

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
MARTINDALE STATE 7-36 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL GAS ONSHORE, LP

Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	Submitted for Lab Analysis? (Y/N)
WELLHEAD EXCAVATION SAMPLES								
N Wall	3/28/2022	NA	4.8	NS	NO	NA	NA	N
E Wall	3/28/2022	NA	4.1	NS	NO	NA	NA	N
S Wall	3/28/2022	NA	5.4	NS	NO	NA	NA	N
W Wall	3/28/2022	NA	3.8	NS	NO	NA	NA	N
B01@6'	3/28/2022	6	18.2	NS	YES	NA	NA	Y
FLOWLINE POTHOLE SAMPLES								
Pothole 01	1/27/2022	5	0.0	NS	NO	NA	NA	N
Pothole 02	1/27/2022	5	0.0	NS	NO	NA	NA	N
Pothole 03	1/27/2022	5	0.0	NS	NO	NA	NA	N
Pothole 04	1/27/2022	5	0.0	NS	NO	NA	NA	N
Pothole 05	1/27/2022	5	0.0	NS	NO	NA	NA	N
SEPARATOR RISER SAMPLES								
Sep01-Inlet@3' (Rem No. 21438)	1/26/2022	3	15.3	NS	NO	NA	NA	Y
BACKGROUND SOIL SAMPLES								
Native-BG01@3'	3/28/2022	3	1.2	NS	NO	NA	NA	Y
Native-BG01@6'	3/28/2022	6	1.0	NS	NO	NA	NA	Y
Native-BG02@3'	3/28/2022	3	0.8	NS	NO	NA	NA	Y
Native-BG02@6'	3/28/2022	6	1.4	NS	NO	NA	NA	Y
Native-BG03@3'	3/28/2022	3	1.1	NS	NO	NA	NA	Y
Native-BG03@6'	3/28/2022	6	0.8	NS	NO	NA	NA	Y
Native-BG04@3'	3/28/2022	3	1.0	NS	NO	NA	NA	Y
Native-BG04@6'	3/28/2022	6	0.9	NS	NO	NA	NA	Y

Notes:

ft. - feet

bgs - below ground surface

PID - Photoionization detector

ppm - parts per million

NS - No Staining

NO - No Odor

NA - Not Analyzed/Not Applicable

TABLE 2-1
SOIL SAMPLE SOIL SAMPLE ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS
MARTINDALE STATE 7-36 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	TPH-GRO* (mg/kg)	TPH-DRO* (mg/kg)	TPH-RRO* (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4- Trimethyl benzene (mg/kg)	1,3,5- Trimethyl benzene (mg/kg)	Naphthalene (mg/kg)
Groundwater Protection Values (GPV)			500	500	500	0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
WELLHEAD EXCAVATION SAMPLES												
B01@6'	3/28/2022	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	NA	NA	NA
SEPARATOR RISER SAMPLES												
Sep01-Inlet@3' (Rem #21438)	1/26/2022	3	0.48	<25.0	<100	0.0189	0.0787	0.00854	<0.00200	0.0434	0.0233	<0.00380

TABLE 2-2
SOIL SAMPLE SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
MARTINDALE STATE 7-36 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	Acenaphthe ne (mg/Kg)	Anthracene (mg/Kg)	Benzo (a) anthracene (mg/Kg)	Benzo (b) fluoranthen e (mg/Kg)	Benzo (k) fluoranthen e (mg/Kg)	Benzo (a) pyrene (mg/Kg)	Chrysene (mg/Kg)	Dibenz (a,h) anthracene (mg/Kg)	Fluoranthen e (mg/Kg)	Fluorene (mg/Kg)	Indeno (1,2,3-cd) pyrene (mg/Kg)	1-Methyl naphthalen e (mg/Kg)	2-Methyl naphthalen e (mg/Kg)	Pyrene (mg/Kg)
Groundwater Protection Values (GPV)			0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3
WELLHEAD EXCAVATION SAMPLES																
B01@6'	3/28/2022	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR RISER SAMPLES																
Sep01-Inlet@3' (Rem #21438)	1/26/2022	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 2-3
SOIL SAMPLE SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
MARTINDALE STATE 7-36 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	EC (mmhos/cm)	SAR	pH	Boron (mg/L)
Groundwater Protection Values (GPV)			4	6	6-8.3	2
WELLHEAD EXCAVATION SAMPLES						
B01@6'	3/28/2022	6	0.878	3.49	8.49	0.238
SEPARATOR RISER SAMPLES						
Sep01-Inlet@3' (Rem #21438)	1/26/2022	3	0.319	2.46	7.95	<0.200
BACKGROUND SAMPLES						
Native-BG01@3'	3/28/2022	3	0.588	3.08	8.02	<0.0988
Native-BG01@6'	3/28/2022	6	0.394	2.8	8.17	<0.100
Native-BG02@3'	3/28/2022	3	0.429	3.48	8.35	<0.101
Native-BG02@6'	3/28/2022	6	0.460	3.93	8.42	<0.0996
Native-BG03@3'	3/28/2022	3	0.686	3.54	8.09	0.120
Native-BG03@6'	3/28/2022	6	0.540	4.30	8.27	0.119
Native-BG04@3'	3/28/2022	3	0.409	2.80	8.32	<0.101
Native-BG04@6'	3/28/2022	6	0.364	2.31	8.42	<0.100

TABLE 2-4
SOIL SAMPLE SOIL SAMPLE ANALYTICAL RESULTS
METALS
MARTINDALE STATE 7-36 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL GAS ONSHORE, LP

Soil Sample ID	Date	Depth	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
Groundwater Protection Value (GPV)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
WELLHEAD EXCAVATION SAMPLES												
B01@6'	3/28/2022	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR RISER SAMPLES												
Sep01-Inlet@3' (Rem #21438)	1/26/2022	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND SAMPLES												
Native-BG01@3'	3/28/2022	3	0.495	12.7	0.0301	<0.244	1.62	2.43	1.29	0.149	0.0108	7.4
Native-BG01@6'	3/28/2022	6	0.466	18.0	0.0609	<0.247	1.39	3.19	1.69	0.151	0.0171	7.8
Native-BG02@3'	3/28/2022	3	0.923	15.1	0.0397	<0.245	2.16	3.46	1.71	0.211	0.0136	11.3
Native-BG02@6'	3/28/2022	6	0.507	31.6	0.0409	<0.245	2.92	4.88	2.71	0.264	0.0205	14.1
Native-BG03@3'	3/28/2022	3	1.72	38.9	0.0441	<0.249	2.02	3.49	2.08	0.288	0.0169	12.2
Native-BG03@6'	3/28/2022	6	1.06	21.3	0.0318	<0.246	1.75	3.48	1.61	0.200	0.0203	8.65
Native-BG04@3'	3/28/2022	3	1.17	16.9	0.0609	<0.245	2.15	2.88	1.71	0.286	0.0147	11.3
Native-BG04@6'	3/28/2022	6	2.08	42.3	0.043	<0.249	1.78	6.08	1.77	0.223	0.0223	11.5

TABLE 2-5
SOIL SAMPLE SOIL SAMPLE ANALYTICAL RESULTS
NOTES
MARTINDALE STATE 7-36 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL GAS ONSHORE, LP

Notes:

GPV - Groundwater Protection Values (mg/kg)

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

RRO - Residual Range Organics

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

EC - Electrical Conductivity

SAR - Sodium Adsorption Ratio

mmhos/cm - millimhos per centimeter

<0.00200 - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

Bold indicated exceeds allowable level



April 08, 2022

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

**Project Name - KMG - Martindale State 7-36
Wellhead**

Project Number - 31403177.022.05.05

Attached are your analytical results for KMG - Martindale State 7-36 Wellhead received by Origins Laboratory, Inc. March 28, 2022. This project is associated with Origins project number Y203708-01.

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

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

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

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

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

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



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

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.022.05.05

Project: KMG - Martindale State 7-36 Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@6	Y203708-01	Soil	March 28, 2022 14:42	03/28/2022 16:53
Native-BG01@3	Y203708-02	Soil	March 28, 2022 14:51	03/28/2022 16:53
Native-BG01@6	Y203708-03	Soil	March 28, 2022 14:52	03/28/2022 16:53
Native-BG02@3	Y203708-04	Soil	March 28, 2022 14:55	03/28/2022 16:53
Native-BG02@6	Y203708-05	Soil	March 28, 2022 14:56	03/28/2022 16:53
Native-BG03@3	Y203708-06	Soil	March 28, 2022 15:00	03/28/2022 16:53
Native-BG03@6	Y203708-07	Soil	March 28, 2022 15:01	03/28/2022 16:53
Native-BG04@3	Y203708-08	Soil	March 28, 2022 15:05	03/28/2022 16:53
Native-BG04@6	Y203708-09	Soil	March 28, 2022 15:06	03/28/2022 16:53

Origins Laboratory, Inc.



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

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.022.05.05

Project: KMG - Martindale State 7-36 Wellhead

www.originslaboratory.com

ORIGINS
LABORATORY, INC

page 1 of 1

Client: WSP USA
Address: 4600 W 60th Ave
Arvada, CO 80003
Telephone Number: 303 889 9943
Email Address: KMG Group

Project Manager: Brian Sulzberger
Project Name: Martindale State 7-36 Wellhead
Project Number: 31403177.022.05.05
Samples Collected By: Kyle Mathis

Fax: 303.265.9645

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions				
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summation	Other	GBR/EX/IN	PH/EC/SAR	TPH (G/G)		Barion	915 metals		
Bol 06	3/28/12	1442	2																
Native-B60103		1451	1																
Native-B60106		1452	1																
Native-B60203		1455	1																
Native-B60206		1456	1																
Native-B60303		1500	1																
Native-B60306		1501	1																
Native-B60403		1505	1																
Native-B60406		1506	1																
Relinquished By: Kyle Mathis	Date: 3/28/12	Time: 1657		Received By: [Signature]	Date: 3/28/12	Time: 1657		Received By: [Signature]	Date: 3/28/12	Time: 1657		Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>							

Date Results Needed

Temp Received: S.I.

Origins Laboratory, Inc.

Byron

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

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.022.05.05

Project: KMG - Martindale State 7-36 Wellhead

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y2037096

Client: WSP

Client Project ID: Martindale State 7-36 u

Checklist Completed by: SL

Shipped Via: HD

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

Date/time completed: 3/28/22

Airbill #: N/A

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

Water

Other:

(Describe)

Cooler Number/Temperature: 1 15.1 °C

°C

°C

°C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
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 NH ₄ SO ₂ +NaOH, ZnAc ₂ -NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager)

Date/Time Reviewed 3/28/22

Origins Laboratory, Inc.

J. Bynon

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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

B01@6
3/28/2022 2:42:00PM

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

Origins Laboratory, Inc.
Y203708-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.238	0.0993	mg/L	1	B2C2909	03/29/2022	03/30/2022	
-------	-------	--------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C2832	03/28/2022	03/28/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	95.3 %	50-150	"	"	"	"	"
------------------------	--------	--------	---	---	---	---	---

GBTEX+TMBs by 8260D

Benzene	ND	0.00200	mg/kg	1	B2C2833	03/28/2022	03/28/2022	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	98.4 %	70-130	"	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"	"
Surrogate: 4-Bromofluorobenzene	91.9 %	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.

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

B01@6

3/28/2022 2:42:00PM

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

Origins Laboratory, Inc.
Y203708-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.87	0.499	meq/L	10	[CALC]	03/29/2022	03/31/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	4.72	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.49		pH Units	1	B2C2916	03/31/2022	04/01/2022
----	------	--	----------	---	---------	------------	------------

SAR by 20B Saturated Paste

SAR	3.49		SAR	1	B2C2907	03/29/2022	03/31/2022
-----	------	--	-----	---	---------	------------	------------

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.878	0.00500	mmhos/cm	1	B2C2914	03/30/2022	03/31/2022
---------------------------	-------	---------	----------	---	---------	------------	------------

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

Native-BG01@3
3/28/2022 2:51:00PM

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

Origins Laboratory, Inc.
Y203708-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0988	mg/L	1	B2C2910	03/29/2022	03/30/2022
-------	----	--------	------	---	---------	------------	------------

Metals by Saturated Paste by EPA 6010

Calcium	1.84	0.499	meq/L	10	[CALC]	03/29/2022	03/31/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.48	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.02		pH Units	1	B2C2916	03/31/2022	04/01/2022
----	------	--	----------	---	---------	------------	------------

SAR by 20B Saturated Paste

SAR	3.08		SAR	1	B2C2907	03/29/2022	03/31/2022
-----	------	--	-----	---	---------	------------	------------

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.588	0.00500	mmhos/cm	1	B2C2914	03/30/2022	03/31/2022
---------------------------	-------	---------	----------	---	---------	------------	------------

Total Metals by 6020B

Arsenic	0.495	0.0855	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022
Barium	12.7	0.042	0.25	"	"	"	"	"
Cadmium	0.0301	0.0259	0.25	"	"	"	"	"
Copper	1.62	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.022.05.05

Project: KMG - Martindale State 7-36 Wellhead

Native-BG01@3

3/28/2022 2:51:00PM

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

Waypoint Analytical, LLC.

Y203708-02 (Soil)

Total Metals by 6020B

Lead	2.43	0.031	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
Nickel	1.29	0.0633	0.25	"	"	"	"	"	
Selenium	0.149	0.103	0.25	"	"	"	"	"	J
Silver	0.0108	0.0067	0.25	"	"	"	"	"	J
Zinc	7.4	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L609117	03/28/2022	04/06/2022	
----------------------	----	-------	-----	-------	---	---------	------------	------------	--

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

Native-BG01@6

3/28/2022 2:52:00PM

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

Origins Laboratory, Inc. Y203708-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2C2910	03/29/2022	03/30/2022
-------	----	-------	------	---	---------	------------	------------

Metals by Saturated Paste by EPA 6010

Calcium	1.12	0.499	meq/L	10	[CALC]	03/29/2022	03/31/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.44	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.17		pH Units	1	B2C2916	03/31/2022	04/01/2022
----	------	--	----------	---	---------	------------	------------

SAR by 20B Saturated Paste

SAR	2.80		SAR	1	B2C2907	03/29/2022	03/31/2022
-----	------	--	-----	---	---------	------------	------------

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.394	0.00500	mmhos/cm	1	B2C2914	03/30/2022	03/31/2022
---------------------------	-------	---------	----------	---	---------	------------	------------

Total Metals by 6020B

Arsenic	0.466	0.0855	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022
Barium	18	0.042	0.25	"	"	"	"	"
Cadmium	0.0609	0.0259	0.25	"	"	"	"	"
Copper	1.39	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

Native-BG01@6**3/28/2022 2:52:00PM**

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

Waypoint Analytical, LLC.
Y203708-03 (Soil)**Total Metals by 6020B**

Lead	3.19	0.031	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
Nickel	1.69	0.0633	0.25	"	"	"	"	"	
Selenium	0.151	0.103	0.25	"	"	"	"	"	J
Silver	0.0171	0.0067	0.25	"	"	"	"	"	J
Zinc	7.8	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.247	0.507	mg/Kg	1	L609117	03/28/2022	04/06/2022	
----------------------	----	-------	-------	-------	---	---------	------------	------------	--

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

Native-BG02@3
3/28/2022 2:55:00PM

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

Origins Laboratory, Inc.
Y203708-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B2C2910	03/29/2022	03/30/2022
-------	----	-------	------	---	---------	------------	------------

Metals by Saturated Paste by EPA 6010

Calcium	0.888	0.499	meq/L	10	[CALC]	03/29/2022	03/31/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.76	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.35	pH Units	1	B2C2916	03/31/2022	04/01/2022
----	------	----------	---	---------	------------	------------

SAR by 20B Saturated Paste

SAR	3.48	SAR	1	B2C2907	03/29/2022	03/31/2022
-----	------	-----	---	---------	------------	------------

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.429	0.00500	mmhos/cm	1	B2C2914	03/30/2022	03/31/2022
---------------------------	-------	---------	----------	---	---------	------------	------------

Total Metals by 6020B

Arsenic	0.923	0.0855	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022
Barium	15.1	0.042	0.25	"	"	"	"	"
Cadmium	0.0397	0.0259	0.25	"	"	"	"	"
Copper	2.16	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.022.05.05

Project: KMG - Martindale State 7-36 Wellhead

Native-BG02@3

3/28/2022 2:55:00PM

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

Waypoint Analytical, LLC.

Y203708-04 (Soil)

Total Metals by 6020B

Lead	3.46	0.031	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
Nickel	1.71	0.0633	0.25	"	"	"	"	"	
Selenium	0.211	0.103	0.25	"	"	"	"	"	J
Silver	0.0136	0.0067	0.25	"	"	"	"	"	J
Zinc	11.3	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.504	mg/Kg	1	L609117	03/28/2022	04/06/2022	
----------------------	----	-------	-------	-------	---	---------	------------	------------	--

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

Native-BG02@6

3/28/2022 2:56:00PM

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

Origins Laboratory, Inc. Y203708-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0996	mg/L	1	B2C2910	03/29/2022	03/30/2022
-------	----	--------	------	---	---------	------------	------------

Metals by Saturated Paste by EPA 6010

Calcium	0.968	0.499	meq/L	10	[CALC]	03/29/2022	03/31/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.28	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.42	pH Units	1	B2C2916	03/31/2022	04/01/2022
----	------	----------	---	---------	------------	------------

SAR by 20B Saturated Paste

SAR	3.93	SAR	1	B2C2907	03/29/2022	03/31/2022
-----	------	-----	---	---------	------------	------------

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.460	0.00500	mmhos/cm	1	B2C2914	03/30/2022	03/31/2022
---------------------------	-------	---------	----------	---	---------	------------	------------

Total Metals by 6020B

Arsenic	0.507	0.0855	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022
Barium	31.6	0.042	0.25	"	"	"	"	"
Cadmium	0.0409	0.0259	0.25	"	"	"	"	"
Copper	2.92	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

Native-BG02@6**3/28/2022 2:56:00PM**

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

Waypoint Analytical, LLC.
Y203708-05 (Soil)**Total Metals by 6020B**

Lead	4.88	0.031	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
Nickel	2.71	0.0633	0.25	"	"	"	"	"	
Selenium	0.264	0.103	0.25	"	"	"	"	"	
Silver	0.0205	0.0067	0.25	"	"	"	"	"	J
Zinc	14.1	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.504	mg/Kg	1	L609117	03/28/2022	04/06/2022	
----------------------	----	-------	-------	-------	---	---------	------------	------------	--

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

Native-BG03@3

3/28/2022 3:00:00PM

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

Origins Laboratory, Inc. Y203708-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.120	0.100	mg/L	1	B2C2910	03/29/2022	03/30/2022
-------	-------	-------	------	---	---------	------------	------------

Metals by Saturated Paste by EPA 6010

Calcium	2.04	0.499	meq/L	10	[CALC]	03/29/2022	03/31/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	4.22	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.09	pH Units	1	B2C2916	03/31/2022	04/01/2022
----	------	----------	---	---------	------------	------------

SAR by 20B Saturated Paste

SAR	3.54	SAR	1	B2C2907	03/29/2022	03/31/2022
-----	------	-----	---	---------	------------	------------

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.686	0.00500	mmhos/cm	1	B2C2914	03/30/2022	03/31/2022
---------------------------	-------	---------	----------	---	---------	------------	------------

Total Metals by 6020B

Arsenic	1.72	0.0855	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022
Barium	38.9	0.042	0.25	"	"	"	"	"
Cadmium	0.0441	0.0259	0.25	"	"	"	"	"
Copper	2.02	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

Native-BG03@3

3/28/2022 3:00:00PM

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

Waypoint Analytical, LLC. Y203708-06 (Soil)

Total Metals by 6020B

Lead	3.49	0.031	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
Nickel	2.08	0.0633	0.25	"	"	"	"	"	
Selenium	0.288	0.103	0.25	"	"	"	"	"	
Silver	0.0169	0.0067	0.25	"	"	"	"	"	J
Zinc	12.2	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.249	0.512	mg/Kg	1	L609117	03/28/2022	04/06/2022	
----------------------	----	-------	-------	-------	---	---------	------------	------------	--

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

Native-BG03@6

3/28/2022 3:01:00PM

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

Origins Laboratory, Inc. Y203708-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.119	0.0993	mg/L	1	B2C2910	03/29/2022	03/30/2022
-------	-------	--------	------	---	---------	------------	------------

Metals by Saturated Paste by EPA 6010

Calcium	1.14	0.499	meq/L	10	[CALC]	03/29/2022	03/31/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.87	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.27	pH Units	1	B2C2916	03/31/2022	04/01/2022
----	------	----------	---	---------	------------	------------

SAR by 20B Saturated Paste

SAR	4.30	SAR	1	B2C2907	03/29/2022	03/31/2022
-----	------	-----	---	---------	------------	------------

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.540	0.00500	mmhos/cm	1	B2C2914	03/30/2022	03/31/2022
---------------------------	-------	---------	----------	---	---------	------------	------------

Total Metals by 6020B

Arsenic	1.06	0.0855	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022
Barium	21.3	0.042	0.25	"	"	"	"	"
Cadmium	0.0318	0.0259	0.25	"	"	"	"	"
Copper	1.75	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.022.05.05

Project: KMG - Martindale State 7-36 Wellhead

Native-BG03@6

3/28/2022 3:01:00PM

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

Waypoint Analytical, LLC.

Y203708-07 (Soil)

Total Metals by 6020B

Lead	3.48	0.031	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
Nickel	1.61	0.0633	0.25	"	"	"	"	"	
Selenium	0.2	0.103	0.25	"	"	"	"	"	J
Silver	0.0203	0.0067	0.25	"	"	"	"	"	J
Zinc	8.65	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.246	0.506	mg/Kg	1	L609117	03/28/2022	04/06/2022	
----------------------	----	-------	-------	-------	---	---------	------------	------------	--

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

Native-BG04@3

3/28/2022 3:05:00PM

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

Origins Laboratory, Inc. Y203708-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B2C2910	03/29/2022	03/30/2022
-------	----	-------	------	---	---------	------------	------------

Metals by Saturated Paste by EPA 6010

Calcium	1.17	0.499	meq/L	10	[CALC]	03/29/2022	03/31/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.54	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.32		pH Units	1	B2C2921	03/31/2022	04/01/2022
----	------	--	----------	---	---------	------------	------------

SAR by 20B Saturated Paste

SAR	2.80		SAR	1	B2C2908	03/29/2022	03/31/2022
-----	------	--	-----	---	---------	------------	------------

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.409	0.00500	mmhos/cm	1	B2C2917	03/30/2022	03/31/2022
---------------------------	-------	---------	----------	---	---------	------------	------------

Total Metals by 6020B

Arsenic	1.17	0.0855	0.25	mg/Kg	5	L608314	04/01/2022	04/04/2022
Barium	16.9	0.042	0.25	"	"	"	"	"
Cadmium	0.0609	0.0259	0.25	"	"	"	"	"
Copper	2.15	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

Native-BG04@3

3/28/2022 3:05:00PM

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

Waypoint Analytical, LLC.

Y203708-08 (Soil)

Total Metals by 6020B

Lead	2.88	0.031	0.25	mg/Kg	5	L608314	04/01/2022	04/04/2022	
Nickel	1.71	0.0633	0.25	"	"	"	"	"	
Selenium	0.286	0.103	0.25	"	"	"	"	"	
Silver	0.0147	0.0067	0.25	"	"	"	"	"	J
Zinc	11.3	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.504	mg/Kg	1	L609119	03/28/2022	04/06/2022	
----------------------	----	-------	-------	-------	---	---------	------------	------------	--

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

Native-BG04@6

3/28/2022 3:06:00PM

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

Origins Laboratory, Inc. Y203708-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2C2910	03/29/2022	03/30/2022
-------	----	-------	------	---	---------	------------	------------

Metals by Saturated Paste by EPA 6010

Calcium	1.18	0.499	meq/L	10	[CALC]	03/29/2022	03/31/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.08	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.42		pH Units	1	B2C2921	03/31/2022	04/01/2022
----	------	--	----------	---	---------	------------	------------

SAR by 20B Saturated Paste

SAR	2.31		SAR	1	B2C2908	03/29/2022	03/31/2022
-----	------	--	-----	---	---------	------------	------------

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.364	0.00500	mmhos/cm	1	B2C2917	03/30/2022	03/31/2022
---------------------------	-------	---------	----------	---	---------	------------	------------

Total Metals by 6020B

Arsenic	2.08	0.0855	0.25	mg/Kg	5	L608314	04/01/2022	04/04/2022
Barium	42.3	0.042	0.25	"	"	"	"	"
Cadmium	0.043	0.0259	0.25	"	"	"	"	"
Copper	1.78	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

Native-BG04@6

3/28/2022 3:06:00PM

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

Waypoint Analytical, LLC.
Y203708-09 (Soil)

Total Metals by 6020B

Lead	6.08	0.031	0.25	mg/Kg	5	L608314	04/01/2022	04/04/2022	
Nickel	1.77	0.0633	0.25	"	"	"	"	"	
Selenium	0.223	0.103	0.25	"	"	"	"	"	J
Silver	0.0233	0.0067	0.25	"	"	"	"	"	J
Zinc	11.5	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.249	0.512	mg/Kg	1	L609119	03/28/2022	04/06/2022	
----------------------	----	-------	-------	-------	---	---------	------------	------------	--

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

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 B2C2832 - EPA 3550B										
Blank (B2C2832-BLK1)					Prepared: 03/28/2022 Analyzed: 03/28/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		98.9	50-150			

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

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 B2C2832 - EPA 3550B

LCS (B2C2832-BS1)

Prepared: 03/28/2022 Analyzed: 03/28/2022

Diesel (C10-C28)	795	50.0	mg/kg	1000		79.5	70-130			
Residual Range Organics (C28-C40)	941	200	"	1000		94.1	70-130			
Surrogate: o-Terphenyl	50		"	49.8		100	50-150			

Origins Laboratory, Inc.



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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.022.05.05

Project: KMG - Martindale State 7-36 Wellhead

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 B2C2832 - EPA 3550B

Matrix Spike (B2C2832-MS1)		Source: Y203702-01			Prepared: 03/28/2022 Analyzed: 03/28/2022					
Diesel (C10-C28)	815	50.0	mg/kg	1000	ND	81.5	70-130			
Residual Range Organics (C28-C40)	953	200	"	1000	ND	95.3	70-130			
Surrogate: o-Terphenyl	50		"	49.8		99.8	50-150			

Origins Laboratory, Inc.



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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.022.05.05

Project: KMG - Martindale State 7-36 Wellhead

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 B2C2832 - EPA 3550B

Matrix Spike Dup (B2C2832-MSD1)		Source: Y203702-01			Prepared: 03/28/2022 Analyzed: 03/28/2022					
Diesel (C10-C28)	839	50.0	mg/kg	1000	ND	83.9	70-130	2.85	35	
Residual Range Organics (C28-C40)	993	200	"	1000	ND	99.3	70-130	4.06	35	
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

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 B2C2833 - EPA 5030 (soil)										
Blank (B2C2833-BLK1)					Prepared: 03/28/2022 Analyzed: 03/28/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.4	70-130			

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

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 B2C2833 - EPA 5030 (soil)										
LCS (B2C2833-BS1)					Prepared: 03/28/2022 Analyzed: 03/28/2022					
1,2,4-Trimethylbenzene	0.0873	0.00200	mg/kg	0.100		87.3	70-130			
1,3,5-Trimethylbenzene	0.0877	0.00200	"	0.100		87.7	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.0872	0.00200	"	0.100		87.2	70-130			
Naphthalene	0.0977	0.0100	"	0.100		97.7	70-130			
Toluene	0.0990	0.00200	"	0.100		99.0	70-130			
o-Xylene	0.0868	0.00200	"	0.100		86.8	70-130			
m,p-Xylene	0.175	0.00400	"	0.200		87.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.0	70-130			

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

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 B2C2833 - EPA 5030 (soil)

Matrix Spike (B2C2833-MS1)		Source: Y203702-01			Prepared: 03/28/2022 Analyzed: 03/28/2022					
1,2,4-Trimethylbenzene	0.0852	0.00200	mg/kg	0.100	ND	85.2	70-130			
1,3,5-Trimethylbenzene	0.0870	0.00200	"	0.100	ND	87.0	70-130			
Benzene	0.0948	0.00200	"	0.100	ND	94.8	70-130			
Ethylbenzene	0.0836	0.00200	"	0.100	ND	83.6	70-130			
Naphthalene	0.0977	0.0100	"	0.100	ND	97.7	70-130			
Toluene	0.0990	0.00200	"	0.100	ND	99.0	70-130			
o-Xylene	0.0845	0.00200	"	0.100	ND	84.5	70-130			
m,p-Xylene	0.167	0.00400	"	0.200	ND	83.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.5	70-130			

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

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 B2C2833 - EPA 5030 (soil)										
Matrix Spike Dup (B2C2833-MSD1)		Source: Y203702-01			Prepared: 03/28/2022 Analyzed: 03/28/2022					
1,2,4-Trimethylbenzene	0.145	0.00200	mg/kg	0.100	ND	145	70-130	51.8	20	QM-07
1,3,5-Trimethylbenzene	0.142	0.00200	"	0.100	ND	142	70-130	48.3	20	QM-07
Benzene	0.155	0.00200	"	0.100	ND	155	70-130	48.0	20	QM-07
Ethylbenzene	0.141	0.00200	"	0.100	ND	141	70-130	51.1	20	QM-07
Naphthalene	0.151	0.0100	"	0.100	ND	151	70-130	42.9	20	QM-07
Toluene	0.150	0.00200	"	0.100	ND	150	70-130	41.1	20	QM-07
o-Xylene	0.140	0.00200	"	0.100	ND	140	70-130	49.6	20	QM-07
m,p-Xylene	0.280	0.00400	"	0.200	ND	140	70-130	50.6	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.1	70-130			

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Saturated Paste - Quality Control
Origins Laboratory, Inc.

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

Batch B2C2914 - NO PREP

Blank (B2C2914-BLK1)

Prepared: 03/30/2022 Analyzed: 03/31/2022

Specific Conductance (EC) 0.000800 0.00500 mmhos/cm

Duplicate (B2C2914-DUP1)

Source: Y203677-03

Prepared: 03/30/2022 Analyzed: 03/31/2022

Specific Conductance (EC) 0.170 0.00500 mmhos/cm

0.181 6.14 25

Batch B2C2916 - NO PREP

Duplicate (B2C2916-DUP1)

Source: Y203677-03

Prepared: 03/31/2022 Analyzed: 04/01/2022

pH 7.84 pH Units

7.86 0.255 25

Batch B2C2917 - NO PREP

Blank (B2C2917-BLK1)

Prepared: 03/30/2022 Analyzed: 03/31/2022

Specific Conductance (EC) 0.000900 0.00500 mmhos/cm

Duplicate (B2C2917-DUP1)

Source: Y203708-08

Prepared: 03/30/2022 Analyzed: 03/31/2022

Specific Conductance (EC) 0.526 0.00500 mmhos/cm

0.409 25.1 25 QR-DUP

Batch B2C2921 - NO PREP

Duplicate (B2C2921-DUP1)

Source: Y203708-08

Prepared: 03/31/2022 Analyzed: 04/01/2022

pH 8.15 pH Units

8.32 2.06 25

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L608314 - 3050B										
MSD (L 97403-MSD-L608314)			Source: 97403		Prepared: 04/01/2022 Analyzed: 04/04/2022					
Selenium	5.23	0.103	mg/Kg	4.73	1.97	69	75-125	12.3	80	*
Nickel	20.5	0.0633	"	2.37	12.8	325	75-125	74.4	80	*
Lead	16.4	0.031	"	2.37	12.4	169	75-125	17.7	80	*
Zinc	85	0.534	"	23.7	53.4	133	75-125	63.4	80	*
Silver	0.452	0.0067	"	0.473	0.0269	90	75-125	7.2	80	
Copper	16.9	0.0806	"	2.37	12.2	199	75-125	51.7	80	*
Cadmium	0.776	0.0259	"	0.473	0.303	100	75-125	25.2	80	
Barium	431	0.042	"	4.73	226	NR	75-125	36.8	80	*
Arsenic	9.56	0.0855	"	2.37	6.05	148	75-125	49.8	80	*
MS (L 97403-MS-L608314)			Source: 97403		Prepared: 04/01/2022 Analyzed: 04/04/2022					
Silver	0.486	0.0067	mg/Kg	0.469	0.0269	98	75-125			
Copper	29.2	0.161	"	2.35	12.2	725	75-125			*
Zinc	164	0.534	"	23.5	53.4	472	75-125			*
Lead	19.6	0.031	"	2.35	12.4	307	75-125			*
Cadmium	1	0.0259	"	0.469	0.303	149	75-125			*
Barium	297	0.042	"	4.69	226	NR	75-125			*
Arsenic	15.9	0.0855	"	2.35	6.05	420	75-125			*
Selenium	5.92	0.103	"	4.69	1.97	84	75-125			
Nickel	44.8	0.0633	"	2.35	12.8	NR	75-125			*
LCS (LCS-L608314)			Prepared: 04/01/2022 Analyzed: 04/04/2022							
Barium	4.79	0.042	mg/Kg	5		96	80-120			
Zinc	24.1	0.534	"	25		96	80-120			
Silver	0.495	0.0067	"	0.5		99	80-120			
Selenium	5.16	0.103	"	5		103	80-120			
Nickel	2.53	0.0633	"	2.5		101	80-120			

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

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

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

Batch L608314 - 3050B

LCS (LCS-L608314)

Prepared: 04/01/2022 Analyzed: 04/04/2022

Lead	2.4	0.031	mg/Kg	2.5		96	80-120			
Cadmium	0.475	0.0259	"	0.5		95	80-120			
Arsenic	2.53	0.0855	"	2.5		101	80-120			
Copper	2.4	0.0806	"	2.5		96	80-120			

LRB (LRB-L608314)

Prepared: 04/01/2022 Analyzed: 04/04/2022

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

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

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 L609119 -										
DUP (L 97394-DUP)		Source: Y203708-08			Prepared: Analyzed: 04/06/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		97394	-		0	20	
MS (L 97394-MS)		Source: Y203708-08			Prepared: Analyzed: 04/06/2022					
Chromium, Hexavalent	5.95	0.244	mg/Kg	7.78	97394	76	75-125			
LCS (LCS)					Prepared: Analyzed: 04/06/2022					
Chromium, Hexavalent	6.59	0.244	mg/Kg	8		82	75-125			
LRB (LRB)					Prepared: Analyzed: 04/06/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg							

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L608240 - 3050B										
MSD (L 97393-MSD-L608240)			Source: Y203708-07		Prepared: 04/01/2022 Analyzed: 04/04/2022					
Copper	6.17	0.0806	mg/Kg	2.48	1.75	178	75-125	12.5	80	*
Arsenic	4.21	0.0855	"	2.48	1.06	127	75-125	8.9	80	*
Zinc	41.1	0.534	"	24.8	8.65	131	75-125	4.9	80	*
Lead	9	0.031	"	2.48	3.48	223	75-125	4.8	80	*
Nickel	5.31	0.0633	"	2.48	1.61	149	75-125	0.7	80	*
Selenium	5.18	0.103	"	4.96	0.2	100	75-125	0.9	80	
Cadmium	0.572	0.0259	"	0.496	0.0318	109	75-125	11	80	
Silver	0.534	0.0067	"	0.496	0.0203	104	75-125	1.8	80	
Barium	41.6	0.042	"	4.96	21.3	409	75-125	3.7	80	*
MS (L 97393-MS-L608240)			Source: Y203708-07		Prepared: 04/01/2022 Analyzed: 04/04/2022					
Copper	5.44	0.0806	mg/Kg	2.39	1.75	154	75-125			*
Cadmium	0.512	0.0259	"	0.478	0.0318	100	75-125			
Lead	8.57	0.031	"	2.39	3.48	213	75-125			*
Nickel	5.27	0.0633	"	2.39	1.61	153	75-125			*
Selenium	5.23	0.103	"	4.78	0.2	105	75-125			
Silver	0.524	0.0067	"	0.478	0.0203	105	75-125			
Zinc	39.1	0.534	"	23.9	8.65	127	75-125			*
Barium	43.2	0.042	"	4.78	21.3	458	75-125			*
Arsenic	3.85	0.0855	"	2.39	1.06	117	75-125			
LCS (LCS-L608240)			Prepared: 04/01/2022 Analyzed: 04/04/2022							
Selenium	5.42	0.103	mg/Kg	5		108	80-120			
Silver	0.496	0.0067	"	0.5		99	80-120			
Nickel	2.47	0.0633	"	2.5		99	80-120			
Copper	2.44	0.0806	"	2.5		98	80-120			
Cadmium	0.483	0.0259	"	0.5		97	80-120			

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

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

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

Batch L608240 - 3050B

LCS (LCS-L608240)

Prepared: 04/01/2022 Analyzed: 04/04/2022

Barium	4.91	0.042	mg/Kg	5		98	80-120			
Arsenic	2.67	0.0855	"	2.5		107	80-120			
Lead	2.45	0.031	"	2.5		98	80-120			
Zinc	24.5	0.534	"	25		98	80-120			

LRB (LRB-L608240)

Prepared: 04/01/2022 Analyzed: 04/04/2022

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

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 31403177.022.05.05
Project: KMG - Martindale State 7-36 Wellhead

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 L609117 -

DUP (L 97375-DUP)		Source: 97375			Prepared: Analyzed: 04/06/2022					
Chromium, Hexavalent	ND	0.502	mg/Kg		97375	-		0	20	
MS (L 97375-MS)		Source: 97375			Prepared: Analyzed: 04/06/2022					
Chromium, Hexavalent	9.2	1.26	mg/Kg	8.26	97375	111	75-125			

Origins Laboratory, Inc.



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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.022.05.05

Project: KMG - Martindale State 7-36 Wellhead

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.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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