

TABLE 1
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
POWERS X22-67HN WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	B01@6'	Native-BG01@3'	Native-BG01@6'	Native-BG02@3'	Native-BG02@6'
		12/3/2021	12/3/2021	12/3/2021	12/3/2021	12/3/2021
Photoionization Detector Reading						
PID (ppm)	NA	1.6	0.0	0.0	0.0	0.0
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	<0.200	NA	NA	NA	NA
TPH-DRO* (mg/kg)	500	96.1	NA	NA	NA	NA
TPH-RRO* (mg/kg)	500	136	NA	NA	NA	NA
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	1.75	0.106	0.177	0.115	0.0685
Sodium Adsorption Ratio (SAR)	6	0.905	0.220	0.194	0.0686	0.0783
pH, Lab (pH units)	6-8.3	11.9	7.75	7.34	7.55	7.61
Boron (mg/L)	2	0.356	<0.197	<0.200	<0.199	<0.199
Organic Concentrations in Soil (GPV for Soil)						
Benzene (mg/kg)	0.0026	<0.00200	NA	NA	NA	NA
Toluene (mg/kg)	0.69	<0.00200	NA	NA	NA	NA
Ethylbenzene (mg/kg)	0.78	<0.00200	NA	NA	NA	NA
Xylenes, Total (mg/kg)	9.9	<0.00200	NA	NA	NA	NA
Naphthalene (mg/kg)	0.0038	<0.00380	NA	NA	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	NA	0.364	0.435	0.526	0.409
Barium (mg/Kg)	82	NA	21	23.1	18.6	21.7
Cadmium (mg/Kg)	0.38	NA	<0.25	0.0314	0.0406	0.0347
Chromium, Hexavalent (mg/Kg)	0.00067	NA	<0.5	<0.501	<0.517	<0.5
Copper (mg/Kg)	46	NA	1.4	1.28	1.42	1.36
Lead (mg/Kg)	14	NA	2.18	2.12	2.76	2.36
Nickel (mg/Kg)	26	NA	1.26	1.34	1.31	1.28
Selenium (mg/Kg)	0.26	NA	<0.25	<0.25	<0.25	0.124
Silver (mg/Kg)	0.8	NA	0.0087	0.0102	0.0118	0.0096
Zinc (mg/Kg)	370	NA	6.96	6.42	7.5	6.67

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
POWERS X22-67HN WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	Native-BG03@3'	Native-BG03@6'	Native-BG04@3'	Native-BG04@6'	FL01@3'
		12/3/2021	12/3/2021	12/3/2021	12/3/2021	12/7/2021
Photoionization Detector Reading						
PID (ppm)	NA	0.0	0.0	0.0	0.0	NA
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	NA	NA	NA	NA	<0.200
TPH-DRO* (mg/kg)	500	NA	NA	NA	NA	<25.0
TPH-RRO* (mg/kg)	500	NA	NA	NA	NA	<100
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	0.179	0.107	0.211	0.0494	0.192
Sodium Adsorption Ratio (SAR)	6	0.240	0.155	0.0746	0.0838	0.0994
pH, Lab (pH units)	6-8.3	7.44	6.66	7.84	7.71	8.19
Boron (mg/L)	2	<0.200	<0.200	<0.198	<0.198	0.618
Organic Concentrations in Soil (GPV for Soil)						
Benzene (mg/kg)	0.0026	NA	NA	NA	NA	<0.00200
Toluene (mg/kg)	0.69	NA	NA	NA	NA	<0.00200
Ethylbenzene (mg/kg)	0.78	NA	NA	NA	NA	<0.00200
Xylenes, Total (mg/kg)	9.9	NA	NA	NA	NA	<0.00200
Naphthalene (mg/kg)	0.0038	NA	NA	NA	NA	<0.00380
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	0.417	0.537	0.767	0.362	NA
Barium (mg/Kg)	82	23.5	18.6	42.2	21.4	NA
Cadmium (mg/Kg)	0.38	0.0323	0.0501	0.0461	<0.25	NA
Chromium, Hexavalent (mg/Kg)	0.00067	<0.5	<0.5	<0.5	<0.517	NA
Copper (mg/Kg)	46	1.46	1.38	2.28	0.999	NA
Lead (mg/Kg)	14	2.54	2.81	3.02	1.97	NA
Nickel (mg/Kg)	26	1.32	1.35	1.95	1.23	NA
Selenium (mg/Kg)	0.26	<0.25	<0.25	<0.25	<0.25	NA
Silver (mg/Kg)	0.8	0.0088	0.0115	0.0108	0.0194	NA
Zinc (mg/Kg)	370	6.91	6.85	9.75	5.2	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
POWERS X22-67HN WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	Sep01-Inlet@5'
		12/7/2021
Photoionization Detector Reading		
PID (ppm)	NA	0.1
Total Petroleum Hydrocarbons by USEPA Method 8015D		
TPH-GRO* (mg/kg)	500	<0.200
TPH-DRO* (mg/kg)	500	<25.0
TPH-RRO* (mg/kg)	500	<100
Soil Suitability for Reclamation		
EC (mmhos/cm)	4	0.371
Sodium Adsorption Ratio (SAR)	6	0.682
pH, Lab (pH units)	6-8.3	6.69
Boron (mg/L)	2	<0.198
Organic Concentrations in Soil (GPV for Soil)		
Benzene (mg/kg)	0.0026	<0.00200
Toluene (mg/kg)	0.69	<0.00200
Ethylbenzene (mg/kg)	0.78	<0.00200
Xylenes, Total (mg/kg)	9.9	<0.00200
Naphthalene (mg/kg)	0.0038	<0.00380
Metals in Soils (GPV for Soil)		
Arsenic (mg/Kg)	0.29	NA
Barium (mg/Kg)	82	NA
Cadmium (mg/Kg)	0.38	NA
Chromium, Hexavalent (mg/Kg)	0.00067	NA
Copper (mg/Kg)	46	NA
Lead (mg/Kg)	14	NA
Nickel (mg/Kg)	26	NA
Selenium (mg/Kg)	0.26	NA
Silver (mg/Kg)	0.8	NA
Zinc (mg/Kg)	370	NA

Notes:

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

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

TABLE 2
PHOTOIONIZATION DETECTOR FIELD RESULTS
POWERS X22-67HN WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Screening Location	Location	Date	PID Reading (ppm)
B01@6'	Wellhead Excavation	12/3/2021	1.6
North Wall	Wellhead Excavation	12/3/2021	0.0
East Wall	Wellhead Excavation	12/3/2021	0.0
South Wall	Wellhead Excavation	12/3/2021	0.0
West Wall	Wellhead Excavation	12/3/2021	0.0
PH01	Pothole	12/3/2021	0.0
PH02	Pothole	12/3/2021	0.0
PH03	Pothole	12/3/2021	0.0
PH04	Pothole	12/3/2021	0.0
PH05	Pothole	12/3/2021	0.0
PH06	Pothole	12/3/2021	0.0
PH07	Pothole	12/7/2021	1.2
PH08	Pothole	12/7/2021	0.5
PH09	Pothole	12/7/2021	0.8
PH10	Pothole	12/7/2021	0.4
PH11	Pothole	12/7/2021	0.2
PH12	Pothole	12/7/2021	0.0
PH13	Pothole	12/7/2021	0.3
PH14	Pothole	12/7/2021	0.0
PH15	Pothole	12/7/2021	0.3
FL01@3'	Flowline	12/7/2021	NA
Sep01-Inlet@5'	Separator	12/7/2021	0.1
Native-BG01@3'	Background	12/3/2021	0.0
Native-BG01@6'	Background	12/3/2021	0.0
Native-BG02@3'	Background	12/3/2021	0.0
Native-BG02@6'	Background	12/3/2021	0.0
Native-BG03@3'	Background	12/3/2021	0.0
Native-BG03@6'	Background	12/3/2021	0.0
Native-BG04@3'	Background	12/3/2021	0.0
Native-BG04@6'	Background	12/3/2021	0.0

Notes:

PID - Photoionization Detector

ppm - parts per million



December 15, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada CO 80003

Project Name - KMG - Powers X 22-67HN WH

Project Number - 31403177.202.05

Attached are your analytical results for KMG - Powers X 22-67HN WH received by Origins Laboratory, Inc. December 03, 2021. This project is associated with Origins project number Y112116-01.

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: 31403177.202.05
Project: KMG - Powers X 22-67HN WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@6'	Y112116-01	Soil	December 3, 2021 14:00	12/03/2021 15:40
Native-BG01@3'	Y112116-02	Soil	December 3, 2021 14:10	12/03/2021 15:40
Native-BG01@6'	Y112116-03	Soil	December 3, 2021 14:12	12/03/2021 15:40
Native-BG02@3'	Y112116-04	Soil	December 3, 2021 14:14	12/03/2021 15:40
Native-BG02@6'	Y112116-05	Soil	December 3, 2021 14:16	12/03/2021 15:40
Native-BG03@3'	Y112116-06	Soil	December 3, 2021 14:18	12/03/2021 15:40
Native-BG03@6'	Y112116-07	Soil	December 3, 2021 14:20	12/03/2021 15:40
Native-BG04@3'	Y112116-08	Soil	December 3, 2021 14:22	12/03/2021 15:40
Native-BG04@6'	Y112116-09	Soil	December 3, 2021 14:24	12/03/2021 15:40

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

www.originslaboratory.com

11/11/16

page 1 of 1

ORIGINS
 LABORATORY, INC

Client: WSP
 Address: 4600 W 60th Ave
Arvada CO 80003
 Telephone Number: _____
 Email Address: KMG Group

Project Manager: Brian Sulzberger
 Project Name: Powers X 22-67 HN Wellhead
 Project Number: 31403177.202.05
 Samples Collected By: RS

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	As	Pb	Cd		Hg	Metals
B01e6'	12-3-21	1400	2	X				X				X	X	X	X	X	Guaranteed
Native-B001e3'		1410	2	X				X				X	X	X	X	X	
Native-B001e6'		1412	2	X				X				X	X	X	X	X	
Native-B002e3'		1414	2	X				X				X	X	X	X	X	
Native-B002e6'		1416	2	X				X				X	X	X	X	X	
Native-B003e3'		1418	2	X				X				X	X	X	X	X	
Native-B003e6'		1420	2	X				X				X	X	X	X	X	
Native-B004e3'		1422	2	X				X				X	X	X	X	X	
Native-B004e6'		1424	2	X				X				X	X	X	X	X	
Relinquished By: <u>[Signature]</u>	Date: <u>12-3-21</u>	Time: <u>1540</u>	Time: <u>1540</u>	Received By: <u>[Signature]</u>	Date: <u>12/3/21</u>	Time: <u>1540</u>	Time: <u>1540</u>	Turnaround Time: <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard									
Relinquished By: <u>[Signature]</u>	Date: _____	Time: _____	Time: _____	Received By: _____	Date: _____	Time: _____	Time: _____										

Date Results Needed

Temp Received: 4.0

Origins Laboratory, Inc.

[Signature]

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

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1112110 Client: WSP
 Client Project ID: Powers X22-67 WH
 Checklist Completed by: JH Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 12/3/21 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 (Describe)
 Cooler Number/Temperature: 1 / 4.0 °C 1 °C 1 °C 1 °C
 Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

[Signature] 12/3/21
 Reviewed by (Project Manager) Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

B01@6'
12/3/2021 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y112116-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.356		0.198	mg/L	1	B1L0605	12/06/2021	12/07/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	96.1		25.0	mg/kg	1	B1L0324	12/03/2021	12/03/2021	
Residual Range Organics (C28-C40)	136		100	"	"	"	"	"	

Surrogate: o-Terphenyl	81.3 %		50-150			"	"	"	
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GBTEX+TMBs

Naphthalene	ND		0.00380	mg/kg	1	B1L0325	12/03/2021	12/04/2021	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
Surrogate: Toluene-d8	107 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

B01@6'
12/3/2021 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y112116-01 (Soil)

Metals by Saturated Paste

Calcium	6.26		0.499	meq/L	10	[CALC]	12/03/2021	12/07/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.60		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	11.9			pH Units	1	B1L0604	12/06/2021	12/07/2021	
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SAR by 20B Saturated Paste

SAR	0.905			SAR	1	B1L0315	12/03/2021	12/07/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.75		0.00500	mmhos/cm	1	B1L0601	12/06/2021	12/07/2021	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

Native-BG01@3'
12/3/2021 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y112116-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.197	mg/L	1	B1L0605	12/06/2021	12/07/2021	
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Metals by Saturated Paste

Calcium	ND		0.499	meq/L	10	[CALC]	12/03/2021	12/07/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.75			pH Units	1	B1L0604	12/06/2021	12/07/2021	
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SAR by 20B Saturated Paste

SAR	0.220			SAR	1	B1L0315	12/03/2021	12/07/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.106		0.00500	mmhos/cm	1	B1L0601	12/06/2021	12/07/2021	
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Total Metals by 6020B

Arsenic	0.364	0.0855	0.25	mg/Kg	5	L588647	12/07/2021	12/10/2021	
Barium	21	0.042	0.25	"	"	"	"	"	
Cadmium	ND	0.0259	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

Native-BG01@3'
12/3/2021 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y112116-02 (Soil)

Total Metals by 6020B

Copper	1.4	0.0806	0.25	mg/Kg	5	L588647	12/07/2021	12/10/2021	
Lead	2.18	0.031	0.25	"	"	"	"	"	
Nickel	1.26	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.0087	0.0067	0.25	"	"	"	"	"	J
Zinc	6.96	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L589062	12/03/2021	12/09/2021	
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Origins Laboratory, Inc.



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Jordan A. Merrill, Project Manager

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

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

Native-BG01@6'
12/3/2021 2:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y112116-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.200	mg/L	1	B1L0605	12/06/2021	12/07/2021	
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Metals by Saturated Paste

Calcium	0.803		0.499	meq/L	10	[CALC]	12/03/2021	12/07/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.34			pH Units	1	B1L0604	12/06/2021	12/07/2021	
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SAR by 20B Saturated Paste

SAR	0.194			SAR	1	B1L0315	12/03/2021	12/07/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.177		0.00500	mmhos/cm	1	B1L0603	12/06/2021	12/07/2021	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.501	mg/Kg	1	L589063	12/03/2021	12/09/2021	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

Native-BG01@6'
12/3/2021 2:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y112116-03 (Soil)

Total Metals by 6020B

Arsenic	0.435	0.0855	0.25	mg/Kg	5	L588647	12/07/2021	12/10/2021	
Barium	23.1	0.042	0.25	"	"	"	"	"	
Cadmium	0.0314	0.0259	0.25	"	"	"	"	"	J
Copper	1.28	0.0806	0.25	"	"	"	"	"	
Lead	2.12	0.031	0.25	"	"	"	"	"	
Nickel	1.34	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.0102	0.0067	0.25	"	"	"	"	"	J
Zinc	6.42	0.534	2.5	"	"	"	"	"	

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Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

Native-BG02@3'
12/3/2021 2:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y112116-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.199	mg/L	1	B1L0605	12/06/2021	12/07/2021	
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Metals by Saturated Paste

Calcium	0.689		0.499	meq/L	10	[CALC]	12/06/2021	12/07/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.55			pH Units	1	B1L0604	12/06/2021	12/07/2021	
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SAR by 20B Saturated Paste

SAR	0.0686			SAR	1	B1L0602	12/06/2021	12/07/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.115		0.00500	mmhos/cm	1	B1L0603	12/06/2021	12/07/2021	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.252	0.517	mg/Kg	1	L589063	12/03/2021	12/09/2021	
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Origins Laboratory, Inc.



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Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

Native-BG02@3'
12/3/2021 2:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y112116-04 (Soil)

Total Metals by 6020B

Arsenic	0.526	0.0855	0.25	mg/Kg	5	L588647	12/07/2021	12/10/2021	
Barium	18.6	0.042	0.25	"	"	"	"	"	
Cadmium	0.0406	0.0259	0.25	"	"	"	"	"	J
Copper	1.42	0.0806	0.25	"	"	"	"	"	
Lead	2.76	0.031	0.25	"	"	"	"	"	
Nickel	1.31	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.0118	0.0067	0.25	"	"	"	"	"	J
Zinc	7.5	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

Native-BG02@6'
12/3/2021 2:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y112116-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.199	mg/L	1	B1L0605	12/06/2021	12/07/2021	
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Metals by Saturated Paste

Calcium	ND		0.499	meq/L	10	[CALC]	12/06/2021	12/07/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.61			pH Units	1	B1L0604	12/06/2021	12/07/2021	
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SAR by 20B Saturated Paste

SAR	0.0783			SAR	1	B1L0602	12/06/2021	12/07/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0685		0.00500	mmhos/cm	1	B1L0603	12/06/2021	12/07/2021	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L589063	12/03/2021	12/09/2021	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

Native-BG02@6'
12/3/2021 2:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y112116-05 (Soil)

Total Metals by 6020B

Arsenic	0.409	0.0855	0.25	mg/Kg	5	L588647	12/07/2021	12/10/2021	
Barium	21.7	0.042	0.25	"	"	"	"	"	
Cadmium	0.0347	0.0259	0.25	"	"	"	"	"	J
Copper	1.36	0.0806	0.25	"	"	"	"	"	
Lead	2.36	0.031	0.25	"	"	"	"	"	
Nickel	1.28	0.0633	0.25	"	"	"	"	"	
Selenium	0.124	0.103	0.25	"	"	"	"	"	J
Silver	0.0096	0.0067	0.25	"	"	"	"	"	J
Zinc	6.67	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

Native-BG03@3'
12/3/2021 2:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y112116-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.200	mg/L	1	B1L0606	12/06/2021	12/07/2021	
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Metals by Saturated Paste

Calcium	0.773		0.499	meq/L	10	[CALC]	12/06/2021	12/07/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.44			pH Units	1	B1L0604	12/06/2021	12/07/2021	
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SAR by 20B Saturated Paste

SAR	0.240			SAR	1	B1L0602	12/06/2021	12/07/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.179		0.00500	mmhos/cm	1	B1L0603	12/06/2021	12/07/2021	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L589063	12/03/2021	12/09/2021	
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Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
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Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

Native-BG03@3'
12/3/2021 2:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y112116-06 (Soil)

Total Metals by 6020B

Arsenic	0.417	0.0855	0.25	mg/Kg	5	L588647	12/07/2021	12/10/2021	
Barium	23.5	0.042	0.25	"	"	"	"	"	
Cadmium	0.0323	0.0259	0.25	"	"	"	"	"	J
Copper	1.46	0.0806	0.25	"	"	"	"	"	
Lead	2.54	0.031	0.25	"	"	"	"	"	
Nickel	1.32	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.0088	0.0067	0.25	"	"	"	"	"	J
Zinc	6.91	0.534	2.5	"	"	"	"	"	

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Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

Native-BG03@6'
12/3/2021 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y112116-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.200	mg/L	1	B1L0606	12/06/2021	12/07/2021	
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Metals by Saturated Paste

Calcium	ND		0.499	meq/L	10	[CALC]	12/06/2021	12/07/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	6.66			pH Units	1	B1L0604	12/06/2021	12/07/2021	
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SAR by 20B Saturated Paste

SAR	0.155			SAR	1	B1L0602	12/06/2021	12/07/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.107		0.00500	mmhos/cm	1	B1L0603	12/06/2021	12/07/2021	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L589063	12/03/2021	12/09/2021	
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Origins Laboratory, Inc.



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Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

Native-BG03@6'
12/3/2021 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y112116-07 (Soil)

Total Metals by 6020B

Arsenic	0.537	0.0855	0.25	mg/Kg	5	L588647	12/07/2021	12/10/2021	
Barium	18.6	0.042	0.25	"	"	"	"	"	
Cadmium	0.0501	0.0259	0.25	"	"	"	"	"	J
Copper	1.38	0.0806	0.25	"	"	"	"	"	
Lead	2.81	0.031	0.25	"	"	"	"	"	
Nickel	1.35	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.0115	0.0067	0.25	"	"	"	"	"	J
Zinc	6.85	0.534	2.5	"	"	"	"	"	

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Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

Native-BG04@3'
12/3/2021 2:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y112116-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.198	mg/L	1	B1L0606	12/06/2021	12/07/2021	
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Metals by Saturated Paste

Calcium	1.40		0.499	meq/L	10	[CALC]	12/06/2021	12/07/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.84			pH Units	1	B1L0604	12/06/2021	12/07/2021	
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SAR by 20B Saturated Paste

SAR	0.0746			SAR	1	B1L0602	12/06/2021	12/07/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.211		0.00500	mmhos/cm	1	B1L0603	12/06/2021	12/07/2021	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L589063	12/03/2021	12/09/2021	
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Origins Laboratory, Inc.



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WSP USA
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Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

Native-BG04@3'
12/3/2021 2:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y112116-08 (Soil)

Total Metals by 6020B

Arsenic	0.767	0.0855	0.25	mg/Kg	5	L588647	12/07/2021	12/10/2021	
Barium	42.2	0.042	0.25	"	"	"	"	"	
Cadmium	0.0461	0.0259	0.25	"	"	"	"	"	J
Copper	2.28	0.0806	0.25	"	"	"	"	"	
Lead	3.02	0.031	0.25	"	"	"	"	"	
Nickel	1.95	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.0108	0.0067	0.25	"	"	"	"	"	J
Zinc	9.75	0.534	2.5	"	"	"	"	"	

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 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

Native-BG04@6'
12/3/2021 2:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y112116-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.198	mg/L	1	B1L0606	12/06/2021	12/07/2021	
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Metals by Saturated Paste

Calcium	ND		0.499	meq/L	10	[CALC]	12/06/2021	12/07/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.71			pH Units	1	B1L0604	12/06/2021	12/07/2021	
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SAR by 20B Saturated Paste

SAR	0.0838			SAR	1	B1L0602	12/06/2021	12/07/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0494		0.00500	mmhos/cm	1	B1L0603	12/06/2021	12/07/2021	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.252	0.517	mg/Kg	1	L589063	12/03/2021	12/09/2021	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

Native-BG04@6'
12/3/2021 2:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y112116-09 (Soil)

Total Metals by 6020B

Arsenic	0.362	0.0855	0.25	mg/Kg	5	L588647	12/07/2021	12/10/2021	
Barium	21.4	0.042	0.25	"	"	"	"	"	
Cadmium	ND	0.0259	0.25	"	"	"	"	"	
Copper	0.999	0.0806	0.25	"	"	"	"	"	
Lead	1.97	0.031	0.25	"	"	"	"	"	
Nickel	1.23	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.0194	0.0067	0.25	"	"	"	"	"	J
Zinc	5.2	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

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 B1L0324 - EPA 3550B										
Blank (B1L0324-BLK1)										
					Prepared: 12/03/2021 Analyzed: 12/03/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		97.4	50-150			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

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 B1L0324 - EPA 3550B

LCS (B1L0324-BS1)

Prepared: 12/03/2021 Analyzed: 12/03/2021

Diesel (C10-C28)	865	50.0	mg/kg	1000		86.5	70-130			
Residual Range Organics (C28-C40)	1060	200	"	1000		106	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.6	50-150			

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

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 B1L0324 - EPA 3550B

Matrix Spike (B1L0324-MS1)	Source: Y112112-01			Prepared: 12/03/2021 Analyzed: 12/03/2021						
Diesel (C10-C28)	886	50.0	mg/kg	1000	ND	88.6	70-130			
Residual Range Organics (C28-C40)	1100	200	"	1000	ND	110	70-130			
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

Origins Laboratory, Inc.



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 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

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 B1L0324 - EPA 3550B

Matrix Spike Dup (B1L0324-MSD1)	Source: Y112112-01			Prepared: 12/03/2021 Analyzed: 12/03/2021						
Diesel (C10-C28)	891	50.0	mg/kg	1000	ND	89.1	70-130	0.558	35	
Residual Range Organics (C28-C40)	1100	200	"	1000	ND	110	70-130	0.242	35	
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

Origins Laboratory, Inc.



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WSP USA
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Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

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 B1L0325 - EPA 5030 (soil)

Blank (B1L0325-BLK1)

Prepared: 12/03/2021 Analyzed: 12/03/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	106		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	104		70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

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 B1L0325 - EPA 5030 (soil)

LCS (B1L0325-BS1)

Prepared: 12/03/2021 Analyzed: 12/03/2021

1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
Naphthalene	0.117	0.0100	"	0.100		117	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.0871	0.00200	"	0.100		87.1	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.216	0.00400	"	0.200		108	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

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 B1L0325 - EPA 5030 (soil)

Matrix Spike (B1L0325-MS1)	Source: Y112111-01			Prepared: 12/03/2021 Analyzed: 12/03/2021						
1,2,4-Trimethylbenzene	0.0523	0.00200	mg/kg	0.100	0.0293	23.0	70-130			QM-07
Naphthalene	0.118	0.0100	"	0.100	0.0332	84.6	70-130			
1,3,5-Trimethylbenzene	0.0505	0.00200	"	0.100	ND	50.5	70-130			QM-07
Benzene	0.0698	0.00200	"	0.100	ND	69.8	70-130			QM-07
Ethylbenzene	0.0732	0.00200	"	0.100	ND	73.2	70-130			
m,p-Xylene	0.137	0.00400	"	0.200	ND	68.4	70-130			QM-07
o-Xylene	0.0729	0.00200	"	0.100	ND	72.9	70-130			
Toluene	0.0757	0.00200	"	0.100	ND	75.7	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	0.19		"	0.125		150	70-130			QM-07

Origins Laboratory, Inc.



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WSP USA
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 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

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 B1L0325 - EPA 5030 (soil)

Matrix Spike Dup (B1L0325-MSD1)	Source: Y112111-01			Prepared: 12/03/2021 Analyzed: 12/03/2021						
1,2,4-Trimethylbenzene	0.0657	0.00200	mg/kg	0.100	0.0293	36.4	70-130	22.8	20	QM-07
Naphthalene	0.126	0.0100	"	0.100	0.0332	93.0	70-130	6.90	20	
1,3,5-Trimethylbenzene	0.0633	0.00200	"	0.100	ND	63.3	70-130	22.5	20	QM-07
Benzene	0.0757	0.00200	"	0.100	ND	75.7	70-130	8.03	20	
Ethylbenzene	0.0850	0.00200	"	0.100	ND	85.0	70-130	14.9	20	
m,p-Xylene	0.160	0.00400	"	0.200	ND	80.2	70-130	15.9	20	
o-Xylene	0.0833	0.00200	"	0.100	ND	83.3	70-130	13.4	20	
Toluene	0.0841	0.00200	"	0.100	ND	84.1	70-130	10.4	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.19		"	0.125		152	70-130			QM-07

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

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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Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1L0601 - NO PREP

Blank (B1L0601-BLK1)

Prepared: 12/06/2021 Analyzed: 12/07/2021

Specific Conductance (EC) 0.00150 0.00500 mmhos/cm

Duplicate (B1L0601-DUP1)

Source: Y111515-13

Prepared: 12/06/2021 Analyzed: 12/07/2021

Specific Conductance (EC) 0.425 0.00500 mmhos/cm 0.408 3.89 25

Batch B1L0603 - NO PREP

Blank (B1L0603-BLK1)

Prepared: 12/06/2021 Analyzed: 12/07/2021

Specific Conductance (EC) 0.00460 0.00500 mmhos/cm

Duplicate (B1L0603-DUP1)

Source: Y112116-04

Prepared: 12/06/2021 Analyzed: 12/07/2021

Specific Conductance (EC) 0.110 0.00500 mmhos/cm 0.115 4.99 25

Batch B1L0604 - NO PREP

Duplicate (B1L0604-DUP1)

Source: Y112116-04

Prepared: 12/06/2021 Analyzed: 12/07/2021

pH 6.92 pH Units 7.55 8.71 25

Origins Laboratory, Inc.



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WSP USA
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Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

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 L589063 -										
DUP (L 92267-DUP)		Source: Y112116-03			Prepared: Analyzed: 12/09/2021					
Chromium, Hexavalent	ND	0.247	mg/Kg		<0.508		-	0	20	
MS (L 92267-MS)		Source: Y112116-03			Prepared: Analyzed: 12/09/2021					
Chromium, Hexavalent	5.81	0.244	mg/Kg	7.74	<0.244	75	75-125			
LCS (LCS)		Prepared: Analyzed: 12/09/2021								
Chromium, Hexavalent	6.53	0.244	mg/Kg	8		82	75-125			
LRB (LRB)		Prepared: Analyzed: 12/09/2021								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L588647 - 3050B

MSD (L 92273-MSD-L588647)		Source: Y112116-09			Prepared: 12/07/2021 Analyzed: 12/14/2021					
Selenium	4.06	0.103	mg/Kg	4.82	<0.103	84	75-125	3.3	80	
Silver	0.486	0.0067	"	0.482	0.0194	101	75-125	4.6	80	
Nickel	4.08	0.0633	"	2.41	1.23	118	75-125	12.5	80	
Lead	4.41	0.031	"	2.41	1.97	101	75-125	6.5	80	
Copper	3.69	0.0806	"	2.41	0.999	112	75-125	8.4	80	
Cadmium	0.49	0.0259	"	0.482	<0.0259	102	75-125	3.7	80	
Barium	26.4	0.042	"	4.82	21.4	104	75-125	0.3	80	
Arsenic	2.61	0.0855	"	2.41	0.362	93	75-125	7.1	80	
Zinc	30	0.534	"	24.1	5.2	103	75-125	6.1	80	

MS (L 92273-MS-L588647)		Source: Y112116-09			Prepared: 12/07/2021 Analyzed: 12/14/2021					
Selenium	4.2	0.103	mg/Kg	4.63	<0.103	91	75-125			
Silver	0.464	0.0067	"	0.463	0.0194	100	75-125			
Arsenic	2.43	0.0855	"	2.31	0.362	89	75-125			
Barium	26.5	0.042	"	4.63	21.4	110	75-125			
Cadmium	0.472	0.0259	"	0.463	<0.0259	102	75-125			
Copper	3.39	0.0806	"	2.31	0.999	103	75-125			
Nickel	3.6	0.0633	"	2.31	1.23	102	75-125			
Zinc	28.2	0.534	"	23.1	5.2	99	75-125			
Lead	4.13	0.031	"	2.31	1.97	93	75-125			

LCS (LCS-L588647)		Prepared: 12/07/2021 Analyzed: 12/10/2021								
Barium	4.92	0.042	mg/Kg	5		98	80-120			
Selenium	4.12	0.103	"	5		82	80-120			
Cadmium	0.47	0.0259	"	0.5		94	80-120			
Zinc	22.9	0.534	"	25		92	80-120			
Arsenic	2.39	0.0855	"	2.5		96	80-120			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L588647 - 3050B

LCS (LCS-L588647)

Prepared: 12/07/2021 Analyzed: 12/10/2021

Silver	0.474	0.0067	mg/Kg	0.5		95	80-120			
Nickel	2.27	0.0633	"	2.5		91	80-120			
Lead	2.45	0.031	"	2.5		98	80-120			
Copper	2.33	0.0806	"	2.5		93	80-120			

LRB (LRB-L588647)

Prepared: 12/07/2021 Analyzed: 12/10/2021

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

Origins Laboratory, Inc.



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WSP USA
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 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

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 L589062 -										
DUP (L 92241-DUP)		Source: 92241			Prepared: Analyzed: 12/09/2021					
Chromium, Hexavalent	ND	0.247	mg/Kg		<0.508		-	0	20	
MS (L 92241-MS)		Source: 92241			Prepared: Analyzed: 12/09/2021					
Chromium, Hexavalent	1.97	0.246	mg/Kg	8.09	<0.246	24	75-125			*

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

Brian Sulzberger
Project Number: 31403177.202.05
Project: KMG - Powers X 22-67HN WH

Notes and Definitions

U Sample is Non-Detect.

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

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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

Jordan A. Merrill, Project Manager

December 13, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO 80003

Project Name - KMG - Powers X 22-67HN WH

Project Number - 31403177.202.05

Attached are your analytical results for KMG - Powers X 22-67HN WH received by Origins Laboratory, Inc. December 07, 2021. This project is associated with Origins project number Y112183-01.

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

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

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

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

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

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



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

Brian Sulzberger
Project Number: 31403177.202.05
Project: KMG - Powers X 22-67HN WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01@3'	Y112183-01	Soil	December 7, 2021 15:50	12/07/2021 17:04
Sep01-Inlet@5'	Y112183-02	Soil	December 7, 2021 15:55	12/07/2021 17:04

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

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 page 1 of 1
ORIGINS
 LABORATORY, INC

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

Project Manager: Brian Sulzberger
 Project Name: Powers X 22-67 HN Wellhead
 Project Number: 31403177.202
 Samples Collected By: Hyle Mathene

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	TPH	PH, EC, SD	Boron	
FLO103	12/7/21	1550	2	X				X				X	X	X	General Water Protection 1
Sample - Inoculated	12/7/21	1555	2	X				X				X	X	X	2
															3
															4
															5
															6
															7
															8
															9
															10
Relinquished By: <u>Hyle Mathene</u>	Date: <u>12/7/21</u>	Time: <u>1704</u>	Received By: <u>[Signature]</u>	Date: <u>12/7/21</u>	Time: <u>704</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard									
Relinquished By:	Date:	Time:	received By:	Date:	Time:										

Temp Received: 8.3 Date Results Needed

Origins Laboratory, Inc.


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

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4112183

Client: WSP
 Client Project ID: PAVER 22-67 WH

Checklist Completed by: KH

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

Date/time completed: 12/7/11

Airbill #: KA

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

Cooler Number/Temperature: 1 B.3 c / _____ °C / _____ °C (Describe)

Thermometer ID: 1003

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 12/7/11

Origins Laboratory, Inc.

[Signature]

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

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

FL01@3'
12/7/2021 3:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y112183-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.618	0.199	mg/L	1	B1L0826	KAP	12/08/2021	12/09/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1L0720	ZZZ	12/07/2021	12/08/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: <i>o</i> -Terphenyl	123 %	50-150			"	"	"	"	
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GBTEX+TMBs

Naphthalene	ND	0.00380	mg/kg	1	B1L0718	ZZZ	12/07/2021	12/08/2021	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.5 %	70-130			"	"	"	"	

Metals by Saturated Paste

Calcium	1.33	0.499	meq/L	10	[CALC]	KAP	12/08/2021	12/09/2021	
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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

FL01@3'
12/7/2021 3:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y112183-01 (Soil)

Metals by Saturated Paste

Magnesium	ND	0.823	meq/L	10	[CALC]	KAP	12/08/2021	12/09/2021	
Sodium	ND	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.19		pH Units	1	B1L0806	ACC	12/08/2021	12/09/2021	
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SAR by 20B Saturated Paste

SAR	0.0994		SAR	1	B1L0804	KAP	12/08/2021	12/09/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.192	0.00500	mmhos/cm	1	B1L0808	ACC	12/08/2021	12/09/2021	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

Sep01-Inlet@5'
12/7/2021 3:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y112183-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.198	mg/L	1	B1L0826	KAP	12/08/2021	12/09/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1L0720	ZZZ	12/07/2021	12/08/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: <i>o</i> -Terphenyl	112 %	50-150			"	"	"	"	
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GBTEX+TMBs

Naphthalene	ND	0.00380	mg/kg	1	B1L0718	ZZZ	12/07/2021	12/08/2021	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.3 %	70-130			"	"	"	"	

Metals by Saturated Paste

Calcium	1.60	0.499	meq/L	10	[CALC]	KAP	12/08/2021	12/09/2021	
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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

Sep01-Inlet@5'
12/7/2021 3:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y112183-02 (Soil)

Metals by Saturated Paste

Magnesium	ND	0.823	meq/L	10	[CALC]	KAP	12/08/2021	12/09/2021	
Sodium	0.705	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	6.69		pH Units	1	B1L0806	ACC	12/08/2021	12/09/2021	
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SAR by 20B Saturated Paste

SAR	0.682		SAR	1	B1L0804	KAP	12/08/2021	12/09/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.371	0.00500	mmhos/cm	1	B1L0808	ACC	12/08/2021	12/09/2021	
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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

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 B1L0718 - EPA 5030 (soil)

Blank (B1L0718-BLK1)

Prepared: 12/07/2021 Analyzed: 12/07/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.1	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

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 B1L0718 - EPA 5030 (soil)

LCS (B1L0718-BS1)

Prepared: 12/07/2021 Analyzed: 12/07/2021

1,2,4-Trimethylbenzene	0.0945	0.00200	mg/kg	0.100		94.5	70-130			
Naphthalene	0.108	0.0100	"	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.0948	0.00200	"	0.100		94.8	70-130			
Benzene	0.110	0.00200	"	0.100		110	70-130			
Ethylbenzene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.204	0.00400	"	0.200		102	70-130			
o-Xylene	0.104	0.00200	"	0.100		104	70-130			
Toluene	0.108	0.00200	"	0.100		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.4	70-130			

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WSP USA
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Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

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 B1L0718 - EPA 5030 (soil)

Matrix Spike (B1L0718-MS1)	Source: Y112174-01			Prepared: 12/07/2021 Analyzed: 12/07/2021						
1,2,4-Trimethylbenzene	0.0461	0.00200	mg/kg	0.100	ND	46.1	70-130			QM-07
Naphthalene	0.0533	0.0100	"	0.100	ND	53.3	70-130			QM-07
1,3,5-Trimethylbenzene	0.0455	0.00200	"	0.100	ND	45.5	70-130			QM-07
Benzene	0.0592	0.00200	"	0.100	ND	59.2	70-130			QM-07
Ethylbenzene	0.0511	0.00200	"	0.100	ND	51.1	70-130			QM-07
m,p-Xylene	0.102	0.00400	"	0.200	ND	50.9	70-130			QM-07
o-Xylene	0.0522	0.00200	"	0.100	ND	52.2	70-130			QM-07
Toluene	0.0558	0.00200	"	0.100	ND	55.8	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.6	70-130			

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WSP USA
 4600 W. 60th Ave.
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Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

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 B1L0718 - EPA 5030 (soil)

Matrix Spike Dup (B1L0718-MSD1)	Source: Y112174-01			Prepared: 12/07/2021 Analyzed: 12/07/2021						
1,2,4-Trimethylbenzene	0.0129	0.00200	mg/kg	0.100	ND	12.9	70-130	113	20	QM-07
Naphthalene	0.0167	0.0100	"	0.100	ND	16.7	70-130	104	20	QM-07
1,3,5-Trimethylbenzene	0.0122	0.00200	"	0.100	ND	12.2	70-130	115	20	QM-07
Benzene	0.0172	0.00200	"	0.100	ND	17.2	70-130	110	20	QM-07
Ethylbenzene	0.0133	0.00200	"	0.100	ND	13.3	70-130	118	20	QM-07
m,p-Xylene	0.0264	0.00400	"	0.200	ND	13.2	70-130	118	20	QM-07
o-Xylene	0.0141	0.00200	"	0.100	ND	14.1	70-130	115	20	QM-07
Toluene	0.0153	0.00200	"	0.100	ND	15.3	70-130	114	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.2	70-130			

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Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

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 B1L0720 - EPA 3550B										
Blank (B1L0720-BLK1)										
					Prepared: 12/07/2021 Analyzed: 12/07/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	35		"	24.9		140	50-150			

Origins Laboratory, Inc.



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WSP USA
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Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

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 B1L0720 - EPA 3550B

LCS (B1L0720-BS1)

Prepared: 12/07/2021 Analyzed: 12/07/2021

Diesel (C10-C28)	528	25.0	mg/kg	500		106	70-130			
Residual Range Organics (C28-C40)	567	100	"	500		113	70-130			
Surrogate: o-Terphenyl	30		"	24.9		122	50-150			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

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 B1L0720 - EPA 3550B

Matrix Spike (B1L0720-MS1)	Source: Y112174-01			Prepared: 12/07/2021 Analyzed: 12/07/2021						
Diesel (C10-C28)	479	25.0	mg/kg	500	ND	95.8	70-130			
Residual Range Organics (C28-C40)	514	100	"	500	ND	103	70-130			
Surrogate: o-Terphenyl	27		"	24.9		107	50-150			

Origins Laboratory, Inc.



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 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.202.05
 Project: KMG - Powers X 22-67HN WH

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 B1L0720 - EPA 3550B

Matrix Spike Dup (B1L0720-MSD1)	Source: Y112174-01		Prepared: 12/07/2021 Analyzed: 12/07/2021							
Diesel (C10-C28)	512	25.0	mg/kg	500	ND	102	70-130	6.75	35	
Residual Range Organics (C28-C40)	550	100	"	500	ND	110	70-130	6.83	35	
Surrogate: o-Terphenyl	28		"	24.9		114	50-150			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.202.05
Project: KMG - Powers X 22-67HN WH

Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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Jordan A. Merrill, Project Manager