barium	175	8.65	mg/kg	10	B3A0501	01/05/2023	01/05/2023
Selenium	0.341	0.0865	"	"	"	"	"

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

WH - E01@5'
1/3/2023 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301002-04 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3A0319	01/03/2023	01/04/2023	U
1,3,5-Trimethylbenzene	0.00868		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Toluene	0.00482		0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	94.4 %		70-130			"	"	"	
Surrogate: Toluene-d8	88.0 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	84.5 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00433	0.00109	0.00201	mg/Kg	1	L657176	01/06/2023	01/06/2023	
2-Methylnaphthalene	0.00507	0.00194	0.00201	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	48.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	58.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	55.7 %		29-110			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	3.96		0.0849	mg/kg	10	B3A0501	01/05/2023	01/05/2023	
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Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

WH - E01@5'

1/3/2023 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301002-04 (Soil)

Table 915 metals by EPA 6020B

Barium	208		8.49	mg/kg	10	B3A0501	01/05/2023	01/05/2023	
Selenium	0.297		0.0849	"	"	"	"	"	

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

WH - W01@5'
1/3/2023 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301002-05 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3A0319	01/03/2023	01/04/2023	U
1,3,5-Trimethylbenzene	0.0140		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			"	"	"	
Surrogate: Toluene-d8	86.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	84.3 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00294	0.00109	0.00201	mg/Kg	1	L657176	01/06/2023	01/06/2023	
2-Methylnaphthalene	0.00407	0.00194	0.00201	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	48.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	57.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	56.2 %		29-110			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	3.30		0.0883	mg/kg	10	B3A0501	01/05/2023	01/05/2023	
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Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

WH - W01@5'

1/3/2023 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301002-05 (Soil)

Table 915 metals by EPA 6020B

Barium	186		8.83	mg/kg	10	B3A0501	01/05/2023	01/05/2023	
Selenium	0.324		0.0883	"	"	"	"	"	

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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 B3A0319 - EPA 5030 (soil)										
Blank (B3A0319-BLK1)					Prepared: 01/03/2023 Analyzed: 01/03/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.5	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		89.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		84.5	70-130			

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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 B3A0319 - EPA 5030 (soil)

LCS (B3A0319-BS1)

Prepared: 01/03/2023 Analyzed: 01/03/2023

1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100		104	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Benzene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.0998	0.00200	"	0.100		99.8	70-130			
Naphthalene	0.116	0.00380	"	0.100		116	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.0941	0.00200	"	0.100		94.1	70-130			
m,p-Xylene	0.189	0.00400	"	0.200		94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.8	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		89.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		85.2	70-130			

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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 B3A0319 - EPA 5030 (soil)										
Matrix Spike (B3A0319-MS1)		Source: Y212591-01			Prepared: 01/03/2023 Analyzed: 01/04/2023					
1,2,4-Trimethylbenzene	0.0534	0.00200	mg/kg	0.0500	0.00194	103	70-130			
1,3,5-Trimethylbenzene	0.0514	0.00200	"	0.0500	ND	103	70-130			
Benzene	0.0672	0.00200	"	0.0500	ND	134	70-130			QM-07
Ethylbenzene	0.0607	0.00200	"	0.0500	0.000520	120	70-130			
Naphthalene	0.0647	0.00380	"	0.0500	0.00186	126	70-130			
Toluene	0.0650	0.00200	"	0.0500	0.00142	127	70-130			
o-Xylene	0.0591	0.00200	"	0.0500	0.000900	116	70-130			
m,p-Xylene	0.120	0.00400	"	0.100	0.00288	117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	70-130			

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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 B3A0319 - EPA 5030 (soil)										
Matrix Spike Dup (B3A0319-MSD1)			Source: Y212591-01		Prepared: 01/03/2023 Analyzed: 01/04/2023					
1,2,4-Trimethylbenzene	0.0785	0.00200	mg/kg	0.100	0.00194	76.6	70-130	38.0	20	QR-02
1,3,5-Trimethylbenzene	0.0802	0.00200	"	0.100	ND	80.2	70-130	43.8	20	QR-02
Benzene	0.0818	0.00200	"	0.100	ND	81.8	70-130	19.7	20	
Ethylbenzene	0.0884	0.00200	"	0.100	0.000520	87.9	70-130	37.2	20	QR-02
Naphthalene	0.0904	0.00380	"	0.100	0.00186	88.6	70-130	33.1	20	QR-02
Toluene	0.0811	0.00200	"	0.100	0.00142	79.7	70-130	22.1	20	QR-02
o-Xylene	0.0796	0.00200	"	0.100	0.000900	78.7	70-130	29.6	20	QR-02
m,p-Xylene	0.162	0.00400	"	0.200	0.00288	79.7	70-130	30.0	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3A0501 - EPA 3050B

Blank (B3A0501-BLK1)

Prepared: 01/05/2023 Analyzed: 01/05/2023

Arsenic	ND	0.000100	mg/kg
Barium	ND	0.0100	"
Selenium	ND	0.000100	"

LCS (B3A0501-BS1)

Prepared: 01/05/2023 Analyzed: 01/05/2023

Arsenic	0.0476	0.000100	mg/kg	0.0500		95.2	80-120
Barium	4.93	0.0100	"	5.00		98.7	80-120
Selenium	0.0487	0.000100	"	0.0500		97.5	80-120

Matrix Spike (B3A0501-MS1)

Source: Y301002-01

Prepared: 01/05/2023 Analyzed: 01/05/2023

Arsenic	7.07	0.0908	mg/kg	4.54	2.98	90.2	75-125
Barium	2290	9.08	"	454	1930	78.3	75-125
Selenium	4.36	0.0908	"	4.54	0.293	89.7	75-125

Matrix Spike Dup (B3A0501-MSD1)

Source: Y301002-01

Prepared: 01/05/2023 Analyzed: 01/05/2023

Arsenic	7.01	0.0973	mg/kg	4.87	2.98	82.9	75-125	0.800	20	QM-07, QR-DUP
Barium	1860	9.73	"	487	1930	NR	75-125	20.3	20	
Selenium	4.74	0.0973	"	4.87	0.293	91.4	75-125	8.27	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.

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L657176 - 3550B

MSD (L 89465-MSD-L657176)		Source: 89465			Prepared: 01/06/2023 Analyzed: 01/06/2023					
Naphthalene	0.0956	0.00201	mg/Kg	0.162	<0.00145	59	30-130	0.9	30	
2-Methylnaphthalene	0.106	0.00201	"	0.162	<0.00194	65.4	30-130	3.7	30	
1-Methylnaphthalene	0.0946	0.00201	"	0.162	<0.00109	58.3	30-130	2.1	30	
Surrogate: Nitrobenzene-d5	58.1		"	0.325	184	58.1	29-110			
Surrogate: 2-Fluorobiphenyl	54.4		"	0.325	173	54.4	33-115			
Surrogate: 4-Terphenyl-d14	63.6		"	0.325	201	63.6	33-122			

MS (L 89465-MS-L657176)		Source: 89465			Prepared: 01/06/2023 Analyzed: 01/06/2023					
2-Methylnaphthalene	0.11	0.00201	mg/Kg	0.167	<0.00194	65.8	30-130			
Naphthalene	0.0965	0.00201	"	0.167	<0.00145	57.7	30-130			
1-Methylnaphthalene	0.0967	0.00201	"	0.167	<0.00109	57.9	30-130			
Surrogate: 2-Fluorobiphenyl	48.6		"	0.333	173	48.6	33-115			
Surrogate: 4-Terphenyl-d14	59.4		"	0.333	201	59.4	33-122			
Surrogate: Nitrobenzene-d5	53.1		"	0.333	184	53.1	29-110			

LCS (LCS-L657176)		Prepared: 01/06/2023 Analyzed: 01/06/2023								
2-Methylnaphthalene	0.118	0.00201	mg/Kg	0.167		70.6	30-130			
1-Methylnaphthalene	0.102	0.00201	"	0.167		61	30-130			
Naphthalene	0.107	0.00201	"	0.167		64	30-130			
Surrogate: Nitrobenzene-d5	57.6		"	0.333		57.6	29-110			
Surrogate: 4-Terphenyl-d14	68.1		"	0.333		68.1	33-122			
Surrogate: 2-Fluorobiphenyl	57.6		"	0.333		57.6	33-115			

LRB (LRB-L657176)		Prepared: 01/06/2023 Analyzed: 01/06/2023								
1-Methylnaphthalene	ND	0.00201	mg/Kg			-				
2-Methylnaphthalene	ND	0.00201	"			-				
Naphthalene	ND	0.00201	"			-				
Surrogate: 2-Fluorobiphenyl	55.5		"	0.333		55.5	33-115			

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L657176 - 3550B

LRB (LRB-L657176)

Prepared: 01/06/2023 Analyzed: 01/06/2023

Surrogate: 4-Terphenyl-d14	66.9		mg/Kg	0.333		66.9	33-122			
Surrogate: Nitrobenzene-d5	55.8		"	0.333		55.8	29-110			

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Howard 9C-22Hz

Notes and Definitions

U Sample is Non-Detect.

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

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

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

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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



January 16, 2023

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Howard 9C-22Hz

Project Number - [none]

Attached are your analytical results for KMG - Howard 9C-22Hz received by Origins Laboratory, Inc. January 09, 2023. This project is associated with Origins project number Y301123-01.

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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Howard 9C-22Hz

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@10'	Y301123-01	Soil	January 9, 2023 10:30	01/09/2023 16:15

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4301123

Client: Eagle

Client Project ID: Howard 9C-22

Checklist Completed by: EHS/DE

Shipped Via: HD

Date/time completed: 11/9/23

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

Airbill #: _____

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

Cooler Number/Temperature: 1 4.6 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 7004

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

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

DE
Reviewed by (Project Manager)

01/09/2023
Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

WH-B01@10'

1/9/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301123-01 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0707		0.00200	mg/kg	1	B3A0923	01/09/2023	01/09/2023	
1,3,5-Trimethylbenzene	0.0216		0.00200	"	"	"	"	"	
Benzene	0.276		0.00200	"	"	"	"	"	
Toluene	0.370		0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.1 %		70-130			"	"	"	
Surrogate: Toluene-d8	86.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	83.9 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00426	0.00109	0.00201	mg/Kg	1	L658117	01/12/2023	01/12/2023	
2-Methylnaphthalene	0.00845	0.00194	0.00201	"	"	"	"	"	
Naphthalene	0.0015	0.00145	0.00201	"	"	"	"	"	J

Surrogate: 2-Fluorobiphenyl	39.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	51.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	48.5 %		29-110			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	4.74		0.0902	mg/kg	10	B3A0925	01/09/2023	01/09/2023	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

WH-B01@10'

1/9/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301123-01 (Soil)

Table 915 metals by EPA 6020B

Barium	405	9.02	mg/kg	10	B3A0925	01/09/2023	01/09/2023
Selenium	0.226	0.0902	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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 B3A0923 - EPA 5030 (soil)

Blank (B3A0923-BLK1)

Prepared: 01/09/2023 Analyzed: 01/09/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		88.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		85.1	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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 B3A0923 - EPA 5030 (soil)										
LCS (B3A0923-BS1)					Prepared: 01/09/2023 Analyzed: 01/09/2023					
1,2,4-Trimethylbenzene	0.0936	0.00200	mg/kg	0.100		93.6	70-130			
1,3,5-Trimethylbenzene	0.0942	0.00200	"	0.100		94.2	70-130			
Benzene	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.0910	0.00200	"	0.100		91.0	70-130			
Naphthalene	0.111	0.00380	"	0.100		111	70-130			
Toluene	0.0972	0.00200	"	0.100		97.2	70-130			
o-Xylene	0.0855	0.00200	"	0.100		85.5	70-130			
m,p-Xylene	0.171	0.00400	"	0.200		85.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		87.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		84.1	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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 B3A0923 - EPA 5030 (soil)

Matrix Spike (B3A0923-MS1)		Source: Y301098-01			Prepared: 01/09/2023 Analyzed: 01/09/2023					
1,2,4-Trimethylbenzene	0.0968	0.00200	mg/kg	0.100	ND	96.8	70-130			
1,3,5-Trimethylbenzene	0.0969	0.00200	"	0.100	ND	96.9	70-130			
Benzene	0.102	0.00200	"	0.100	ND	102	70-130			
Ethylbenzene	0.0937	0.00200	"	0.100	ND	93.7	70-130			
Naphthalene	0.108	0.00380	"	0.100	0.00330	104	70-130			
Toluene	0.0976	0.00200	"	0.100	ND	97.6	70-130			
o-Xylene	0.0885	0.00200	"	0.100	ND	88.5	70-130			
m,p-Xylene	0.178	0.00400	"	0.200	0.00198	88.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.3	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		89.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		85.0	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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 B3A0923 - EPA 5030 (soil)										
Matrix Spike Dup (B3A0923-MSD1)		Source: Y301098-01			Prepared: 01/09/2023 Analyzed: 01/09/2023					
1,2,4-Trimethylbenzene	0.0939	0.00200	mg/kg	0.100	ND	93.9	70-130	2.98	20	
1,3,5-Trimethylbenzene	0.0937	0.00200	"	0.100	ND	93.7	70-130	3.34	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	0.573	20	
Ethylbenzene	0.0914	0.00200	"	0.100	ND	91.4	70-130	2.48	20	
Naphthalene	0.112	0.00380	"	0.100	0.00330	109	70-130	4.25	20	
Toluene	0.0954	0.00200	"	0.100	ND	95.4	70-130	2.28	20	
o-Xylene	0.0873	0.00200	"	0.100	ND	87.3	70-130	1.43	20	
m,p-Xylene	0.173	0.00400	"	0.200	0.00198	85.5	70-130	2.85	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		88.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		84.3	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3A0925 - EPA 3050B

Blank (B3A0925-BLK1)

Prepared: 01/09/2023 Analyzed: 01/09/2023

Arsenic	ND	0.000100	mg/kg							U
Barium	ND	0.0100	"							U
Selenium	ND	0.000100	"							U

LCS (B3A0925-BS1)

Prepared: 01/09/2023 Analyzed: 01/09/2023

Arsenic	0.0537	0.000100	mg/kg	0.0500		107	80-120			
Barium	5.11	0.0100	"	5.00		102	80-120			
Selenium	0.0490	0.000100	"	0.0500		98.1	80-120			

Matrix Spike (B3A0925-MS1)

Source: Y301123-01

Prepared: 01/09/2023 Analyzed: 01/09/2023

Arsenic	8.28	0.0977	mg/kg	4.88	4.74	72.4	75-125			QM-07
Barium	1830	9.77	"	488	405	292	75-125			QM-07
Selenium	4.14	0.0977	"	4.88	0.226	80.1	75-125			

Matrix Spike Dup (B3A0925-MSD1)

Source: Y301123-01

Prepared: 01/09/2023 Analyzed: 01/09/2023

Arsenic	6.76	0.0865	mg/kg	4.32	4.74	46.7	75-125	20.2	20	QM-07, QR-DUP
Barium	765	8.65	"	432	405	83.3	75-125	82.2	20	QR-DUP
Selenium	3.83	0.0865	"	4.32	0.226	83.4	75-125	7.78	20	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L658117 - 3550B

MSD (L 91883-MSD-L658117)		Source: 91883			Prepared: 01/12/2023 Analyzed: 01/12/2023					
Naphthalene	0.0871	0.00201	mg/Kg	0.162	<0.00145	53.7	30-130	3.1	30	
2-Methylnaphthalene	0.0921	0.00201	"	0.162	<0.00194	56.8	30-130	3.3	30	
1-Methylnaphthalene	0.0908	0.00201	"	0.162	<0.00109	56	30-130	3.3	30	
Surrogate: Nitrobenzene-d5	50.1		"	0.325	143	50.1	29-110			
Surrogate: 2-Fluorobiphenyl	42.4		"	0.325	117	42.4	33-115			
Surrogate: 4-Terphenyl-d14	53.2		"	0.325	163	53.2	33-122			

MS (L 91883-MS-L658117)		Source: 91883			Prepared: 01/12/2023 Analyzed: 01/12/2023					
2-Methylnaphthalene	0.0891	0.00201	mg/Kg	0.164	<0.00194	54.3	30-130			
Naphthalene	0.0844	0.00201	"	0.164	<0.00145	51.4	30-130			
1-Methylnaphthalene	0.0878	0.00201	"	0.164	<0.00109	53.5	30-130			
Surrogate: 2-Fluorobiphenyl	42.5		"	0.329	117	42.5	33-115			
Surrogate: 4-Terphenyl-d14	55		"	0.329	163	55	33-122			
Surrogate: Nitrobenzene-d5	51.3		"	0.329	143	51.3	29-110			

LCS (LCS-L658117)		Prepared: 01/12/2023 Analyzed: 01/12/2023								
2-Methylnaphthalene	0.102	0.00201	mg/Kg	0.167		61	30-130			
1-Methylnaphthalene	0.0998	0.00201	"	0.167		59.7	30-130			
Naphthalene	0.0971	0.00201	"	0.167		58.1	30-130			
Surrogate: Nitrobenzene-d5	57.3		"	0.333		57.3	29-110			
Surrogate: 4-Terphenyl-d14	57		"	0.333		57	33-122			
Surrogate: 2-Fluorobiphenyl	51.9		"	0.333		51.9	33-115			

LRB (LRB-L658117)		Prepared: 01/12/2023 Analyzed: 01/12/2023								
1-Methylnaphthalene	ND	0.00201	mg/Kg			-				
2-Methylnaphthalene	ND	0.00201	"			-				
Naphthalene	ND	0.00201	"			-				
Surrogate: 2-Fluorobiphenyl	49.5		"	0.333		49.5	33-115			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22Hz

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L658117 - 3550B

LRB (LRB-L658117)

Prepared: 01/12/2023 Analyzed: 01/12/2023

Surrogate: 4-Terphenyl-d14	52.8		mg/Kg	0.333		52.8	33-122			
Surrogate: Nitrobenzene-d5	52.5		"	0.333		52.5	29-110			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Howard 9C-22Hz

Notes and Definitions

U Sample is Non-Detect.

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

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

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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



January 17, 2023

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Howard 9C-22

Project Number - [none]

Attached are your analytical results for KMG - Howard 9C-22 received by Origins Laboratory, Inc. January 10, 2023. This project is associated with Origins project number Y301141-01.

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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH - N02@6'	Y301141-01	Soil	January 10, 2023 12:15	01/10/2023 16:40
WH - S02@6'	Y301141-02	Soil	January 10, 2023 12:17	01/10/2023 16:40
WH - E02@6'	Y301141-03	Soil	January 10, 2023 12:19	01/10/2023 16:40
WH - W02@6'	Y301141-04	Soil	January 10, 2023 12:21	01/10/2023 16:40

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4301141

Client: Eagle

Client Project ID: Howard 9C-22

Checklist Completed by: EHS/DE

Shipped Via: HD

Date/time completed: 11/01/23

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

Airbill #: NA

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

Cooler Number/Temperature: 113.1 °C °C °C (Describe) °C

Thermometer ID: TD04

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

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

Reviewed by (Project Manager) DE

01/01/23
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22

WH - N02@6'

1/10/2023 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301141-01 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	1.18		0.0500	mg/kg	25	B3A1021	01/10/2023	01/11/2023	
1,3,5-Trimethylbenzene	0.187		0.00200	"	1	"	"	01/10/2023	
Benzene	0.185		0.00200	"	"	"	"	"	
Toluene	0.854		0.0500	"	25	"	"	01/11/2023	

Surrogate: 1,2-Dichloroethane-d4	94.3 %		70-130			"	"	01/10/2023	
Surrogate: Toluene-d8	130 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	112 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.481	0.00109	0.00201	mg/Kg	1	L658348	01/13/2023	01/13/2023	
2-Methylnaphthalene	0.396	0.00194	0.00201	"	"	"	"	"	
Naphthalene	0.174	0.00145	0.00201	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	47.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	47.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	60.9 %		29-110			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	6.75		0.0965	mg/kg	10	B3A1023	01/10/2023	01/11/2023	
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Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22

WH - N02@6'

1/10/2023 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301141-01 (Soil)

Table 915 metals by EPA 6020B

Barium	2160	9.65	mg/kg	10	B3A1023	01/10/2023	01/11/2023
Selenium	0.431	0.0965	"	"	"	"	"

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22

WH - S02@6'

1/10/2023 12:17:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301141-02 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00380		0.00200	mg/kg	1	B3A1021	01/10/2023	01/11/2023	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Toluene	0.00598		0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			"	"	"	
Surrogate: Toluene-d8	83.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	82.7 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0158	0.00109	0.00201	mg/Kg	1	L658348	01/13/2023	01/13/2023	
2-Methylnaphthalene	0.0229	0.00194	0.00201	"	"	"	"	"	
Naphthalene	0.00281	0.00145	0.00201	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	41.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	51.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	50.2 %		29-110			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	3.10		0.0867	mg/kg	10	B3A1023	01/10/2023	01/11/2023	
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Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22

WH - S02@6'

1/10/2023 12:17:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301141-02 (Soil)

Table 915 metals by EPA 6020B

Barium	77.1		8.67	mg/kg	10	B3A1023	01/10/2023	01/11/2023	
Selenium	0.188		0.0867	"	"	"	"	"	

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22

WH - E02@6'

1/10/2023 12:19:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301141-03 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0786		0.00200	mg/kg	1	B3A1021	01/10/2023	01/10/2023	
1,3,5-Trimethylbenzene	0.0298		0.00200	"	"	"	"	"	
Benzene	0.0357		0.00200	"	"	"	"	"	
Toluene	0.241		0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.2 %		70-130			"	"	"	
Surrogate: Toluene-d8	108 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0508	0.00109	0.00201	mg/Kg	1	L658348	01/13/2023	01/13/2023	
2-Methylnaphthalene	0.0827	0.00194	0.00201	"	"	"	"	"	
Naphthalene	0.0142	0.00145	0.00201	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	45.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	49.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	53.8 %		29-110			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	3.53		0.0868	mg/kg	10	B3A1023	01/10/2023	01/11/2023	
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Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22

WH - E02@6'

1/10/2023 12:19:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301141-03 (Soil)

Table 915 metals by EPA 6020B

Barium	526		8.68	mg/kg	10	B3A1023	01/10/2023	01/11/2023	
Selenium	0.189		0.0868	"	"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22

WH - W02@6'

1/10/2023 12:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y301141-04 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.188		0.00200	mg/kg	1	B3A1021	01/10/2023	01/11/2023	
1,3,5-Trimethylbenzene	0.0833		0.00200	"	"	"	"	"	
Benzene	0.251		0.0500	"	25	"	"	01/11/2023	
Toluene	1.45		0.0500	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	94.7 %		70-130			"	"	"	
Surrogate: Toluene-d8	85.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	83.5 %		70-130			"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.485	0.00109	0.00201	mg/Kg	1	L658348	01/13/2023	01/13/2023	
2-Methylnaphthalene	0.412	0.00194	0.00201	"	"	"	"	"	
Naphthalene	0.196	0.00145	0.00201	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	50.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	41.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	47.7 %		29-110			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	3.43		0.0891	mg/kg	10	B3A1023	01/10/2023	01/11/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22

WH - W02@6'

1/10/2023 12:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301141-04 (Soil)

Table 915 metals by EPA 6020B

Barium	88.5		8.91	mg/kg	10	B3A1023	01/10/2023	01/11/2023	
Selenium	0.380		0.0891	"	"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22

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 B3A1021 - EPA 5030 (soil)										
Blank (B3A1021-BLK1)					Prepared: 01/10/2023 Analyzed: 01/10/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22

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 B3A1021 - EPA 5030 (soil)										
LCS (B3A1021-BS1)					Prepared: 01/10/2023 Analyzed: 01/10/2023					
1,2,4-Trimethylbenzene	0.0839	0.00200	mg/kg	0.100		83.9	70-130			
1,3,5-Trimethylbenzene	0.0859	0.00200	"	0.100		85.9	70-130			
Benzene	0.0911	0.00200	"	0.100		91.1	70-130			
Ethylbenzene	0.0898	0.00200	"	0.100		89.8	70-130			
Naphthalene	0.0905	0.00380	"	0.100		90.5	70-130			
Toluene	0.0937	0.00200	"	0.100		93.7	70-130			
o-Xylene	0.0892	0.00200	"	0.100		89.2	70-130			
m,p-Xylene	0.175	0.00400	"	0.200		87.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22

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 B3A1021 - EPA 5030 (soil)										
Matrix Spike (B3A1021-MS1)		Source: Y301132-01			Prepared: 01/10/2023 Analyzed: 01/10/2023					
1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100	0.0115	88.5	70-130			
1,3,5-Trimethylbenzene	0.0949	0.00200	"	0.100	0.00332	91.6	70-130			
Benzene	0.226	0.00200	"	0.100	0.120	106	70-130			
Ethylbenzene	0.112	0.00200	"	0.100	0.0208	90.9	70-130			
Naphthalene	0.0978	0.00380	"	0.100	0.00224	95.6	70-130			
Toluene	0.237	0.00200	"	0.100	0.150	86.7	70-130			
o-Xylene	0.122	0.00200	"	0.100	0.0289	92.8	70-130			
m,p-Xylene	0.230	0.00400	"	0.200	0.0554	87.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22

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 B3A1021 - EPA 5030 (soil)										
Matrix Spike Dup (B3A1021-MSD1)		Source: Y301132-01			Prepared: 01/10/2023 Analyzed: 01/10/2023					
1,2,4-Trimethylbenzene	0.0912	0.00200	mg/kg	0.100	0.0115	79.7	70-130	9.17	20	
1,3,5-Trimethylbenzene	0.0867	0.00200	"	0.100	0.00332	83.3	70-130	9.08	20	
Benzene	0.199	0.00200	"	0.100	0.120	78.2	70-130	13.1	20	
Ethylbenzene	0.101	0.00200	"	0.100	0.0208	80.7	70-130	9.63	20	
Naphthalene	0.0893	0.00380	"	0.100	0.00224	87.0	70-130	9.15	20	
Toluene	0.208	0.00200	"	0.100	0.150	57.3	70-130	13.2	20	QM-07
o-Xylene	0.110	0.00200	"	0.100	0.0289	81.5	70-130	9.72	20	
m,p-Xylene	0.209	0.00400	"	0.200	0.0554	76.6	70-130	9.79	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22

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

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3A1023 - EPA 3050B

Blank (B3A1023-BLK1)

Prepared: 01/10/2023 Analyzed: 01/11/2023

Arsenic	ND	0.000100	mg/kg
Barium	ND	0.0100	"
Selenium	ND	0.000100	"

LCS (B3A1023-BS1)

Prepared: 01/10/2023 Analyzed: 01/11/2023

Arsenic	0.0486	0.000100	mg/kg	0.0500	97.1	80-120
Barium	4.80	0.0100	"	5.00	96.0	80-120
Selenium	0.0472	0.000100	"	0.0500	94.4	80-120

Matrix Spike (B3A1023-MS1)

Source: Y301141-01

Prepared: 01/10/2023 Analyzed: 01/11/2023

Arsenic	6.33	0.0864	mg/kg	4.32	6.75	NR	75-125	QM-07
Barium	774	8.64	"	432	2160	NR	75-125	QM-07
Selenium	3.52	0.0864	"	4.32	0.431	71.4	75-125	QM-07

Matrix Spike Dup (B3A1023-MSD1)

Source: Y301141-01

Prepared: 01/10/2023 Analyzed: 01/11/2023

Arsenic	7.27	0.0868	mg/kg	4.34	6.75	11.9	75-125	13.7	20	QM-07
Barium	853	8.68	"	434	2160	NR	75-125	9.61	20	QM-07
Selenium	3.74	0.0868	"	4.34	0.431	76.3	75-125	6.26	20	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L658348 - 3550B

MSD (L 92590-MSD-L658348)		Source: 92590			Prepared: 01/13/2023 Analyzed: 01/13/2023					
Naphthalene	0.0851	0.00201	mg/Kg	0.166	<0.00145	51.2	30-130	8.2	30	
2-Methylnaphthalene	0.0894	0.00201	"	0.166	<0.00194	53.8	30-130	7	30	
1-Methylnaphthalene	0.0878	0.00201	"	0.166	<0.00109	52.8	30-130	6.7	30	
Surrogate: Nitrobenzene-d5	48.6		"	0.331	164	48.6	29-110			
Surrogate: 2-Fluorobiphenyl	46.2		"	0.331	151	46.2	33-115			
Surrogate: 4-Terphenyl-d14	46.8		"	0.331	146	46.8	33-122			

MS (L 92590-MS-L658348)		Source: 92590			Prepared: 01/13/2023 Analyzed: 01/13/2023					
2-Methylnaphthalene	0.0959	0.00201	mg/Kg	0.166	<0.00194	57.7	30-130			
Naphthalene	0.0924	0.00201	"	0.166	<0.00145	55.6	30-130			
1-Methylnaphthalene	0.0939	0.00201	"	0.166	<0.00109	56.5	30-130			
Surrogate: 2-Fluorobiphenyl	49.3		"	0.332	151	49.3	33-115			
Surrogate: 4-Terphenyl-d14	48.4		"	0.332	146	48.4	33-122			
Surrogate: Nitrobenzene-d5	52.4		"	0.332	164	52.4	29-110			

LCS (LCS-L658348)		Prepared: 01/13/2023 Analyzed: 01/13/2023								
2-Methylnaphthalene	0.0981	0.00201	mg/Kg	0.167		58.7	30-130			
1-Methylnaphthalene	0.0918	0.00201	"	0.167		54.9	30-130			
Naphthalene	0.0952	0.00201	"	0.167		57	30-130			
Surrogate: Nitrobenzene-d5	54.6		"	0.333		54.6	29-110			
Surrogate: 4-Terphenyl-d14	55.8		"	0.333		55.8	33-122			
Surrogate: 2-Fluorobiphenyl	52.2		"	0.333		52.2	33-115			

LRB (LRB-L658348)		Prepared: 01/13/2023 Analyzed: 01/13/2023								
1-Methylnaphthalene	ND	0.00201	mg/Kg			-				
2-Methylnaphthalene	ND	0.00201	"			-				
Naphthalene	ND	0.00201	"			-				
Surrogate: 2-Fluorobiphenyl	49.2		"	0.333		49.2	33-115			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L658348 - 3550B

LRB (LRB-L658348)

Prepared: 01/13/2023 Analyzed: 01/13/2023

Surrogate: 4-Terphenyl-d14	53.1		mg/Kg	0.333		53.1	33-122			
Surrogate: Nitrobenzene-d5	57.3		"	0.333		57.3	29-110			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Howard 9C-22

Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported 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.

ATTACHMENT B
FIELD NOTES AND PHOTOGRAPHIC LOG

Wellhead Closure Checklist

Additional Attachments (Optional)

Well Name	Howard 9C-22HZ
Remediation Project #	29438
Date	12/20/2022

Wellhead Information

Client	Oxy
Weather	47° sunny
Field Personnel	Chris Bodie
Location	
Latitude	40.0171314
Longitude	-104.87047721
General Condition of Site	Good
USCS Soil Type	
Estimated Depth to Groundwater	<20'
Hydrocarbon Impacted Soils / Spills	Active release
Salt Crusted Soils or Impacted Vegetation	None observed

Soil Samples

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Olfactory	Equipment Name
R1	12/20/2022	01:30 PM	Initial Waste Characterization @2.5'	674.8	N.S	HC odor	
R2	01/03/2023	12:09 PM	WH-B01@6'	202.8	slight HC staining	Strong HC odor	wellhead
R3	01/03/2023	12:11 PM	WH-N01@5'	200.7	N.S	Strong HC odor	wellhead
R4	01/03/2023	12:12 PM	WH-S01@5'	60.1	N.S	N.O	wellhead
R5	01/03/2023	12:14 PM	WH-E01@5'	46.9	N.S	Strong HC odor	wellhead
R6	01/03/2023	12:17 PM	WH-W01@5'	60.7	Slight HC staining	Strong HC odor	wellhead
R7	01/09/2023	10:39 AM	WH-B01@10'	133.1	N.S	Strong HC odor	wellhead
R8	01/10/2023	12:55 PM	WH-N02@6'	1562	N.S	Strong HC odor	wellhead
R9	01/10/2023	12:57 PM	WH-S02@6'	43.9	N.S	Slight HC odor	wellhead
R10	01/10/2023	12:58 PM	WH-E02@6'	33.0	N.S	Slight HC odor	wellhead

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Olfactory	Equipment Name
R11	01/10/2023	12:59 PM	WH-W02@6'	1331	N.S	Strong HC odor	wellhead

Photo(s)

R1 - P1



looking south

R2 - P1



Looking northeast

R4 - P1



Looking southwest

R5 - P1



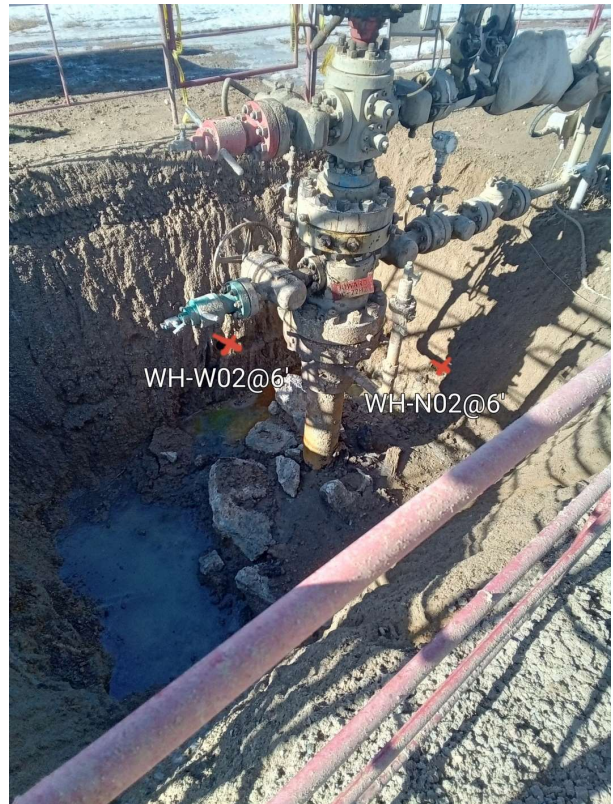
Looking east

R7 - P1



Looking northeast

R8 - P1



Looking northwest



Looking southeast

Other observations regarding wellheads

Summary

Was impacted soil identified?	Yes - less than 10 cubic yards
Total number of soil samples field screened	11
Total number of soil samples collected	11
Highest PID Reading	1562
Total number of soil samples submitted to lab for analysis	11
Was groundwater encountered during the investigation?	No
Measured depth to groundwater	
Was remedial groundwater removal conducted?	
Date Groundwater was encountered	
Commencement date of removal	
Sheen on groundwater?	
Free product observed?	
Volume of groundwater removed prior to sampling	
Volume of groundwater removed post sampling	
Total volume of groundwater removed	
Total number of groundwater samples collected	
Total number of groundwater samples submitted to lab for analysis	

ATTACHMENT C
STATE NOTIFICATION



Fwd: FW: State Reportable Release 24 Hour Notification - HOWARD 9C-22

1 message

From: Ochoa, Ariana

Sent: Tuesday, December 20, 2022 11:54 AM

To: Kari.oakman@state.co.us; Jason Maxey <jmaxey@weldgov.com>; Roy Rudisill (rrudisill@co.weld.co.us) <rrudisill@co.weld.co.us>

Cc: Hamilton, Gregory <Gregory_Hamilton@oxy.com>; Scranton, Lynna <Lynna_Scranton@oxy.com>; Mickelson, Erik <Erik_Mickelson@oxy.com>; Rowley, Taylor <Taylor_Rowley@oxy.com>; Bugarin, Eve (New Tech Global Rig Personnel LLC) <Eve_Bugarin@oxy.com>; Lytle, Andy <Andrew_Lytle@oxy.com>; Jobe, Don <Don_Jobe@oxy.com>; Grage, Mark <Mark_Grage@oxy.com>; Bartoszek, Jaron (Swift Technical Services LLC) <Jaron_Bartoszek@oxy.com>; Brice, Jennifer <Jennifer_Brice@oxy.com>; Neely, Dewey (Platteville) <Dewey_Neely2@oxy.com>; Coleman, Julie <Julie_Coleman@oxy.com>; Riemer, Joseph <Joseph_Riemer@oxy.com>; Wells, Matt <Matthew_Wells@oxy.com>; Mathes, Robert <Robert_Mathes@oxy.com>; Hamlin, Mark G <Mark_Hamlin@oxy.com>; Marshall, Shayelyn <Shayelyn_marshall@oxy.com>; Wells, Matt <Matthew_Wells@oxy.com>

Subject: State Reportable Release 24 Hour Notification - HOWARD 9C-22

Good afternoon

We identified a state reportable release following the disposal of more than 10 cubic yards of potentially impacted soil. This release has been controlled and cleanup activities are in process. A Form 19 Release Report is forthcoming. This release did not threaten Waters of the State, Public Water System, residences or occupied structures, livestock, wildlife, air quality, or publicly-maintained roads.

The following have been notified via specified method below:

- Weld County contacted via electronic mail
- Surface Owner notification in process

The Environmental Release/Incident Report Hotline and Colorado Parks and Wildlife were not contacted as this release did not trigger notification requirements per 912.b.(2)B

Location Details:

- Wellhead Name: HOWARD 9C-22
- Location: SESE 27 1N 67W
- Latitude/Longitude: 40.017137 / -104.870463
- Wellhead ID: 05-123-38234

Please let me know if you have any questions.

Thank you,

Ariana Ochoa

Sr. HSE Representative

Occidental Petroleum Corporation

t: (832) 636-4957