



January 20, 2023

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Sakata Red W 6-1A

Project Number - [none]

Attached are your analytical results for KMG - Sakata Red W 6-1A received by Origins Laboratory, Inc. January 04, 2023. This project is associated with Origins project number Y301035-01.

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

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

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

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

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

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



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Sakata Red W 6-1A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	Y301035-01	Soil	January 4, 2023 9:40	01/04/2023 16:00
FL-B01@5'	Y301035-02	Soil	January 4, 2023 9:42	01/04/2023 16:00
WH-BG01@3'	Y301035-03	Soil	January 4, 2023 10:00	01/04/2023 16:00
WH-BG01@6'	Y301035-04	Soil	January 4, 2023 10:02	01/04/2023 16:00
WH-BG02@3'	Y301035-05	Soil	January 4, 2023 10:05	01/04/2023 16:00
WH-BG02@6'	Y301035-06	Soil	January 4, 2023 10:07	01/04/2023 16:00

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 9301035

Client: Eagle
 Client Project ID: Sakata Red W6-1A

Checklist Completed by: EHS

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: 25

Date/time completed: 1/4/12

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

Cooler Number/Temperature: 1103 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: T004

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

1/4/12
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

WH-B01@6'
1/4/2023 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301035-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.221		0.0999	mg/L	1	B3A0503	01/05/2023	01/06/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3A0414	01/04/2023	01/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	74.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3A0415	01/04/2023	01/04/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

WH-B01@6'

1/4/2023 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301035-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	94.0 %		70-130			B3A04 15	01/04/2023	01/04/2023	
Surrogate: Toluene-d8	87.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	84.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.29		0.499	meq/L	10	[CALC]	01/05/2023	01/06/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.91		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	9.51			pH Units	1	B3A0508	01/05/2023	01/06/2023	
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SAR by 20B Saturated Paste

SAR	2.22			SAR	1	B3A0504	01/05/2023	01/06/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.564		0.00500	mmhos/cm	1	B3A0508	01/05/2023	01/06/2023	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

FL-B01@5'

1/4/2023 9:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301035-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.234		0.101	mg/L	1	B3A0607	01/06/2023	01/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3A0414	01/04/2023	01/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	74.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3A0415	01/04/2023	01/04/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

FL-B01@5'

1/4/2023 9:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y301035-02 (Soil)**

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	93.4 %		70-130			B3A04 15	01/04/2023	01/04/2023	
Surrogate: Toluene-d8	89.0 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	85.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.10		0.499	meq/L	10	[CALC]	01/05/2023	01/06/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.46		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.25			pH Units	1	B3A0508	01/05/2023	01/06/2023	
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SAR by 20B Saturated Paste

SAR	1.66			SAR	1	B3A0504	01/05/2023	01/06/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.514		0.00500	mmhos/cm	1	B3A0508	01/05/2023	01/06/2023	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

WH-BG01@3'
1/4/2023 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301035-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.243		0.0995	mg/L	1	B3A0607	01/06/2023	01/09/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	15.6		0.499	meq/L	10	[CALC]	01/05/2023	01/06/2023	
Magnesium	4.30		0.823	"	"	"	"	"	
Sodium	3.04		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.53			pH Units	1	B3A0508	01/05/2023	01/06/2023	
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SAR by 20B Saturated Paste

SAR	0.964			SAR	1	B3A0504	01/05/2023	01/06/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.71		0.00500	mmhos/cm	1	B3A0508	01/05/2023	01/06/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.81		0.0987	mg/kg	10	B3A1323	01/13/2023	01/18/2023	
Barium	116		9.87	"	"	"	"	"	
Cadmium	0.218		0.0987	"	"	"	"	"	
Copper	ND		9.87	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

WH-BG01@3'

1/4/2023 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301035-03 (Soil)

Table 915 metals by EPA 6020B

Lead	ND		9.87	mg/kg	10	B3A1323	01/13/2023	01/18/2023	U
Nickel	ND		9.87	"	"	"	"	"	U
Selenium	0.121		0.0987	"	"	"	"	"	
Silver	ND		0.0987	"	"	"	"	"	U
Zinc	ND		98.7	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L659149	01/04/2023	01/18/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

WH-BG01@6'
1/4/2023 10:02:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301035-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0981	mg/L	1	B3A0607	01/06/2023	01/09/2023	U
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Metals by Saturated Paste by EPA 6010

Calcium	6.59		0.499	meq/L	10	[CALC]	01/05/2023	01/06/2023	
Magnesium	2.98		0.823	"	"	"	"	"	
Sodium	2.41		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.74			pH Units	1	B3A0508	01/05/2023	01/06/2023	
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SAR by 20B Saturated Paste

SAR	1.10			SAR	1	B3A0504	01/05/2023	01/06/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.35		0.00500	mmhos/cm	1	B3A0508	01/05/2023	01/06/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.04		0.0938	mg/kg	10	B3A1323	01/13/2023	01/18/2023	
Barium	82.9		9.38	"	"	"	"	"	
Cadmium	ND		0.0938	"	"	"	"	"	U
Copper	ND		9.38	"	"	"	"	"	U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

WH-BG01@6'

1/4/2023 10:02:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301035-04 (Soil)

Table 915 metals by EPA 6020B

Lead	ND		9.38	mg/kg	10	B3A1323	01/13/2023	01/18/2023	U
Nickel	ND		9.38	"	"	"	"	"	U
Selenium	ND		0.0938	"	"	"	"	"	U
Silver	ND		0.0938	"	"	"	"	"	U
Zinc	ND		93.8	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.501	mg/Kg	1	L659149	01/04/2023	01/18/2023	
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Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

WH-BG02@3'
1/4/2023 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301035-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.199		0.100	mg/L	1	B3A0607	01/06/2023	01/09/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	2.05		0.499	meq/L	10	[CALC]	01/05/2023	01/06/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.74		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.02			pH Units	1	B3A0508	01/05/2023	01/06/2023	
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SAR by 20B Saturated Paste

SAR	2.29			SAR	1	B3A0504	01/05/2023	01/06/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.618		0.00500	mmhos/cm	1	B3A0508	01/05/2023	01/06/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.41		0.0937	mg/kg	10	B3A1323	01/13/2023	01/18/2023	
Barium	119		9.37	"	"	"	"	"	
Cadmium	0.202		0.0937	"	"	"	"	"	
Copper	ND		9.37	"	"	"	"	"	U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

WH-BG02@3'

1/4/2023 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301035-05 (Soil)

Table 915 metals by EPA 6020B

Lead	9.91		9.37	mg/kg	10	B3A1323	01/13/2023	01/18/2023	
Nickel	ND		9.37	"	"	"	"	"	U
Selenium	0.114		0.0937	"	"	"	"	"	
Silver	ND		0.0937	"	"	"	"	"	U
Zinc	ND		93.7	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.251	0.516	mg/Kg	1	L659149	01/04/2023	01/18/2023	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

WH-BG02@6'

1/4/2023 10:07:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301035-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.119		0.0980	mg/L	1	B3A0607	01/06/2023	01/09/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	1.80		0.499	meq/L	10	[CALC]	01/05/2023	01/06/2023	
Magnesium	0.869		0.823	"	"	"	"	"	
Sodium	2.23		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.07			pH Units	1	B3A0508	01/05/2023	01/06/2023	
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SAR by 20B Saturated Paste

SAR	1.93			SAR	1	B3A0504	01/05/2023	01/06/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.539		0.00500	mmhos/cm	1	B3A0508	01/05/2023	01/06/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.18		0.0915	mg/kg	10	B3A1323	01/13/2023	01/18/2023	
Barium	136		9.15	"	"	"	"	"	
Cadmium	0.120		0.0915	"	"	"	"	"	
Copper	9.59		9.15	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

WH-BG02@6'

1/4/2023 10:07:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301035-06 (Soil)

Table 915 metals by EPA 6020B

Lead	10.4		9.15	mg/kg	10	B3A1323	01/13/2023	01/18/2023	
Nickel	ND		9.15	"	"	"	"	"	U
Selenium	0.131		0.0915	"	"	"	"	"	
Silver	ND		0.0915	"	"	"	"	"	U
Zinc	ND		91.5	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L659149	01/04/2023	01/18/2023	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A0414 - EPA 3580

Blank (B3A0414-BLK1)

Prepared: 01/04/2023 Analyzed: 01/04/2023

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		82.6	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A0414 - EPA 3580

LCS (B3A0414-BS1)

Prepared: 01/04/2023 Analyzed: 01/04/2023

Diesel (C10-C28)	941	50.0	mg/kg	1000		94.1	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	70-130			
Surrogate: o-Terphenyl	41		"	49.8		81.6	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A0414 - EPA 3580

Matrix Spike (B3A0414-MS1)	Source: Y301035-01			Prepared: 01/04/2023 Analyzed: 01/04/2023						
Diesel (C10-C28)	942	50.0	mg/kg	1000	ND	94.2	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	70-130			
Surrogate: o-Terphenyl	36		"	49.8		71.7	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A0414 - EPA 3580

Matrix Spike Dup (B3A0414-MSD1)	Source: Y301035-01		Prepared: 01/04/2023 Analyzed: 01/04/2023							
Diesel (C10-C28)	943	50.0	mg/kg	1000	ND	94.3	70-130	0.0684	35	
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	70-130	0.264	35	
Surrogate: o-Terphenyl	36		"	49.8		71.5	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A0415 - EPA 5030 (soil)

Blank (B3A0415-BLK1)

Prepared: 01/04/2023 Analyzed: 01/04/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	93.7		70-130			
Surrogate: Toluene-d8	0.11		"	0.125	87.3		70-130			
Surrogate: 4-Bromofluorobenzene	0.10		"	0.125	83.3		70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A0415 - EPA 5030 (soil)

LCS (B3A0415-BS1)

Prepared: 01/04/2023 Analyzed: 01/04/2023

1,2,4-Trimethylbenzene	0.0996	0.00200	mg/kg	0.100		99.6	70-130			
1,3,5-Trimethylbenzene	0.0969	0.00200	"	0.100		96.9	70-130			
Benzene	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.0941	0.00200	"	0.100		94.1	70-130			
Naphthalene	0.119	0.00380	"	0.100		119	70-130			
Toluene	0.0988	0.00200	"	0.100		98.8	70-130			
o-Xylene	0.0938	0.00200	"	0.100		93.8	70-130			
m,p-Xylene	0.180	0.00400	"	0.200		90.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.0	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		88.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		85.1	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A0415 - EPA 5030 (soil)

Matrix Spike (B3A0415-MS1)	Source: Y301035-01		Prepared: 01/04/2023 Analyzed: 01/04/2023							
1,2,4-Trimethylbenzene	0.0941	0.00200	mg/kg	0.100	ND	94.1	70-130			
1,3,5-Trimethylbenzene	0.0936	0.00200	"	0.100	ND	93.6	70-130			
Benzene	0.0988	0.00200	"	0.100	ND	98.8	70-130			
Ethylbenzene	0.0890	0.00200	"	0.100	ND	89.0	70-130			
Naphthalene	0.102	0.00380	"	0.100	ND	102	70-130			
Toluene	0.0945	0.00200	"	0.100	ND	94.5	70-130			
o-Xylene	0.0880	0.00200	"	0.100	ND	88.0	70-130			
m,p-Xylene	0.167	0.00400	"	0.200	0.00178	82.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.3	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		88.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		84.0	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A0415 - EPA 5030 (soil)

Matrix Spike Dup (B3A0415-MSD1)	Source: Y301035-01		Prepared: 01/04/2023 Analyzed: 01/04/2023							
1,2,4-Trimethylbenzene	0.0938	0.00200	mg/kg	0.100	ND	93.8	70-130	0.298	20	
1,3,5-Trimethylbenzene	0.0922	0.00200	"	0.100	ND	92.2	70-130	1.46	20	
Benzene	0.0976	0.00200	"	0.100	ND	97.6	70-130	1.20	20	
Ethylbenzene	0.0874	0.00200	"	0.100	ND	87.4	70-130	1.84	20	
Naphthalene	0.103	0.00380	"	0.100	ND	103	70-130	1.35	20	
Toluene	0.0924	0.00200	"	0.100	ND	92.4	70-130	2.25	20	
o-Xylene	0.0864	0.00200	"	0.100	ND	86.4	70-130	1.79	20	
m,p-Xylene	0.165	0.00400	"	0.200	0.00178	81.8	70-130	1.21	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.3	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		88.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.10		"	0.125		83.6	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3A1323 - EPA 3050B

Blank (B3A1323-BLK1)

Prepared: 01/13/2023 Analyzed: 01/18/2023

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

LCS (B3A1323-BS1)

Prepared: 01/13/2023 Analyzed: 01/18/2023

Arsenic	0.0489	0.000100	mg/kg	0.0500		97.8	80-120			
Barium	5.19	0.0100	"	5.00		104	80-120			
Cadmium	0.0524	0.000100	"	0.0500		105	80-120			
Copper	0.531	0.0100	"	0.500		106	80-120			
Lead	0.0545	0.0100	"	0.0500		109	80-120			
Nickel	0.0531	0.0100	"	0.0500		106	80-120			
Selenium	0.0488	0.000100	"	0.0500		97.5	80-120			
Silver	0.0450	0.000100	"	0.0500		90.0	80-120			
Zinc	0.513	0.100	"	0.500		103	80-120			

Matrix Spike (B3A1323-MS1)

Source: Y301177-01

Prepared: 01/13/2023 Analyzed: 01/18/2023

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3A1323 - EPA 3050B

Matrix Spike (B3A1323-MS1)		Source: Y301177-01			Prepared: 01/13/2023 Analyzed: 01/18/2023					
Arsenic	6.84	0.0906	mg/kg	4.53	2.41	97.9	75-125			
Barium	508	9.06	"	453	23.6	107	75-125			
Cadmium	4.91	0.0906	"	4.53	0.0346	108	75-125			
Copper	51.1	9.06	"	45.3	0.791	111	75-125			
Lead	7.59	9.06	"	4.53	2.83	105	75-125			U
Nickel	6.11	9.06	"	4.53	1.37	105	75-125			U
Selenium	4.55	0.0906	"	4.53	0.0462	99.3	75-125			
Silver	4.20	0.0906	"	4.53	0.00192	92.6	75-125			
Zinc	55.8	90.6	"	45.3	ND	123	75-125			U

Matrix Spike Dup (B3A1323-MSD1)		Source: Y301177-01			Prepared: 01/13/2023 Analyzed: 01/18/2023					
Arsenic	13.2	0.0947	mg/kg	4.73	2.41	228	75-125	63.5	20	QM-07, QR-DUP
Barium	561	9.47	"	473	23.6	114	75-125	9.97	20	
Cadmium	5.52	0.0947	"	4.73	0.0346	116	75-125	11.8	20	
Copper	57.5	9.47	"	47.3	0.791	120	75-125	11.9	20	
Lead	10.4	9.47	"	4.73	2.83	160	75-125	31.4	20	QM-07, QR-DUP
Nickel	7.88	9.47	"	4.73	1.37	138	75-125	25.4	20	QM-07, QR-DUP
Selenium	5.35	0.0947	"	4.73	0.0462	112	75-125	16.2	20	
Silver	4.71	0.0947	"	4.73	0.00192	99.4	75-125	11.4	20	
Zinc	65.5	94.7	"	47.3	ND	138	75-125	16.1	20	QM-07, U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3A0503 - DTPA Sorbitol Preparation

Blank (B3A0503-BLK1)

Prepared: 01/05/2023 Analyzed: 01/06/2023

Boron	ND	0.100	mg/L							U
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Duplicate (B3A0503-DUP1)

Source: Y301027-02

Prepared: 01/05/2023 Analyzed: 01/06/2023

Boron	0.848	0.0999	mg/L		0.781			8.24	50	
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Batch B3A0504 - Saturated Paste Metals

Blank (B3A0504-BLK1)

Prepared: 01/05/2023 Analyzed: 01/06/2023

SAR	0.00		SAR							U
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Calcium PPM	ND	10.0	mg/L							U
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Magnesium PPM	ND	10.0	"							U
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Sodium PPM	ND	10.0	"							U
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Duplicate (B3A0504-DUP1)

Source: Y301021-17

Prepared: 01/05/2023 Analyzed: 01/06/2023

SAR	0.00		SAR		1.75			200	200	U
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Calcium PPM	33.2	10.0	mg/L		34.2			2.98	50	
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Magnesium PPM	23.0	10.0	"		23.1			0.738	50	
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Sodium PPM	53.4	10.0	"		54.0			1.13	50	
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Batch B3A0607 - DTPA Sorbitol Preparation

Blank (B3A0607-BLK1)

Prepared: 01/06/2023 Analyzed: 01/09/2023

Boron	ND	0.100	mg/L							U
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Duplicate (B3A0607-DUP1)

Source: Y301035-02

Prepared: 01/06/2023 Analyzed: 01/09/2023

Boron	0.194	0.0989	mg/L		0.234			18.4	50	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A0508 - Saturated Paste pH/EC

Blank (B3A0508-BLK1)

Prepared: 01/05/2023 Analyzed: 01/06/2023

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B3A0508-DUP1)

Source: Y301021-17

Prepared: 01/05/2023 Analyzed: 01/06/2023

pH	8.01		pH Units		8.06		0.622		25	
Specific Conductance (EC)	0.685	0.00500	mmhos/cm		0.636		7.30		25	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 L659149 -										
DUP (L 93495-DUP)		Source: 93495			Prepared: Analyzed: 01/18/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 93495-MS)		Source: 93495			Prepared: Analyzed: 01/18/2023					
Chromium, Hexavalent	38.9	2.5	mg/Kg	38.7	< 0.248	101	75-125			
LCS (LCS)		Prepared: Analyzed: 01/18/2023								
Chromium, Hexavalent	6.85	0.5	mg/Kg	8		86	75-125			
LRB (LRB)		Prepared: Analyzed: 01/18/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Sakata Red W 6-1A

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.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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January 17, 2023

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Sakata Red W 6-1A

Project Number - [none]

Attached are your analytical results for KMG - Sakata Red W 6-1A received by Origins Laboratory, Inc. January 11, 2023. This project is associated with Origins project number Y301175-01.

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

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

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

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

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

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



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Sakata Red W 6-1A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B02@6'	Y301175-01	Soil	January 11, 2023 14:55	01/11/2023 16:43

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4301175 Client: Eagle
 Client Project ID: Sakata Red W 6-1A
 Checklist Completed by: EHS/DE Shipped Via: HD
 Date/time completed: 1/11/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1, 1.0 °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 NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

DE
 Reviewed by (Project Manager)

01/10/23
 Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

FL-B02@6'

1/11/2023 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y301175-01 (Soil)**

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B3A1207	KAP	01/12/2023	01/13/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3A1121	ADM	01/11/2023	01/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: *o*-Terphenyl 107 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3A1122	ZZZ	01/11/2023	01/11/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 96.0 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 99.2 % 70-130 " " "

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

FL-B02@6'

1/11/2023 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y301175-01 (Soil)**

Metals by Saturated Paste by EPA 6010

Calcium	1.13	0.499	meq/L	10	[CALC]	KAP	01/12/2023	01/13/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	ND	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.09		pH Units	1	B3A1210	HJD	01/12/2023	01/13/2023	
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SAR by 20B Saturated Paste

SAR	0.345		SAR	1	B3A1206	KAP	01/12/2023	01/13/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.198	0.00500	mmhos/cm	1	B3A1210	HJD	01/12/2023	01/13/2023	
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Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A1121 - EPA 3580										
Blank (B3A1121-BLK1)										
					Prepared: 01/11/2023 Analyzed: 01/11/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		104	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.

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A1121 - EPA 3580

LCS (B3A1121-BS1)

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

Diesel (C10-C28)	920	50.0	mg/kg	1000		92.0	70-130			
Residual Range Organics (C28-C40)	950	200	"	1000		95.0	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	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.

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A1121 - EPA 3580

Matrix Spike (B3A1121-MS1)	Source: Y301167-01			Prepared: 01/11/2023 Analyzed: 01/11/2023						
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130			
Residual Range Organics (C28-C40)	987	200	"	1000	ND	98.7	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A1121 - EPA 3580										
Matrix Spike Dup (B3A1121-MSD1)					Source: Y301167-01					Prepared: 01/11/2023 Analyzed: 01/12/2023
Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	70-130	0.691	35	
Residual Range Organics (C28-C40)	982	200	"	1000	ND	98.2	70-130	0.546	35	
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A1122 - EPA 5030 (soil)										
Blank (B3A1122-BLK1)										
					Prepared: 01/11/2023 Analyzed: 01/11/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>94.9</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.13</i>		<i>"</i>	<i>0.125</i>		<i>102</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>99.1</i>	<i>70-130</i>			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A1122 - EPA 5030 (soil)

LCS (B3A1122-BS1)

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

1,2,4-Trimethylbenzene	0.0923	0.00200	mg/kg	0.100		92.3	70-130			
1,3,5-Trimethylbenzene	0.0943	0.00200	"	0.100		94.3	70-130			
Benzene	0.0962	0.00200	"	0.100		96.2	70-130			
Ethylbenzene	0.0952	0.00200	"	0.100		95.2	70-130			
Toluene	0.0955	0.00200	"	0.100		95.5	70-130			
o-Xylene	0.0960	0.00200	"	0.100		96.0	70-130			
m,p-Xylene	0.186	0.00400	"	0.200		92.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A1122 - EPA 5030 (soil)

Matrix Spike (B3A1122-MS1)	Source: Y301167-01			Prepared: 01/11/2023 Analyzed: 01/11/2023						
1,2,4-Trimethylbenzene	0.0884	0.00200	mg/kg	0.100	ND	88.4	70-130			
1,3,5-Trimethylbenzene	0.0903	0.00200	"	0.100	ND	90.3	70-130			
Benzene	0.0945	0.00200	"	0.100	ND	94.5	70-130			
Ethylbenzene	0.0910	0.00200	"	0.100	ND	91.0	70-130			
Toluene	0.0931	0.00200	"	0.100	0.00112	92.0	70-130			
o-Xylene	0.0920	0.00200	"	0.100	ND	92.0	70-130			
m,p-Xylene	0.178	0.00400	"	0.200	0.00100	88.3	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.11</i>		<i>"</i>	<i>0.125</i>		<i>91.9</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.13</i>		<i>"</i>	<i>0.125</i>		<i>100</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.13</i>		<i>"</i>	<i>0.125</i>		<i>102</i>	<i>70-130</i>			

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A1122 - EPA 5030 (soil)

Matrix Spike Dup (B3A1122-MSD1)	Source: Y301167-01			Prepared: 01/11/2023 Analyzed: 01/11/2023						
1,2,4-Trimethylbenzene	0.0878	0.00200	mg/kg	0.100	ND	87.8	70-130	0.681	20	
1,3,5-Trimethylbenzene	0.0890	0.00200	"	0.100	ND	89.0	70-130	1.47	20	
Benzene	0.0952	0.00200	"	0.100	ND	95.2	70-130	0.696	20	
Ethylbenzene	0.0909	0.00200	"	0.100	ND	90.9	70-130	0.154	20	
Toluene	0.0928	0.00200	"	0.100	0.00112	91.7	70-130	0.301	20	
o-Xylene	0.0918	0.00200	"	0.100	ND	91.8	70-130	0.239	20	
m,p-Xylene	0.178	0.00400	"	0.200	0.00100	88.5	70-130	0.281	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3A1206 - Saturated Paste Metals

Blank (B3A1206-BLK1)

Prepared: 01/12/2023 Analyzed: 01/13/2023

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

Duplicate (B3A1206-DUP1)

Source: Y301163-02

Prepared: 01/12/2023 Analyzed: 01/13/2023

SAR	0.00		SAR		0.118			200	200	
Calcium PPM	31.9	10.0	mg/L		33.2			4.18	50	
Magnesium PPM	5.43	10.0	"		5.75			5.83	50	
Sodium PPM	2.72	10.0	"		2.80			2.83	50	

Batch B3A1207 - DTPA Sorbitol Preparation

Blank (B3A1207-BLK1)

Prepared: 01/12/2023 Analyzed: 01/13/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3A1207-DUP1)

Source: Y301159-01

Prepared: 01/12/2023 Analyzed: 01/13/2023

Boron	0.512	0.0991	mg/L		0.526			2.74	50	
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Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3A1210 - Saturated Paste pH/EC										
Blank (B3A1210-BLK1)					Prepared: 01/12/2023 Analyzed: 01/13/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3A1210-DUP1)					Source: Y301163-02 Prepared: 01/12/2023 Analyzed: 01/13/2023					
Specific Conductance (EC)	0.266	0.00500	mmhos/cm		0.251			5.53	25	
pH	7.77		pH Units		8.02			3.17	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.

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

Dan Coloccia
Project Number: [none]
Project: KMG - Sakata Red W 6-1A

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



January 20, 2023

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Sakata Red W 6-1A

Project Number - [none]

Attached are your analytical results for KMG - Sakata Red W 6-1A received by Origins Laboratory, Inc. January 12, 2023. This project is associated with Origins project number Y301194-01.

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



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

Dan Coloccia
Project Number: [none]
Project: KMG - Sakata Red W 6-1A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B07@5'	Y301194-01	Soil	January 12, 2023 14:20	01/12/2023 16:34

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 430194

Client: Eagle

Client Project ID: Sakata Red W 6-1A

Checklist Completed by: EHS/DC

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

Date/time completed: 1/12/13

Airbill #: NH

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

Cooler Number/Temperature: 1, 3.0 °C °C °C °C (Describe) °C

Thermometer ID: T804

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

⁽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.

DC
 Reviewed by (Project Manager)

01/12/13
 Date/Time Reviewed

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

FL-B07@5'

1/12/2023 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301194-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0999	mg/L	1	B3A1304	01/13/2023	01/16/2023	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3A1215	01/12/2023	01/12/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	93.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3A1219	01/12/2023	01/12/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	0.00572		0.00380	"	"	"	"	"	
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

FL-B07@5'

1/12/2023 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301194-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	92.7 %		70-130			B3A12 19	01/12/2023	01/12/2023	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.28		0.499	meq/L	10	[CALC]	01/13/2023	01/16/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.77		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L658759	01/16/2023	01/17/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.000691	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

FL-B07@5'

1/12/2023 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y301194-01 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L658759	01/16/2023	01/17/2023	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	52.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	57.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	54.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.25			pH Units	1	B3A1313	01/13/2023	01/14/2023	
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SAR by 20B Saturated Paste

SAR	1.94			SAR	1	B3A1307	01/13/2023	01/16/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.381		0.00500	mmhos/cm	1	B3A1313	01/13/2023	01/14/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.31		0.0937	mg/kg	10	B3A1323	01/13/2023	01/18/2023	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

FL-B07@5'

1/12/2023 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301194-01 (Soil)

Table 915 metals by EPA 6020B

Barium	117		9.37	mg/kg	10	B3A1323	01/13/2023	01/18/2023	
Cadmium	ND		0.0937	"	"	"	"	"	U
Copper	ND		9.37	"	"	"	"	"	U
Lead	ND		9.37	"	"	"	"	"	U
Nickel	ND		9.37	"	"	"	"	"	U
Selenium	ND		0.0937	"	"	"	"	"	U
Silver	ND		0.0937	"	"	"	"	"	U
Zinc	ND		93.7	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.509	mg/Kg	1	L659149	01/12/2023	01/18/2023	
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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A1215 - EPA 3580

Blank (B3A1215-BLK1)

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

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		97.3	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A1215 - EPA 3580

LCS (B3A1215-BS1)

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

Diesel (C10-C28)	810	50.0	mg/kg	1000		81.0	70-130			
Residual Range Organics (C28-C40)	919	200	"	1000		91.9	70-130			
Surrogate: o-Terphenyl	47		"	49.8		93.6	50-150			

Origins Laboratory, Inc.



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Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A1215 - EPA 3580

Matrix Spike (B3A1215-MS1)	Source: Y301183-01			Prepared: 01/12/2023 Analyzed: 01/12/2023						
Diesel (C10-C28)	782	50.0	mg/kg	1000	ND	78.2	70-130			
Residual Range Organics (C28-C40)	919	200	"	1000	ND	91.9	70-130			
Surrogate: o-Terphenyl	45		"	49.8		91.3	50-150			

Origins Laboratory, Inc.



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Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A1215 - EPA 3580

Matrix Spike Dup (B3A1215-MSD1)	Source: Y301183-01		Prepared: 01/12/2023 Analyzed: 01/12/2023							
Diesel (C10-C28)	829	50.0	mg/kg	1000	ND	82.9	70-130	5.82	35	
Residual Range Organics (C28-C40)	928	200	"	1000	ND	92.8	70-130	0.989	35	
Surrogate: o-Terphenyl	47		"	49.8		94.3	50-150			

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A1219 - EPA 5030 (soil)

Blank (B3A1219-BLK1)

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A1219 - EPA 5030 (soil)

LCS (B3A1219-BS1)

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

1,2,4-Trimethylbenzene	0.0449	0.00100	mg/kg	0.0500		89.8	70-130			
1,3,5-Trimethylbenzene	0.0457	0.00100	"	0.0500		91.4	70-130			
Benzene	0.0481	0.00100	"	0.0500		96.3	70-130			
Ethylbenzene	0.0460	0.00100	"	0.0500		92.1	70-130			
Naphthalene	0.0484	0.00190	"	0.0500		96.9	70-130			
Toluene	0.0470	0.00100	"	0.0500		94.0	70-130			
o-Xylene	0.0468	0.00100	"	0.0500		93.7	70-130			
m,p-Xylene	0.0903	0.00200	"	0.100		90.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.058		"	0.0625		93.2	70-130			
Surrogate: Toluene-d8	0.063		"	0.0625		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.064		"	0.0625		103	70-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A1219 - EPA 5030 (soil)

Matrix Spike (B3A1219-MS1)	Source: Y301180-01			Prepared: 01/12/2023 Analyzed: 01/12/2023						
1,2,4-Trimethylbenzene	0.207	0.00200	mg/kg	0.100	0.121	85.5	70-130			
1,3,5-Trimethylbenzene	0.117	0.00200	"	0.100	0.0249	92.6	70-130			
Benzene	0.107	0.00200	"	0.100	0.00300	104	70-130			
Ethylbenzene	0.111	0.00200	"	0.100	0.0142	96.6	70-130			
Naphthalene	0.155	0.00380	"	0.100	0.0551	99.7	70-130			
Toluene	0.102	0.00200	"	0.100	ND	102	70-130			
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130			
m,p-Xylene	0.215	0.00400	"	0.200	0.0262	94.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A1219 - EPA 5030 (soil)

Matrix Spike Dup (B3A1219-MSD1)	Source: Y301180-01			Prepared: 01/12/2023 Analyzed: 01/12/2023						
1,2,4-Trimethylbenzene	0.199	0.00200	mg/kg	0.100	0.121	77.5	70-130	3.98	20	
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100	0.0249	84.5	70-130	7.16	20	
Benzene	0.0977	0.00200	"	0.100	0.00300	94.7	70-130	9.00	20	
Ethylbenzene	0.103	0.00200	"	0.100	0.0142	88.5	70-130	7.53	20	
Naphthalene	0.151	0.00380	"	0.100	0.0551	96.3	70-130	2.19	20	
Toluene	0.0923	0.00200	"	0.100	ND	92.3	70-130	9.81	20	
o-Xylene	0.0927	0.00200	"	0.100	ND	92.7	70-130	8.21	20	
m,p-Xylene	0.199	0.00400	"	0.200	0.0262	86.3	70-130	8.02	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3A1323 - EPA 3050B

Blank (B3A1323-BLK1)

Prepared: 01/13/2023 Analyzed: 01/18/2023

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

LCS (B3A1323-BS1)

Prepared: 01/13/2023 Analyzed: 01/18/2023

Arsenic	0.0489	0.000100	mg/kg	0.0500		97.8	80-120			
Barium	5.19	0.0100	"	5.00		104	80-120			
Cadmium	0.0524	0.000100	"	0.0500		105	80-120			
Copper	0.531	0.0100	"	0.500		106	80-120			
Lead	0.0545	0.0100	"	0.0500		109	80-120			
Nickel	0.0531	0.0100	"	0.0500		106	80-120			
Selenium	0.0488	0.000100	"	0.0500		97.5	80-120			
Silver	0.0450	0.000100	"	0.0500		90.0	80-120			
Zinc	0.513	0.100	"	0.500		103	80-120			

Matrix Spike (B3A1323-MS1)

Source: Y301177-01

Prepared: 01/13/2023 Analyzed: 01/18/2023

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3A1323 - EPA 3050B

Matrix Spike (B3A1323-MS1)		Source: Y301177-01			Prepared: 01/13/2023 Analyzed: 01/18/2023					
Arsenic	6.84	0.0906	mg/kg	4.53	2.41	97.9	75-125			
Barium	508	9.06	"	453	23.6	107	75-125			
Cadmium	4.91	0.0906	"	4.53	0.0346	108	75-125			
Copper	51.1	9.06	"	45.3	0.791	111	75-125			
Lead	7.59	9.06	"	4.53	2.83	105	75-125			U
Nickel	6.11	9.06	"	4.53	1.37	105	75-125			U
Selenium	4.55	0.0906	"	4.53	0.0462	99.3	75-125			
Silver	4.20	0.0906	"	4.53	0.00192	92.6	75-125			
Zinc	55.8	90.6	"	45.3	ND	123	75-125			U

Matrix Spike Dup (B3A1323-MSD1)		Source: Y301177-01			Prepared: 01/13/2023 Analyzed: 01/18/2023					
Arsenic	13.2	0.0947	mg/kg	4.73	2.41	228	75-125	63.5	20	QM-07, QR-DUP
Barium	561	9.47	"	473	23.6	114	75-125	9.97	20	
Cadmium	5.52	0.0947	"	4.73	0.0346	116	75-125	11.8	20	
Copper	57.5	9.47	"	47.3	0.791	120	75-125	11.9	20	
Lead	10.4	9.47	"	4.73	2.83	160	75-125	31.4	20	QM-07, QR-DUP
Nickel	7.88	9.47	"	4.73	1.37	138	75-125	25.4	20	QM-07, QR-DUP
Selenium	5.35	0.0947	"	4.73	0.0462	112	75-125	16.2	20	
Silver	4.71	0.0947	"	4.73	0.00192	99.4	75-125	11.4	20	
Zinc	65.5	94.7	"	47.3	ND	138	75-125	16.1	20	QM-07, U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3A1304 - DTPA Sorbitol Preparation

Blank (B3A1304-BLK1)

Prepared: 01/13/2023 Analyzed: 01/16/2023

Boron	ND	0.100	mg/L							U
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Duplicate (B3A1304-DUP1)

Source: Y301183-01

Prepared: 01/13/2023 Analyzed: 01/16/2023

Boron	0.0352	0.101	mg/L		0.0226			43.7	50	U
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Batch B3A1307 - Saturated Paste Metals

Blank (B3A1307-BLK1)

Prepared: 01/13/2023 Analyzed: 01/16/2023

SAR	0.00		SAR							U
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Calcium PPM	ND	10.0	mg/L							U
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Magnesium PPM	ND	10.0	"							U
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Sodium PPM	ND	10.0	"							U
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Duplicate (B3A1307-DUP1)

Source: Y301183-01

Prepared: 01/13/2023 Analyzed: 01/16/2023

Calcium PPM	96.9	10.0	mg/L		94.9			2.10	50	
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SAR	0.00		SAR		2.69			200	200	U
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Magnesium PPM	30.7	10.0	mg/L		30.3			1.53	50	
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Sodium PPM	123	10.0	"		118			4.30	50	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A1313 - Saturated Paste pH/EC

Blank (B3A1313-BLK1)

Prepared: 01/13/2023 Analyzed: 01/14/2023

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B3A1313-DUP1)

Source: Y301183-01

Prepared: 01/13/2023 Analyzed: 01/14/2023

Specific Conductance (EC)	1.25	0.00500	mmhos/cm		1.36		8.19		25	
pH	7.91		pH Units		8.00		1.13		25	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L658759 - 3550B

MSD (L 93507-MSD-L658759)		Source: 93507			Prepared: 01/16/2023 Analyzed: 01/17/2023					
Dibenz(a,h)anthracene	0.122	0.00067	mg/Kg	0.164	0.00128	73.6	30-130	1.6	30	
Pyrene	0.0937	0.00067	"	0.164	<0.000643	57.1	30-130	3.8	30	
Indeno(1,2,3-cd)pyrene	0.112	0.00067	"	0.164	<0.000627	68.2	30-130	11.3	30	
1-Methylnaphthalene	0.0795	0.00201	"	0.164	<0.00109	48.4	30-130	10	30	
Fluorene	0.095	0.00067	"	0.164	<0.000286	57.9	30-130	4.5	30	
2-Methylnaphthalene	0.0809	0.00201	"	0.164	<0.00194	49.3	30-130	9.1	30	
Acenaphthene	0.0881	0.00067	"	0.164	<0.000304	53.7	30-130	6.3	30	
Anthracene	0.0976	0.00067	"	0.164	<0.000334	59.5	30-130	7.3	30	
Benzo(a)anthracene	0.0924	0.00067	"	0.164	<0.000493	56.3	30-130	2.8	30	
Benzo(b)fluoranthene	0.0978	0.00067	"	0.164	<0.000585	59.6	30-130	7.1	30	
Benzo(k)fluoranthene	0.0811	0.00067	"	0.164	<0.000437	49.4	30-130	4.1	30	
Chrysene	0.106	0.00067	"	0.164	<0.000624	64.6	30-130	5.5	30	
Fluoranthene	0.0974	0.00067	"	0.164	<0.000394	59.3	30-130	4.6	30	
Benzo(a)pyrene	0.101	0.00067	"	0.164	<0.000468	61.5	30-130	4.8	30	
Surrogate: Nitrobenzene-d5	49.8		"	0.329	167	49.8	29-110			
Surrogate: 4-Terphenyl-d14	54.7		"	0.329	189	54.7	33-122			
Surrogate: 2-Fluorobiphenyl	46.8		"	0.329	160	46.8	33-115			

MS (L 93507-MS-L658759)		Source: 93507			Prepared: 01/16/2023 Analyzed: 01/17/2023					
Indeno(1,2,3-cd)pyrene	0.1	0.00067	mg/Kg	0.166	<0.000627	60.2	30-130			
Pyrene	0.0974	0.00067	"	0.166	<0.000643	58.6	30-130			
Benzo(k)fluoranthene	0.0845	0.00067	"	0.166	<0.000437	50.9	30-130			
Chrysene	0.112	0.00067	"	0.166	<0.000624	67.4	30-130			
Dibenz(a,h)anthracene	0.12	0.00067	"	0.166	0.00128	71.5	30-130			
Fluorene	0.0994	0.00067	"	0.166	<0.000286	59.8	30-130			
Acenaphthene	0.0939	0.00067	"	0.166	<0.000304	56.5	30-130			
Benzo(b)fluoranthene	0.105	0.00067	"	0.166	<0.000585	63.2	30-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L658759 - 3550B

MS (L 93507-MS-L658759)		Source: 93507			Prepared: 01/16/2023 Analyzed: 01/17/2023					
Fluoranthene	0.102	0.00067	mg/Kg	0.166	<0.000394	61.4	30-130			
Benzo(a)anthracene	0.0951	0.00067	"	0.166	<0.000493	57.2	30-130			
Anthracene	0.105	0.00067	"	0.166	<0.000334	63.2	30-130			
2-Methylnaphthalene	0.0887	0.00201	"	0.166	<0.00194	53.4	30-130			
1-Methylnaphthalene	0.0879	0.00201	"	0.166	<0.00109	52.9	30-130			
Benzo(a)pyrene	0.106	0.00067	"	0.166	<0.000468	63.8	30-130			
Surrogate: Nitrobenzene-d5	52.5		"	0.331	167	52.5	29-110			
Surrogate: 4-Terphenyl-d14	55.5		"	0.331	189	55.5	33-122			
Surrogate: 2-Fluorobiphenyl	50.1		"	0.331	160	50.1	33-115			

LCS (LCS-L658759)					Prepared: 01/16/2023 Analyzed: 01/17/2023					
Benzo(b)fluoranthene	0.105	0.00067	mg/Kg	0.167		62.8	30-130			
Benzo(k)fluoranthene	0.0939	0.00067	"	0.167		56.2	30-130			
Chrysene	0.113	0.00067	"	0.167		67.6	30-130			
Fluoranthene	0.107	0.00067	"	0.167		64	30-130			
Benzo(a)pyrene	0.109	0.00067	"	0.167		65.2	30-130			
Dibenz(a,h)anthracene	0.125	0.00067	"	0.167		74.8	30-130			
Pyrene	0.104	0.00067	"	0.167		62.2	30-130			
Indeno(1,2,3-cd)pyrene	0.101	0.00067	"	0.167		60.4	30-130			
Anthracene	0.113	0.00067	"	0.167		67.6	30-130			
Acenaphthene	0.0964	0.00067	"	0.167		57.7	30-130			
2-Methylnaphthalene	0.0895	0.00201	"	0.167		53.5	30-130			
1-Methylnaphthalene	0.0896	0.00201	"	0.167		53.6	30-130			
Fluorene	0.101	0.00067	"	0.167		60.4	30-130			
Benzo(a)anthracene	0.0982	0.00067	"	0.167		58.8	30-130			
Surrogate: Nitrobenzene-d5	55.5		"	0.333		55.5	29-110			
Surrogate: 4-Terphenyl-d14	63.6		"	0.333		63.6	33-122			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L658759 - 3550B

LCS (LCS-L658759)

Prepared: 01/16/2023 Analyzed: 01/17/2023

Surrogate: 2-Fluorobiphenyl 54.9 mg/Kg 0.333 54.9 33-115

LRB (LRB-L658759)

Prepared: 01/16/2023 Analyzed: 01/17/2023

Indeno(1,2,3-cd)pyrene	ND	0.00067	mg/Kg				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	57.9		"	0.333		57.9	33-115			
Surrogate: Nitrobenzene-d5	63.3		"	0.333		63.3	29-110			
Surrogate: 4-Terphenyl-d14	63.9		"	0.333		63.9	33-122			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 L659149 -										
DUP (L 93495-DUP)		Source: Y301194-01			Prepared: Analyzed: 01/18/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 93495-MS)		Source: Y301194-01			Prepared: Analyzed: 01/18/2023					
Chromium, Hexavalent	38.9	2.5	mg/Kg	38.7	< 0.248	101	75-125			
LCS (LCS)		Prepared: Analyzed: 01/18/2023								
Chromium, Hexavalent	6.85	0.5	mg/Kg	8		86	75-125			
LRB (LRB)		Prepared: Analyzed: 01/18/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dan Coloccia
Project Number: [none]
Project: KMG - Sakata Red W 6-1A

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.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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January 23, 2023

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Sakata Red W 6-1A

Project Number - [none]

Attached are your analytical results for KMG - Sakata Red W 6-1A received by Origins Laboratory, Inc. January 13, 2023. This project is associated with Origins project number Y301240-01.

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

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

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

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

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

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



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Sakata Red W 6-1A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B15@5'	Y301240-01	Soil	January 13, 2023 14:04	01/13/2023 16:01

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4301240 Client: Eagle
 Client Project ID: Sakata Red W6-1A
 Checklist Completed by: EHS/OIE Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 11/13/23 Airbill #: NA
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 13.3 °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⁾ ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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)			X	
Additional Comments (if any):				

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

DE Reviewed by (Project Manager) 01/13/23 Date/Time Reviewed

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

FL-B15@5'

1/13/2023 2:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301240-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.301	0.100	mg/L	1	B3A1401	KAP	01/14/2023	01/17/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3A1301	ADM	01/14/2023	01/14/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	90.1 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3A1332	ZZZ	01/13/2023	01/13/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

FL-B15@5'

1/13/2023 2:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y301240-01 (Soil)**

Metals by Saturated Paste by EPA 6010

Calcium	2.00	0.499	meq/L	10	[CALC]	KAP	01/14/2023	01/17/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	2.83	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	7.99		pH Units	1	B3A1409	HJD	01/14/2023	01/17/2023	
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SAR by 20B Saturated Paste

SAR	2.44		SAR	1	B3A1405	KAP	01/14/2023	01/17/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.689	0.00500	mmhos/cm	1	B3A1409	HJD	01/14/2023	01/17/2023	
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Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A1301 - EPA 3580										
Blank (B3A1301-BLK1)										
					Prepared: 01/13/2023 Analyzed: 01/13/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		93.4	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.

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A1301 - EPA 3580

LCS (B3A1301-BS1)

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

Diesel (C10-C28)	931	50.0	mg/kg	1000		93.1	70-130			
Residual Range Organics (C28-C40)	963	200	"	1000		96.3	70-130			
Surrogate: o-Terphenyl	47		"	49.8		93.7	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.

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A1301 - EPA 3580

Matrix Spike (B3A1301-MS1)	Source: Y301204-01			Prepared: 01/13/2023 Analyzed: 01/13/2023						
Diesel (C10-C28)	920	50.0	mg/kg	1000	ND	92.0	70-130			
Residual Range Organics (C28-C40)	959	200	"	1000	ND	95.9	70-130			
Surrogate: o-Terphenyl	42		"	49.8		85.1	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.

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A1301 - EPA 3580										
Matrix Spike Dup (B3A1301-MSD1)		Source: Y301204-01			Prepared: 01/13/2023 Analyzed: 01/13/2023					
Diesel (C10-C28)	875	50.0	mg/kg	1000	ND	87.5	70-130	5.02	35	
Residual Range Organics (C28-C40)	911	200	"	1000	ND	91.1	70-130	5.04	35	
Surrogate: o-Terphenyl	40		"	49.8		79.7	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.

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A1332 - EPA 5030 (soil)

Blank (B3A1332-BLK1)

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A1332 - EPA 5030 (soil)

LCS (B3A1332-BS1)

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

1,2,4-Trimethylbenzene	0.0858	0.00200	mg/kg	0.100		85.8	70-130			
1,3,5-Trimethylbenzene	0.0875	0.00200	"	0.100		87.5	70-130			
Benzene	0.0925	0.00200	"	0.100		92.5	70-130			
Ethylbenzene	0.0883	0.00200	"	0.100		88.3	70-130			
Naphthalene	0.0903	0.00380	"	0.100		90.3	70-130			
Toluene	0.0917	0.00200	"	0.100		91.7	70-130			
o-Xylene	0.0886	0.00200	"	0.100		88.6	70-130			
m,p-Xylene	0.174	0.00400	"	0.200		87.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3A1332 - EPA 5030 (soil)

LCS Dup (B3A1332-BSD1)

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

1,2,4-Trimethylbenzene	0.0907	0.00200	mg/kg	0.100		90.7	70-130	5.53	20	
1,3,5-Trimethylbenzene	0.0921	0.00200	"	0.100		92.1	70-130	5.08	20	
Benzene	0.0979	0.00200	"	0.100		97.9	70-130	5.67	20	
Ethylbenzene	0.0924	0.00200	"	0.100		92.4	70-130	4.47	20	
Naphthalene	0.0982	0.00380	"	0.100		98.2	70-130	8.42	20	
Toluene	0.0970	0.00200	"	0.100		97.0	70-130	5.55	20	
o-Xylene	0.0933	0.00200	"	0.100		93.3	70-130	5.17	20	
m,p-Xylene	0.181	0.00400	"	0.200		90.4	70-130	3.78	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3A1401 - DTPA Sorbitol Preparation

Blank (B3A1401-BLK1)

Prepared: 01/14/2023 Analyzed: 01/17/2023

Boron ND 0.100 mg/L

Duplicate (B3A1401-DUP1)

Source: Y301212-03

Prepared: 01/14/2023 Analyzed: 01/17/2023

Boron 2.73 0.0996 mg/L 2.33 16.0 50

Batch B3A1405 - Saturated Paste Metals

Blank (B3A1405-BLK1)

Prepared: 01/14/2023 Analyzed: 01/17/2023

Calcium PPM ND 10.0 mg/L

SAR 0.00 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B3A1405-DUP1)

Source: Y301237-01

Prepared: 01/14/2023 Analyzed: 01/17/2023

Calcium PPM 29.0 10.0 mg/L 41.1 34.6 50

SAR 0.00 SAR 1.61 200 200

Magnesium PPM 11.1 10.0 mg/L 15.5 33.4 50

Sodium PPM 33.9 10.0 " 47.7 33.9 50

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3A1409 - Saturated Paste pH/EC										
Blank (B3A1409-BLK1)					Prepared: 01/14/2023 Analyzed: 01/17/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3A1409-DUP1)		Source: Y301210-01			Prepared: 01/14/2023 Analyzed: 01/17/2023					
Specific Conductance (EC)	0.634	0.00500	mmhos/cm		0.459			31.9	25	QR-DUP
pH	7.97		pH Units		8.37			4.90	25	

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Sakata Red W 6-1A

Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



February 09, 2023

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Sakata Red W 6-1A

Project Number - [none]

Attached are your analytical results for KMG - Sakata Red W 6-1A received by Origins Laboratory, Inc. February 03, 2023. This project is associated with Origins project number Y302071-01.

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

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

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

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

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

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



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - Sakata Red W 6-1A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B07@8'	Y302071-01	Soil	February 3, 2023 10:24	02/03/2023 16:20
FL-N01@5'	Y302071-02	Soil	February 3, 2023 10:26	02/03/2023 16:20
FL-S01@5'	Y302071-03	Soil	February 3, 2023 10:28	02/03/2023 16:20
FL-E01@5'	Y302071-04	Soil	February 3, 2023 10:30	02/03/2023 16:20
FL-W01@5'	Y302071-05	Soil	February 3, 2023 10:33	02/03/2023 16:20

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4302071

Client: Eagle

Client Project ID: Sakata Red W 6-1A

Checklist Completed by: EHS/DC

Shipped Via: HD

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

Date/time completed: 2/13/13

Airbill #: NA

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

Cooler Number/Temperature: 1 / 3.6°C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: TOOT

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

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

DC
 Reviewed by (Project Manager)

02/22/2013
 Date/Time Reviewed

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

FL-B07@8'

2/3/2023 10:24:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y302071-01 (Soil)**

GBTEX+TMBs by 8260D

Naphthalene	ND	3.80	ug/kg	1	B3B0327	ZZZ	02/03/2023	02/04/2023	U
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.7 %	70-130			"	"	"	"	

pH in Soil by 9045D

pH	8.37		pH Units	1	B3B0612	HJD	02/06/2023	02/07/2023	
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Table 915 metals by EPA 6020B

Arsenic	0.433	0.0965	mg/kg	10	B3B0328	CNG	02/03/2023	02/03/2023	
Barium	10.3	9.65	"	"	"	CNG	"	"	

Origins Laboratory, Inc.


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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

FL-N01@5'

2/3/2023 10:26:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y302071-02 (Soil)

GBTEX+TMBs by 8260D

Naphthalene	ND	3.80	ug/kg	1	B3B0327	ZZZ	02/03/2023	02/04/2023	U
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.5 %	70-130			"	"	"	"	

pH in Soil by 9045D

pH	8.07		pH Units	1	B3B0612	HJD	02/06/2023	02/07/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.47	0.0983	mg/kg	10	B3B0328	CNG	02/03/2023	02/03/2023	
Barium	ND	9.83	"	"	"	CNG	"	"	

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

FL-S01@5'

2/3/2023 10:28:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y302071-03 (Soil)

GBTEX+TMBs by 8260D

Naphthalene	ND	3.80	ug/kg	1	B3B0327	ZZZ	02/03/2023	02/04/2023	U
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.9 %	70-130			"	"	"	"	

pH in Soil by 9045D

pH	7.99		pH Units	1	B3B0612	HJD	02/06/2023	02/07/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.05	0.0878	mg/kg	10	B3B0328	CNG	02/03/2023	02/03/2023	
Barium	18.6	8.78	"	"	"	CNG	"	"	

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

FL-E01@5'

2/3/2023 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y302071-04 (Soil)

GBTEX+TMBs by 8260D

Naphthalene	ND	3.80	ug/kg	1	B3B0327	ZZZ	02/03/2023	02/04/2023	U
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.4 %	70-130			"	"	"	"	

pH in Soil by 9045D

pH	8.08		pH Units	1	B3B0612	HJD	02/06/2023	02/07/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.24	0.0954	mg/kg	10	B3B0328	CNG	02/03/2023	02/03/2023	
Barium	44.1	9.54	"	"	"	CNG	"	"	

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

FL-W01@5'
2/3/2023 10:33:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y302071-05 (Soil)

GBTEX+TMBs by 8260D

Naphthalene	ND	3.80	ug/kg	1	B3B0327	ZZZ	02/03/2023	02/04/2023	U
Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	92.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.6 %	70-130			"	"	"	"	

pH in Soil by 9045D

pH	7.97		pH Units	1	B3B0612	HJD	02/06/2023	02/07/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.99	0.0905	mg/kg	10	B3B0328	CNG	02/03/2023	02/03/2023	
Barium	71.3	9.05	"	"	"	CNG	"	"	

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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 B3B0327 - EPA 5030 (soil)

Blank (B3B0327-BLK1)

Prepared: 02/03/2023 Analyzed: 02/03/2023

1,2,4-Trimethylbenzene	ND	2.00	ug/kg							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	2.00	"							U
Ethylbenzene	ND	2.00	"							U
Naphthalene	ND	3.80	"							U
Toluene	ND	2.00	"							U
Xylenes, total	ND	2.00	"							U
Gasoline Range Hydrocarbons	ND	200	"							U
Surrogate: 1,2-Dichloroethane-d4	130		"	125	104		70-130			
Surrogate: Toluene-d8	120		"	125	95.4		70-130			
Surrogate: 4-Bromofluorobenzene	120		"	125	98.2		70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3B0327 - EPA 5030 (soil)

LCS (B3B0327-BS1)

Prepared: 02/03/2023 Analyzed: 02/03/2023

1,2,4-Trimethylbenzene	88.0	2.00	ug/kg	100		88.0	70-130			
1,3,5-Trimethylbenzene	89.3	2.00	"	100		89.3	70-130			
Benzene	93.8	2.00	"	100		93.8	70-130			
Ethylbenzene	91.9	2.00	"	100		91.9	70-130			
Naphthalene	101	3.80	"	100		101	70-130			
Toluene	92.4	2.00	"	100		92.4	70-130			
o-Xylene	88.1	2.00	"	100		88.1	70-130			
m,p-Xylene	181	4.00	"	200		90.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	130		"	125		101	70-130			
Surrogate: Toluene-d8	120		"	125		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	120		"	125		92.2	70-130			

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Dan Coloccia
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 Project: KMG - Sakata Red W 6-1A

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 B3B0327 - EPA 5030 (soil)

Matrix Spike (B3B0327-MS1)	Source: Y302054-01			Prepared: 02/03/2023 Analyzed: 02/03/2023						
1,2,4-Trimethylbenzene	486	2.00	ug/kg	100	348	138	70-130			QM-07
1,3,5-Trimethylbenzene	188	2.00	"	100	96.1	91.8	70-130			
Benzene	98.7	2.00	"	100	17.0	81.7	70-130			
Ethylbenzene	185	2.00	"	100	98.3	86.6	70-130			
Naphthalene	197	3.80	"	100	98.8	97.8	70-130			
Toluene	391	2.00	"	100	296	94.7	70-130			
o-Xylene	336	2.00	"	100	236	99.9	70-130			
m,p-Xylene	808	4.00	"	200	617	96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	130		"	125		103	70-130			
Surrogate: Toluene-d8	140		"	125		111	70-130			
Surrogate: 4-Bromofluorobenzene	120		"	125		94.8	70-130			

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 Project: KMG - Sakata Red W 6-1A

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 B3B0327 - EPA 5030 (soil)

Matrix Spike Dup (B3B0327-MSD1)	Source: Y302054-01			Prepared: 02/03/2023 Analyzed: 02/03/2023						
1,2,4-Trimethylbenzene	552	2.00	ug/kg	100	348	204	70-130	12.7	20	QM-07
1,3,5-Trimethylbenzene	201	2.00	"	100	96.1	105	70-130	6.94	20	
Benzene	89.3	2.00	"	100	17.0	72.3	70-130	10.0	20	
Ethylbenzene	195	2.00	"	100	98.3	96.9	70-130	5.40	20	
Naphthalene	244	3.80	"	100	98.8	145	70-130	21.4	20	QM-07
Toluene	373	2.00	"	100	296	76.9	70-130	4.66	20	
o-Xylene	385	2.00	"	100	236	149	70-130	13.6	20	QM-07
m,p-Xylene	889	4.00	"	200	617	136	70-130	9.53	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	130		"	125		106	70-130			
Surrogate: Toluene-d8	140		"	125		112	70-130			
Surrogate: 4-Bromofluorobenzene	110		"	125		91.5	70-130			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Sakata Red W 6-1A

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3B0328 - EPA 3050B

Blank (B3B0328-BLK1)

Prepared: 02/03/2023 Analyzed: 02/03/2023

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

LCS (B3B0328-BS1)

Prepared: 02/03/2023 Analyzed: 02/03/2023

Arsenic	0.0596	0.000100	mg/kg	0.0500		119	80-120			
Barium	5.88	0.0100	"	5.00		118	80-120			
Cadmium	0.0599	0.000100	"	0.0500		120	80-120			
Copper	0.592	0.0100	"	0.500		118	80-120			
Lead	0.0584	0.0100	"	0.0500		117	80-120			
Nickel	0.0778	0.0100	"	0.0500		156	80-120			
Selenium	0.0560	0.000100	"	0.0500		112	80-120			
Silver	0.0566	0.000100	"	0.0500		113	80-120			
Zinc	0.574	0.100	"	0.500		115	80-120			

Matrix Spike (B3B0328-MS1)

Source: Y302071-01

Prepared: 02/03/2023 Analyzed: 02/03/2023

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 Project: KMG - Sakata Red W 6-1A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3B0328 - EPA 3050B

Matrix Spike (B3B0328-MS1)		Source: Y302071-01			Prepared: 02/03/2023 Analyzed: 02/03/2023					
Arsenic	4.89	0.0897	mg/kg	4.48	0.433	99.5	75-125			
Barium	512	8.97	"	448	10.3	112	75-125			
Cadmium	5.24	0.0897	"	4.48	0.0232	116	75-125			
Copper	52.6	8.97	"	44.8	1.64	114	75-125			
Lead	7.98	8.97	"	4.48	2.62	119	75-125			
Nickel	6.58	8.97	"	4.48	1.34	117	75-125			
Selenium	4.99	0.0897	"	4.48	ND	111	75-125			
Silver	4.99	0.0897	"	4.48	0.0126	111	75-125			
Zinc	61.8	89.7	"	44.8	9.60	116	75-125			
Matrix Spike Dup (B3B0328-MSD1)		Source: Y302071-01			Prepared: 02/03/2023 Analyzed: 02/03/2023					
Arsenic	5.33	0.0966	mg/kg	4.83	0.433	101	75-125	8.57	20	
Barium	543	9.66	"	483	10.3	110	75-125	5.88	20	
Cadmium	5.68	0.0966	"	4.83	0.0232	117	75-125	7.93	20	
Copper	57.0	9.66	"	48.3	1.64	115	75-125	7.88	20	
Lead	9.31	9.66	"	4.83	2.62	138	75-125	15.3	20	QM-07
Nickel	7.68	9.66	"	4.83	1.34	131	75-125	15.5	20	
Selenium	5.55	0.0966	"	4.83	ND	115	75-125	10.5	20	
Silver	5.33	0.0966	"	4.83	0.0126	110	75-125	6.72	20	
Zinc	68.9	96.6	"	48.3	9.60	123	75-125	10.9	20	

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 Project: KMG - Sakata Red W 6-1A

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 B3B0612 - Saturated Paste pH/EC

Duplicate (B3B0612-DUP1)

Source: Y302071-01

Prepared: 02/06/2023 Analyzed: 02/07/2023

pH	8.42		pH Units		8.37			0.596	25	
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Dan Coloccia
Project Number: [none]
Project: KMG - Sakata Red W 6-1A

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.

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