



Ensolum

October 04, 2024

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Baker Red V 1-14A WH

Project Number - 09A1417866

Attached are your analytical results for KMG - Baker Red V 1-14A WH received by Origins Laboratory August 29, 2024. This project is associated with Origins project number Y408834-01.

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
303.433.1322
projectmanager@originslab.com



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

Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417866
 Project: KMG - Baker Red V 1-14A WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01(1-14)@3'	Y408834-01	Soil	August 29, 2024 13:50	08/29/2024 17:07
FL01(1-14)@3'-V	Y408834-02	Soil	August 29, 2024 13:50	08/29/2024 17:07
FL02(1-14)@3'	Y408834-03	Soil	August 29, 2024 14:30	08/29/2024 17:07
FL02(1-14)@3'-V	Y408834-04	Soil	August 29, 2024 14:30	08/29/2024 17:07
FL03(1-14)@3'	Y408834-05	Soil	August 29, 2024 15:00	08/29/2024 17:07
FL03(1-14)@3'-V	Y408834-06	Soil	August 29, 2024 15:00	08/29/2024 17:07
GW01	Y408834-07	Water	August 28, 2024 14:00	08/29/2024 17:07
GW02	Y408834-08	Water	August 28, 2024 14:40	08/29/2024 17:07
GW03	Y408834-09	Water	August 28, 2024 15:20	08/29/2024 17:07

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 Project: KMG - Baker Red V 1-14A WH

INITIAL
 IMPACTED
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 page 1 of 1
4408834

ORIGINS LABORATORY, INC
 Client: Ensolum LLC
 Address: _____
 Telephone Number: _____
 Email Address: KMG Team

Project Manager: Jeremy Espinoza
 Project Name: Baker Red V 1-14A WH Head
 Project Number: 09A1417866
 Samples Collected By: Glenn Thompson

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Soil	Full Table 915-1	BTEXN	1,2,4,1,3,5-TMB	TH-GRD/GRDRO	ECP/SA/BA/BA (SP)	PH (Add value)	Sample Instructions	
				HCl	HNO ₃	Other									
F101 (1-14) 3'	8/29/24	1350	3	X			X							Ca added	
F102 (1-14) 3'-V		1350	3	X			X							F101 (1-14) 3'-V 2	
F103 (1-14) 3'		1430	3	X			X							per dr. email	
F104 (1-14) 3'-V		1430	3	X			X							from Jeremy on	
F105 (1-14) 3'		1500	3	X			X							9/3/24 U	
F106 (1-14) 3'-V		1500	3	X			X							660H Bx (1-14) 3'-V	
G1001		1400	3	X				X	X					See log, Zn added to	
G1002		1440	3	X				X	X					F102 (1-14) 3'-V 2	
G1003		1520	3	X				X	X					400 added from Jeremy	
Redistilled By:	Date: 8/29/24	Time: 1707	Received By:	Date: 8/29/24	Time: 1707	Received By:	Date: 8/29/24	Time: 1707	Received By:	Date: 8/29/24	Time: 1707	Received By:	Date: 8/29/24	Time: 1707	Standard

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Jeremy Espinoza
Project Number: 09A1417866
Project: KMG - Baker Red V 1-14A WH

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4408834 Client: Ensolum
 Checklist Completed by: JAV Client Project ID: Baker Red
 Date/time completed: 8/29/14 Shipped Via: TVO
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 118 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: 1005

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"/>		<u>SD</u>
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 Na ₂ CO ₃ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JAV

Date/Time Reviewed 8/29/14

Origins Laboratory

J. Bynon

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417866
 Project: KMG - Baker Red V 1-14A WH

FL01(1-14)@3'
8/29/2024 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408834-01 (Soil)

Boron (DTPA Sorbitol)

Boron	1.38		0.0997	mg/L	1	B4H3011	08/30/2024	08/31/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4H2947	08/29/2024	08/30/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	106 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4H2961	08/29/2024	08/29/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			"	"	"	
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FL01(1-14)@3'
8/29/2024 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408834-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	107 %		70-130			B4H29 61	08/29/2024	08/29/2024	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.35		0.499	meq/L	10	[CALC]	08/30/2024	08/31/2024	
Magnesium	1.36		0.823	"	"	"	"	"	
Sodium	4.47		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H2946	08/29/2024	08/30/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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 Project: KMG - Baker Red V 1-14A WH

FL01(1-14)@3'
8/29/2024 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408834-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4H2946	08/29/2024	08/30/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.9 %		60-130			"	"	"	
Surrogate: Anthracene-d10	92.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	106 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.51			pH Units	1	B4H3014	08/30/2024	08/31/2024	
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SAR by 20B Saturated Paste

SAR	2.65		0.0100	SAR	1	B4H3005	08/30/2024	08/31/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.16		0.00500	mmhos/cm	1	B4H3014	08/30/2024	08/31/2024	
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Table 915 metals by EPA 6020B

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FL01(1-14)@3'
8/29/2024 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408834-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.78	0.289	mg/kg	10	B4H2959	08/29/2024	08/30/2024	
Barium	180	9.97	"	"	"	"	"	
Cadmium	0.437	0.0997	"	"	"	"	"	
Copper	27.7	9.97	"	"	"	"	"	
Lead	29.0	0.997	"	"	"	"	"	
Nickel	11.5	0.997	"	"	"	"	"	
Selenium	0.383	0.259	"	"	"	"	"	
Silver	0.313	0.0997	"	"	"	"	"	
Zinc	99.9	36.9	"	"	"	"	"	

Total Metals 7196 A

Hexavalent Chromium	ND	0.157	0.392	mg/kg dry	1	2676796	09/27/2024	10/02/2024	U
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Jeremy Espinoza
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 Project: KMG - Baker Red V 1-14A WH

FL01(1-14)@3'-V
8/29/2024 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408834-02 (Soil)

pH in Soil by 9045D

pH	8.23			pH Units	1	B4H3021	08/30/2024	09/01/2024	
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Table 915 metals by EPA 6020B

Cadmium	0.709		0.0835	mg/kg	10	B4I0330	09/03/2024	09/04/2024	
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Jeremy Espinoza
 Project Number: 09A1417866
 Project: KMG - Baker Red V 1-14A WH

FL02(1-14)@3'
8/29/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408834-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.603		0.100	mg/L	1	B4H3011	08/30/2024	08/31/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	27.5		25.0	mg/kg	1	B4H2947	08/29/2024	08/30/2024	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	99.3 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4H2961	08/29/2024	08/29/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	"	
Surrogate: Toluene-d8	107 %		70-130			"	"	"	

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 Project: KMG - Baker Red V 1-14A WH

FL02(1-14)@3'
8/29/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408834-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	106 %	70-130		B4H29 61	08/29/2024	08/29/2024
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Metals by Saturated Paste by EPA 6010

Calcium	2.53	0.499	meq/L	10	[CALC]	08/30/2024	08/31/2024
Magnesium	1.22	0.823	"	"	"	"	"
Sodium	10.2	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.002	0.002	mg/kg	1	B4H2946	08/29/2024	08/30/2024
2-Methylnaphthalene	0.003	0.002	"	"	"	"	"
Acenaphthene	ND	0.020	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	Ua
Benzo (a) anthracene	0.015	0.005	"	"	"	"	"
Benzo (a) pyrene	ND	0.020	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	Ua
Fluoranthene	0.036	0.020	"	"	"	"	"
Fluorene	ND	0.020	"	"	"	"	Ua

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 Project Number: 09A1417866
 Project: KMG - Baker Red V 1-14A WH

FL02(1-14)@3'
8/29/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408834-03 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4H2946	08/29/2024	08/30/2024	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	0.032		0.020	"	"	"	"	"	

Surrogate: Fluorene-d10	104 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	107 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.9 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.30			pH Units	1	B4H3015	08/30/2024	08/31/2024	
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SAR by 20B Saturated Paste

SAR	7.46		0.0100	SAR	1	B4H3006	08/30/2024	08/31/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.60		0.00500	mmhos/cm	1	B4H3015	08/30/2024	08/31/2024	
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Table 915 metals by EPA 6020B

Arsenic	177		0.273	mg/kg	10	B4H2959	08/29/2024	08/30/2024	
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11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
Project Number: 09A1417866
Project: KMG - Baker Red V 1-14A WH

FL02(1-14)@3'
8/29/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408834-03 (Soil)

Table 915 metals by EPA 6020B

Barium	186		9.41	mg/kg	10	B4H2959	08/29/2024	08/30/2024	
Cadmium	23.1		0.0941	"	"	"	"	"	
Copper	2180		94.1	"	100	"	"	08/30/2024	
Lead	1990		9.41	"	"	"	"	"	
Nickel	18.6		0.941	"	10	"	"	08/30/2024	
Selenium	0.568		0.245	"	"	"	"	"	
Silver	33.0		0.0941	"	"	"	"	"	
Zinc	4560		348	"	100	"	"	08/30/2024	

Total Metals 7196 A

Hexavalent Chromium	ND	0.216	0.540	mg/kg dry	1	2676796	09/27/2024	10/02/2024	U
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Project Number: 09A1417866
Project: KMG - Baker Red V 1-14A WH

FL02(1-14)@3'-V
8/29/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408834-04 (Soil)

PAH by EPA 8270E extracted via 3580A

Benzo (a) anthracene	0.009	0.005	mg/kg	1	B410628	09/06/2024	09/06/2024
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Surrogate: Fluorene-d10	105 %	60-130	"	"	"	"	"
Surrogate: Anthracene-d10	90.9 %	60-130	"	"	"	"	"
Surrogate: Pyrene-d10	95.4 %	60-130	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.7 %	60-130	"	"	"	"	"

pH in Soil by 9045D

pH	8.46	pH Units	1	B4H3021	08/30/2024	09/01/2024
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Table 915 metals by EPA 6020B

Arsenic	166	0.270	mg/kg	10	B410638	09/06/2024	09/09/2024
Cadmium	19.1	0.0931	"	"	"	"	"
Copper	2210	9.31	"	"	"	"	"
Lead	1730	9.31	"	100	"	"	09/09/2024
Selenium	0.398	0.242	"	10	"	"	09/09/2024
Silver	25.4	0.0931	"	"	"	"	"
Zinc	5920	344	"	100	"	"	09/09/2024

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417866
 Project: KMG - Baker Red V 1-14A WH

FL03(1-14)@3'
8/29/2024 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408834-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B4H3011	08/30/2024	08/31/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4H2947	08/29/2024	08/30/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	109 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4H2961	08/29/2024	08/29/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	0.214		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417866
 Project: KMG - Baker Red V 1-14A WH

FL03(1-14)@3'
8/29/2024 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408834-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	105 %		70-130			B4H29 61	08/29/2024	08/29/2024	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	08/30/2024	08/31/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.572		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H2946	08/29/2024	08/30/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417866
 Project: KMG - Baker Red V 1-14A WH

FL03(1-14)@3'
8/29/2024 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408834-05 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4H2946	08/29/2024	08/30/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	94.4 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	99.8 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.98			pH Units	1	B4H3015	08/30/2024	08/31/2024	
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SAR by 20B Saturated Paste

SAR	1.59		0.0100	SAR	1	B4H3006	08/30/2024	08/31/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.119		0.00500	mmhos/cm	1	B4H3015	08/30/2024	08/31/2024	
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Table 915 metals by EPA 6020B

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 Project: KMG - Baker Red V 1-14A WH

FL03(1-14)@3'
8/29/2024 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408834-05 (Soil)

Table 915 metals by EPA 6020B

Arsenic	0.788		0.253	mg/kg	10	B4H2959	08/29/2024	08/30/2024	
Barium	11.2		8.71	"	"	"	"	"	
Cadmium	ND		0.0871	"	"	"	"	"	
Copper	ND		8.71	"	"	"	"	"	
Lead	3.12		0.871	"	"	"	"	"	
Nickel	1.12		0.871	"	"	"	"	"	
Selenium	ND		0.226	"	"	"	"	"	
Silver	ND		0.0871	"	"	"	"	"	
Zinc	ND		32.2	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.135	0.337	mg/kg dry	1	2676794	09/27/2024	10/02/2024	U
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FL03(1-14)@3'-V

8/29/2024 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408834-06 (Soil)

pH in Soil by 9045D

pH	8.11			pH Units	1	B4H3021	08/30/2024	09/01/2024	
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Jeremy Espinoza
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 Project: KMG - Baker Red V 1-14A WH

GW01

8/28/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408834-07 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B4H2939	08/29/2024	08/29/2024	Ua
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	Ua
Benzene	ND		1.00	"	"	"	"	"	Ua
Ethylbenzene	ND		1.00	"	"	"	"	"	Ua
Naphthalene	ND		2.00	"	"	"	"	"	Ua
Toluene	ND		1.00	"	"	"	"	"	Ua
Xylenes, total	ND		1.00	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	92.0 %		70-130			"	"	"	
Surrogate: Toluene-d8	103 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.1 %		70-130			"	"	"	

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 Project: KMG - Baker Red V 1-14A WH

GW02

8/28/2024 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408834-08 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	3.57		2.00	ug/L	1	B4H2942	08/29/2024	08/29/2024	
1,3,5-Trimethylbenzene	2.38		2.00	"	"	"	"	"	
Benzene	ND		1.00	"	"	"	"	"	Ua
Ethylbenzene	ND		1.00	"	"	"	"	"	Ua
Naphthalene	ND		2.00	"	"	"	"	"	Ua
Toluene	ND		1.00	"	"	"	"	"	Ua
Xylenes, total	ND		1.00	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	92.9 %		70-130			"	"	"
Surrogate: Toluene-d8	102 %		70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	91.8 %		70-130			"	"	"

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Jeremy Espinoza
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 Project: KMG - Baker Red V 1-14A WH

GW03

8/28/2024 3:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408834-09 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B4H2942	08/29/2024	08/29/2024	Ua
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	Ua
Benzene	ND		1.00	"	"	"	"	"	Ua
Ethylbenzene	ND		1.00	"	"	"	"	"	Ua
Naphthalene	ND		2.00	"	"	"	"	"	Ua
Toluene	ND		1.00	"	"	"	"	"	Ua
Xylenes, total	ND		1.00	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	94.2 %		70-130			"	"	"	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.5 %		70-130			"	"	"	

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 Project: KMG - Baker Red V 1-14A WH

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2939 - EPA 5030B (Water)

Blank (B4H2939-BLK1)

Prepared: 08/29/2024 Analyzed: 08/29/2024

1,2,4-Trimethylbenzene	ND	2.00	ug/L							Ua
1,3,5-Trimethylbenzene	ND	2.00	"							Ua
Benzene	ND	1.00	"							Ua
Ethylbenzene	ND	1.00	"							Ua
Naphthalene	ND	2.00	"							Ua
Toluene	ND	1.00	"							Ua
Xylenes, total	ND	1.00	"							Ua
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5	92.6		70-130			
Surrogate: Toluene-d8	63		"	62.5	100		70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5	95.7		70-130			

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Jeremy Espinoza
 Project Number: 09A1417866
 Project: KMG - Baker Red V 1-14A WH

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2939 - EPA 5030B (Water)

LCS (B4H2939-BS1)

Prepared: 08/29/2024 Analyzed: 08/29/2024

1,2,4-Trimethylbenzene	40.5	2.00	ug/L	50.0		81.1	70-130			
1,3,5-Trimethylbenzene	41.0	2.00	"	50.0		82.0	70-130			
Benzene	40.6	1.00	"	50.0		81.3	70-130			
Ethylbenzene	39.9	1.00	"	50.0		79.8	70-130			
m,p-Xylene	79.0	2.00	"	100		79.0	70-130			
Naphthalene	47.5	2.00	"	50.0		95.1	70-130			
o-Xylene	39.5	1.00	"	50.0		79.0	70-130			
Toluene	39.4	1.00	"	50.0		78.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.7	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2939 - EPA 5030B (Water)

Matrix Spike (B4H2939-MS1)	Source: Y408682-01			Prepared: 08/29/2024 Analyzed: 08/29/2024						
1,2,4-Trimethylbenzene	53.8	2.00	ug/L	50.0	1.55	104	70-130			
1,3,5-Trimethylbenzene	55.1	2.00	"	50.0	0.440	109	70-130			
Benzene	53.5	1.00	"	50.0	ND	107	70-130			
Ethylbenzene	53.2	1.00	"	50.0	ND	106	70-130			
m,p-Xylene	106	2.00	"	100	1.19	105	70-130			
Naphthalene	60.2	2.00	"	50.0	0.570	119	70-130			
o-Xylene	50.5	1.00	"	50.0	0.260	100	70-130			
Toluene	51.7	1.00	"	50.0	0.130	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		90.3	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.6	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2939 - EPA 5030B (Water)

Matrix Spike Dup (B4H2939-MSD1)	Source: Y408682-01			Prepared: 08/29/2024 Analyzed: 08/29/2024						
1,2,4-Trimethylbenzene	52.5	2.00	ug/L	50.0	1.55	102	70-130	2.39	20	
1,3,5-Trimethylbenzene	54.6	2.00	"	50.0	0.440	108	70-130	1.00	20	
Benzene	54.6	1.00	"	50.0	ND	109	70-130	2.02	20	
Ethylbenzene	53.6	1.00	"	50.0	ND	107	70-130	0.693	20	
m,p-Xylene	107	2.00	"	100	1.19	106	70-130	0.582	20	
Naphthalene	59.2	2.00	"	50.0	0.570	117	70-130	1.73	20	
o-Xylene	51.0	1.00	"	50.0	0.260	101	70-130	0.887	20	
Toluene	53.2	1.00	"	50.0	0.130	106	70-130	2.94	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.2	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		96.9	70-130			

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 Project: KMG - Baker Red V 1-14A WH

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2942 - EPA 5030B (Water)

Blank (B4H2942-BLK1)

Prepared: 08/29/2024 Analyzed: 08/29/2024

1,2,4-Trimethylbenzene	ND	2.00	ug/L							Ua
1,3,5-Trimethylbenzene	ND	2.00	"							Ua
Benzene	ND	1.00	"							Ua
Ethylbenzene	ND	1.00	"							Ua
Naphthalene	ND	2.00	"							Ua
Toluene	ND	1.00	"							Ua
Xylenes, total	ND	1.00	"							Ua
<i>Surrogate: 1,2-Dichloroethane-d4</i>	59		"	62.5		94.4	70-130			
<i>Surrogate: Toluene-d8</i>	63		"	62.5		100	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	60		"	62.5		95.5	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2942 - EPA 5030B (Water)

LCS (B4H2942-BS1)

Prepared: 08/29/2024 Analyzed: 08/29/2024

1,2,4-Trimethylbenzene	42.7	2.00	ug/L	50.0		85.3	70-130			
1,3,5-Trimethylbenzene	42.3	2.00	"	50.0		84.7	70-130			
Benzene	41.4	1.00	"	50.0		82.8	70-130			
Ethylbenzene	41.1	1.00	"	50.0		82.3	70-130			
m,p-Xylene	81.4	2.00	"	100		81.4	70-130			
Naphthalene	47.2	2.00	"	50.0		94.5	70-130			
o-Xylene	40.2	1.00	"	50.0		80.5	70-130			
Toluene	40.2	1.00	"	50.0		80.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2942 - EPA 5030B (Water)

Matrix Spike (B4H2942-MS1)	Source: Y408799-01			Prepared: 08/29/2024 Analyzed: 08/29/2024						
1,2,4-Trimethylbenzene	52.1	2.00	ug/L	50.0	ND	104	70-130			
1,3,5-Trimethylbenzene	54.4	2.00	"	50.0	ND	109	70-130			
Benzene	50.6	1.00	"	50.0	ND	101	70-130			
Ethylbenzene	53.4	1.00	"	50.0	ND	107	70-130			
m,p-Xylene	106	2.00	"	100	ND	106	70-130			
Naphthalene	52.2	2.00	"	50.0	ND	104	70-130			
o-Xylene	50.7	1.00	"	50.0	ND	101	70-130			
Toluene	49.1	1.00	"	50.0	ND	98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		90.3	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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Jeremy Espinoza
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 Project: KMG - Baker Red V 1-14A WH

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2942 - EPA 5030B (Water)

Matrix Spike Dup (B4H2942-MSD1)	Source: Y408799-01			Prepared: 08/29/2024 Analyzed: 08/29/2024						
1,2,4-Trimethylbenzene	51.1	2.00	ug/L	50.0	ND	102	70-130	1.90	20	
1,3,5-Trimethylbenzene	53.5	2.00	"	50.0	ND	107	70-130	1.80	20	
Benzene	48.9	1.00	"	50.0	ND	97.8	70-130	3.52	20	
Ethylbenzene	51.7	1.00	"	50.0	ND	103	70-130	3.20	20	
m,p-Xylene	103	2.00	"	100	ND	103	70-130	2.64	20	
Naphthalene	52.7	2.00	"	50.0	ND	105	70-130	0.895	20	
o-Xylene	49.8	1.00	"	50.0	ND	99.6	70-130	1.85	20	
Toluene	48.2	1.00	"	50.0	ND	96.5	70-130	1.83	20	
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.9	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4H2947 - EPA 3550B										
Blank (B4H2947-BLK1)										
					Prepared: 08/29/2024 Analyzed: 08/29/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	28		"	24.9		111	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2947 - EPA 3550B

LCS (B4H2947-BS1)

Prepared: 08/29/2024 Analyzed: 08/29/2024

Diesel (C10-C28)	920	50.0	mg/kg	1000		92.0	70-130			
Residual Range Organics (C28-C40)	985	200	"	1000		98.5	70-130			
Surrogate: o-Terphenyl	70		"	49.8		140	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2947 - EPA 3550B

Matrix Spike (B4H2947-MS1)	Source: Y408832-01			Prepared: 08/29/2024 Analyzed: 08/29/2024						
Diesel (C10-C28)	865	50.0	mg/kg	1000	ND	86.5	70-130			
Residual Range Organics (C28-C40)	924	200	"	1000	ND	92.4	70-130			
Surrogate: o-Terphenyl	55		"	49.8		110	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4H2947 - EPA 3550B										
Matrix Spike Dup (B4H2947-MSD1)		Source: Y408832-01			Prepared: 08/29/2024 Analyzed: 08/29/2024					
Diesel (C10-C28)	930	50.0	mg/kg	1000	ND	93.0	70-130	7.19	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130	8.83	35	
Surrogate: o-Terphenyl	59		"	49.8		118	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2961 - EPA 5030 (soil)

Blank (B4H2961-BLK1)

Prepared: 08/29/2024 Analyzed: 08/29/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	104		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	107		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	103		70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2961 - EPA 5030 (soil)

LCS (B4H2961-BS1)

Prepared: 08/29/2024 Analyzed: 08/29/2024

1,2,4-Trimethylbenzene	0.0914	0.00200	mg/kg	0.100		91.4	70-130			
1,3,5-Trimethylbenzene	0.0927	0.00200	"	0.100		92.7	70-130			
Benzene	0.0808	0.00200	"	0.100		80.8	70-130			
Ethylbenzene	0.0913	0.00200	"	0.100		91.3	70-130			
Naphthalene	0.0832	0.00380	"	0.100		83.2	70-130			
Toluene	0.0824	0.00200	"	0.100		82.4	70-130			
o-Xylene	0.0884	0.00200	"	0.100		88.4	70-130			
m,p-Xylene	0.181	0.00400	"	0.200		90.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2961 - EPA 5030 (soil)

Matrix Spike (B4H2961-MS1)	Source: Y408834-01			Prepared: 08/29/2024 Analyzed: 08/29/2024						
1,2,4-Trimethylbenzene	0.0941	0.00200	mg/kg	0.100	ND	94.1	70-130			
1,3,5-Trimethylbenzene	0.0952	0.00200	"	0.100	ND	95.2	70-130			
Benzene	0.0919	0.00200	"	0.100	ND	91.9	70-130			
Ethylbenzene	0.0967	0.00200	"	0.100	ND	96.7	70-130			
Naphthalene	0.0791	0.00380	"	0.100	ND	79.1	70-130			
Toluene	0.0912	0.00200	"	0.100	ND	91.2	70-130			
o-Xylene	0.0953	0.00200	"	0.100	ND	95.3	70-130			
m,p-Xylene	0.192	0.00400	"	0.200	ND	95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		108	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2961 - EPA 5030 (soil)

Matrix Spike Dup (B4H2961-MSD1)	Source: Y408834-01			Prepared: 08/29/2024 Analyzed: 08/29/2024						
1,2,4-Trimethylbenzene	0.0758	0.00200	mg/kg	0.100	ND	75.8	70-130	21.6	20	QR-02
1,3,5-Trimethylbenzene	0.0775	0.00200	"	0.100	ND	77.5	70-130	20.5	20	QR-02
Benzene	0.0769	0.00200	"	0.100	ND	76.9	70-130	17.8	20	
Ethylbenzene	0.0794	0.00200	"	0.100	ND	79.4	70-130	19.6	20	
Naphthalene	0.0658	0.00380	"	0.100	ND	65.8	70-130	18.4	20	QM-07
Toluene	0.0751	0.00200	"	0.100	ND	75.1	70-130	19.3	20	
o-Xylene	0.0774	0.00200	"	0.100	ND	77.4	70-130	20.7	20	QR-02
m,p-Xylene	0.158	0.00400	"	0.200	ND	78.9	70-130	19.4	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

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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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2959 - EPA 3050B

Blank (B4H2959-BLK1)

Prepared: 08/29/2024 Analyzed: 08/30/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B4H2959-BS1)

Prepared: 08/29/2024 Analyzed: 08/30/2024

Arsenic	5.09	0.290	mg/kg	5.00		102	80-120			
Barium	500	10.0	"	500		99.9	80-120			
Cadmium	5.34	0.100	"	5.00		107	80-120			
Copper	50.9	10.0	"	50.0		102	80-120			
Lead	4.97	1.00	"	5.00		99.3	80-120			
Nickel	5.17	1.00	"	5.00		103	80-120			
Selenium	5.00	0.260	"	5.00		100	80-120			
Silver	5.49	0.100	"	5.00		110	80-120			
Zinc	50.9	37.0	"	50.0		102	80-120			

Matrix Spike (B4H2959-MS1)

Source: Y408834-03

Prepared: 08/29/2024 Analyzed: 08/30/2024

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2959 - EPA 3050B

Matrix Spike (B4H2959-MS1)		Source: Y408834-03			Prepared: 08/29/2024 Analyzed: 08/30/2024					
Arsenic	176	0.286	mg/kg	4.94	177	NR	75-125			QM-07
Barium	712	9.88	"	494	186	107	75-125			
Cadmium	26.8	0.0988	"	4.94	23.1	76.2	75-125			
Copper	2080	98.8	"	49.4	2180	NR	75-125			QM-4X
Lead	1840	9.88	"	4.94	1990	NR	75-125			QM-4X
Nickel	24.2	0.988	"	4.94	18.6	114	75-125			
Selenium	5.44	0.257	"	4.94	0.568	98.7	75-125			
Silver	36.9	0.0988	"	4.94	33.0	78.8	75-125			
Zinc	4220	365	"	49.4	4560	NR	75-125			QM-4X

Matrix Spike Dup (B4H2959-MSD1)		Source: Y408834-03			Prepared: 08/29/2024 Analyzed: 08/30/2024					
Arsenic	170	0.263	mg/kg	4.53	177	NR	75-125	3.67	20	QM-4X
Barium	690	9.06	"	453	186	111	75-125	3.21	20	
Cadmium	27.8	0.0906	"	4.53	23.1	104	75-125	3.49	20	
Copper	2060	90.6	"	45.3	2180	NR	75-125	0.912	20	QM-4X
Lead	1910	9.06	"	4.53	1990	NR	75-125	3.64	20	QM-4X
Nickel	23.3	0.906	"	4.53	18.6	104	75-125	3.84	20	
Selenium	5.05	0.236	"	4.53	0.568	99.0	75-125	7.39	20	
Silver	35.5	0.0906	"	4.53	33.0	56.4	75-125	3.68	20	QM-07
Zinc	4390	335	"	45.3	4560	NR	75-125	3.75	20	QM-4X

Batch B4I0330 - EPA 3050B

Blank (B4I0330-BLK1)		Prepared: 09/03/2024 Analyzed: 09/04/2024								
Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							

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Metals by EPA 6000/7000 Series Methods - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4I0330 - EPA 3050B

Blank (B4I0330-BLK1)

Prepared: 09/03/2024 Analyzed: 09/04/2024

Copper	ND	10.0	mg/kg						
Lead	ND	1.00	"						
Nickel	ND	1.00	"						
Selenium	ND	0.260	"						
Silver	ND	0.100	"						
Zinc	ND	37.0	"						

LCS (B4I0330-BS1)

Prepared: 09/03/2024 Analyzed: 09/04/2024

Arsenic	5.17	0.290	mg/kg	5.00		103	80-120
Barium	531	10.0	"	500		106	80-120
Cadmium	5.13	0.100	"	5.00		103	80-120
Copper	50.9	10.0	"	50.0		102	80-120
Lead	5.20	1.00	"	5.00		104	80-120
Nickel	5.21	1.00	"	5.00		104	80-120
Selenium	5.17	0.260	"	5.00		103	80-120
Silver	5.28	0.100	"	5.00		106	80-120
Zinc	52.6	37.0	"	50.0		105	80-120

Matrix Spike (B4I0330-MS1)

Source: Y408828-03

Prepared: 09/03/2024 Analyzed: 09/04/2024

Arsenic	7.29	0.250	mg/kg	4.30	2.95	101	75-125
Barium	525	8.60	"	430	99.5	98.9	75-125
Cadmium	4.43	0.0860	"	4.30	0.157	99.2	75-125
Copper	52.9	8.60	"	43.0	10.5	98.4	75-125
Lead	13.6	0.860	"	4.30	8.81	112	75-125
Nickel	13.9	0.860	"	4.30	8.68	123	75-125
Selenium	4.59	0.224	"	4.30	0.141	103	75-125
Silver	4.43	0.0860	"	4.30	0.0544	102	75-125

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Metals by EPA 6000/7000 Series Methods - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4I0330 - EPA 3050B

Matrix Spike (B4I0330-MS1) **Source: Y408828-03** Prepared: 09/03/2024 Analyzed: 09/04/2024

Zinc	82.1	31.8	mg/kg	43.0	36.0	107	75-125			
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Matrix Spike Dup (B4I0330-MSD1) **Source: Y408828-03** Prepared: 09/03/2024 Analyzed: 09/04/2024

Arsenic	7.25	0.278	mg/kg	4.79	2.95	89.9	75-125	0.445	20	
Barium	565	9.57	"	479	99.5	97.1	75-125	7.25	20	
Cadmium	4.98	0.0957	"	4.79	0.157	101	75-125	11.8	20	
Copper	56.8	9.57	"	47.9	10.5	96.6	75-125	7.11	20	
Lead	13.2	0.957	"	4.79	8.81	91.1	75-125	3.49	20	
Nickel	13.0	0.957	"	4.79	8.68	89.9	75-125	7.20	20	
Selenium	4.93	0.249	"	4.79	0.141	100	75-125	7.25	20	
Silver	5.05	0.0957	"	4.79	0.0544	104	75-125	13.0	20	
Zinc	81.2	35.4	"	47.9	36.0	94.3	75-125	1.09	20	

Batch B4I0638 - EPA 3050B

Blank (B4I0638-BLK1) Prepared: 09/06/2024 Analyzed: 09/09/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B4I0638-BS1) Prepared: 09/06/2024 Analyzed: 09/09/2024

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417866
 Project: KMG - Baker Red V 1-14A WH

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4I0638 - EPA 3050B

LCS (B4I0638-BS1)

Prepared: 09/06/2024 Analyzed: 09/09/2024

Arsenic	5.66	0.290	mg/kg	5.00		113	80-120		
Barium	514	10.0	"	500		103	80-120		
Cadmium	5.10	0.100	"	5.00		102	80-120		
Copper	59.2	10.0	"	50.0		118	80-120		
Lead	5.08	1.00	"	5.00		102	80-120		
Nickel	5.43	1.00	"	5.00		109	80-120		
Selenium	5.41	0.260	"	5.00		108	80-120		
Silver	5.06	0.100	"	5.00		101	80-120		
Zinc	56.1	37.0	"	50.0		112	80-120		

Matrix Spike (B4I0638-MS1)

Source: E409137-03

Prepared: 09/06/2024 Analyzed: 09/09/2024

Arsenic	8.24	0.271	mg/kg	4.67	2.93	114	75-125		
Barium	611	9.35	"	467	146	99.7	75-125		
Cadmium	4.94	0.0935	"	4.67	0.188	102	75-125		
Copper	66.5	9.35	"	46.7	14.7	111	75-125		
Lead	15.9	0.935	"	4.67	11.3	98.7	75-125		
Nickel	22.2	0.935	"	4.67	16.7	117	75-125		
Selenium	4.67	0.243	"	4.67	0.206	95.5	75-125		
Silver	4.73	0.0935	"	4.67	0.0395	100	75-125		
Zinc	105	34.6	"	46.7	54.5	108	75-125		

Matrix Spike Dup (B4I0638-MSD1)

Source: E409137-03

Prepared: 09/06/2024 Analyzed: 09/09/2024

Arsenic	8.69	0.285	mg/kg	4.91	2.93	117	75-125	5.31	20
Barium	671	9.82	"	491	146	107	75-125	9.35	20
Cadmium	5.47	0.0982	"	4.91	0.188	108	75-125	10.1	20
Copper	70.3	9.82	"	49.1	14.7	113	75-125	5.47	20
Lead	16.6	0.982	"	4.91	11.3	108	75-125	4.20	20

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B410638 - EPA 3050B

Matrix Spike Dup (B410638-MSD1)	Source: E409137-03			Prepared: 09/06/2024 Analyzed: 09/09/2024						
Nickel	22.2	0.982	mg/kg	4.91	16.7	111	75-125	0.0897	20	
Selenium	5.70	0.255	"	4.91	0.206	112	75-125	20.0	20	
Silver	5.23	0.0982	"	4.91	0.0395	106	75-125	10.1	20	
Zinc	107	36.3	"	49.1	54.5	108	75-125	2.32	20	

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2946 - EPA 3580

Blank (B4H2946-BLK1)

Prepared: 08/29/2024 Analyzed: 08/30/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	190		"	200		93.5	60-130			
Surrogate: Pyrene-d10	220		"	200		108	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.5	60-130			

LCS (B4H2946-BS1)

Prepared: 08/29/2024 Analyzed: 08/30/2024

1-Methylnaphthalene	0.199	0.002	mg/kg	0.200		99.7	70-130			
2-Methylnaphthalene	0.199	0.002	"	0.200		99.5	70-130			
Acenaphthene	0.204	0.020	"	0.200		102	70-130			
Anthracene	0.173	0.020	"	0.200		86.4	70-130			

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Project: KMG - Baker Red V 1-14A WH

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2946 - EPA 3580

LCS (B4H2946-BS1)

Prepared: 08/29/2024 Analyzed: 08/30/2024

Benzo (a) anthracene	0.187	0.005	mg/kg	0.200		93.6	70-130			
Benzo (a) pyrene	0.190	0.020	"	0.200		95.2	70-130			
Benzo (b) fluoranthene	0.199	0.020	"	0.200		99.5	70-130			
Benzo (g,h,i) perylene	0.205	0.020	"	0.200		102	70-130			
Benzo (k) fluoranthene	0.204	0.020	"	0.200		102	70-130			
Chrysene	0.197	0.020	"	0.200		98.6	70-130			
Dibenz (a,h) anthracene	0.199	0.020	"	0.200		99.7	70-130			
Fluoranthene	0.221	0.020	"	0.200		110	70-130			
Fluorene	0.199	0.020	"	0.200		99.3	70-130			
Indeno (1,2,3-cd) pyrene	0.202	0.020	"	0.200		101	70-130			
Naphthalene	0.201	0.002	"	0.200		101	70-130			
Phenanthrene	0.191	0.020	"	0.200		95.3	70-130			
Pyrene	0.208	0.020	"	0.200		104	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	180		"	200		90.2	60-130			
Surrogate: Pyrene-d10	220		"	200		108	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

Matrix Spike (B4H2946-MS1)

Source: Y408832-01

Prepared: 08/29/2024 Analyzed: 08/30/2024

1-Methylnaphthalene	0.208	0.002	mg/kg	0.200	ND	104	70-130			
2-Methylnaphthalene	0.203	0.002	"	0.200	0.001	101	70-130			
Acenaphthene	0.204	0.020	"	0.200	0.003	100	70-130			
Anthracene	0.176	0.020	"	0.200	0.001	87.6	70-130			
Benzo (a) anthracene	0.184	0.005	"	0.200	0.002	91.4	70-130			
Benzo (a) pyrene	0.190	0.020	"	0.200	0.002	93.9	70-130			
Benzo (b) fluoranthene	0.204	0.020	"	0.200	ND	102	70-130			
Benzo (g,h,i) perylene	0.203	0.020	"	0.200	ND	102	70-130			

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 Project: KMG - Baker Red V 1-14A WH

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2946 - EPA 3580

Matrix Spike (B4H2946-MS1)	Source: Y408832-01			Prepared: 08/29/2024 Analyzed: 08/30/2024						
Benzo (k) fluoranthene	0.183	0.020	mg/kg	0.200	ND	91.3	70-130			
Chrysene	0.188	0.020	"	0.200	ND	94.1	70-130			
Dibenz (a,h) anthracene	0.202	0.020	"	0.200	0.002	100	70-130			
Fluoranthene	0.226	0.020	"	0.200	0.001	113	70-130			
Fluorene	0.200	0.020	"	0.200	ND	99.8	70-130			
Indeno (1,2,3-cd) pyrene	0.204	0.020	"	0.200	0.001	101	70-130			
Naphthalene	0.206	0.002	"	0.200	ND	103	70-130			
Phenanthrene	0.198	0.020	"	0.200	0.0007	98.4	70-130			
Pyrene	0.214	0.020	"	0.200	0.001	107	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.4	60-130			
Surrogate: Anthracene-d10	180		"	200		92.1	60-130			
Surrogate: Pyrene-d10	220		"	200		108	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B4H2946-MSD1)	Source: Y408832-01			Prepared: 08/29/2024 Analyzed: 08/30/2024						
1-Methylnaphthalene	0.199	0.002	mg/kg	0.200	ND	99.5	70-130	4.21	20	
2-Methylnaphthalene	0.199	0.002	"	0.200	0.001	98.9	70-130	1.79	20	
Acenaphthene	0.206	0.020	"	0.200	0.003	102	70-130	1.27	20	
Anthracene	0.173	0.020	"	0.200	0.001	86.0	70-130	1.76	20	
Benzo (a) anthracene	0.181	0.005	"	0.200	0.002	89.5	70-130	2.06	20	
Benzo (a) pyrene	0.190	0.020	"	0.200	0.002	93.9	70-130	0.0687	20	
Benzo (b) fluoranthene	0.188	0.020	"	0.200	ND	94.2	70-130	8.16	20	
Benzo (g,h,i) perylene	0.211	0.020	"	0.200	ND	106	70-130	3.69	20	
Benzo (k) fluoranthene	0.167	0.020	"	0.200	ND	83.5	70-130	8.98	20	
Chrysene	0.201	0.020	"	0.200	ND	100	70-130	6.41	20	
Dibenz (a,h) anthracene	0.209	0.020	"	0.200	0.002	103	70-130	3.26	20	
Fluoranthene	0.233	0.020	"	0.200	0.001	116	70-130	3.07	20	

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2946 - EPA 3580

Matrix Spike Dup (B4H2946-MSD1)	Source: Y408832-01			Prepared: 08/29/2024 Analyzed: 08/30/2024						
Fluorene	0.196	0.020	mg/kg	0.200	ND	98.2	70-130	1.61	20	
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200	0.001	103	70-130	1.18	20	
Naphthalene	0.202	0.002	"	0.200	ND	101	70-130	1.85	20	
Phenanthrene	0.193	0.020	"	0.200	0.0007	96.3	70-130	2.11	20	
Pyrene	0.214	0.020	"	0.200	0.001	107	70-130	0.0703	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.2	60-130			
Surrogate: Anthracene-d10	190		"	200		93.9	60-130			
Surrogate: Pyrene-d10	220		"	200		109	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Batch B4I0628 - EPA 3580

Blank (B4I0628-BLK1)	Prepared: 09/06/2024 Analyzed: 09/06/2024									
1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B410628 - EPA 3580

Blank (B410628-BLK1)

Prepared: 09/06/2024 Analyzed: 09/06/2024

Naphthalene	ND	0.002	mg/kg							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	180		"	200		90.5	60-130			
Surrogate: Pyrene-d10	200		"	200		97.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

LCS (B410628-BS1)

Prepared: 09/06/2024 Analyzed: 09/06/2024

1-Methylnaphthalene	0.178	0.002	mg/kg	0.200		89.1	70-130			
2-Methylnaphthalene	0.178	0.002	"	0.200		88.9	70-130			
Acenaphthene	0.185	0.020	"	0.200		92.6	70-130			
Anthracene	0.160	0.020	"	0.200		80.2	70-130			
Benzo (a) anthracene	0.157	0.005	"	0.200		78.3	70-130			
Benzo (a) pyrene	0.171	0.020	"	0.200		85.4	70-130			
Benzo (b) fluoranthene	0.217	0.020	"	0.200		109	70-130			
Benzo (g,h,i) perylene	0.188	0.020	"	0.200		93.9	70-130			
Benzo (k) fluoranthene	0.169	0.020	"	0.200		84.7	70-130			
Chrysene	0.166	0.020	"	0.200		82.9	70-130			
Dibenz (a,h) anthracene	0.196	0.020	"	0.200		98.2	70-130			
Fluoranthene	0.185	0.020	"	0.200		92.5	70-130			
Fluorene	0.184	0.020	"	0.200		92.1	70-130			
Indeno (1,2,3-cd) pyrene	0.186	0.020	"	0.200		93.1	70-130			
Naphthalene	0.182	0.002	"	0.200		91.1	70-130			
Phenanthrene	0.172	0.020	"	0.200		86.0	70-130			
Pyrene	0.170	0.020	"	0.200		85.0	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4I0628 - EPA 3580

LCS (B4I0628-BS1)

Prepared: 09/06/2024 Analyzed: 09/06/2024

Surrogate: Anthracene-d10	180		ug/kg	200		92.1	60-130			
Surrogate: Pyrene-d10	200		"	200		98.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

Matrix Spike (B4I0628-MS1)

Source: Y408834-04

Prepared: 09/06/2024 Analyzed: 09/06/2024

1-Methylnaphthalene	0.194	0.002	mg/kg	0.200	0.0005	96.7	70-130			
2-Methylnaphthalene	0.195	0.002	"	0.200	ND	97.3	70-130			
Acenaphthene	0.200	0.020	"	0.200	ND	100	70-130			
Anthracene	0.165	0.020	"	0.200	0.003	81.2	70-130			
Benzo (a) anthracene	0.183	0.005	"	0.200	0.009	86.7	70-130			
Benzo (a) pyrene	0.189	0.020	"	0.200	0.011	89.0	70-130			
Benzo (b) fluoranthene	0.246	0.020	"	0.200	0.007	120	70-130			
Benzo (g,h,i) perylene	0.203	0.020	"	0.200	0.003	99.9	70-130			
Benzo (k) fluoranthene	0.203	0.020	"	0.200	0.001	101	70-130			
Chrysene	0.193	0.020	"	0.200	0.008	92.5	70-130			
Dibenz (a,h) anthracene	0.205	0.020	"	0.200	ND	103	70-130			
Fluoranthene	0.231	0.020	"	0.200	0.019	106	70-130			
Fluorene	0.195	0.020	"	0.200	0.001	97.1	70-130			
Indeno (1,2,3-cd) pyrene	0.199	0.020	"	0.200	0.003	97.8	70-130			
Naphthalene	0.198	0.002	"	0.200	ND	99.0	70-130			
Phenanthrene	0.189	0.020	"	0.200	0.007	90.8	70-130			
Pyrene	0.212	0.020	"	0.200	0.018	97.3	70-130			

Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	170		"	200		87.5	60-130			
Surrogate: Pyrene-d10	200		"	200		99.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B4I0628-MSD1)

Source: Y408834-04

Prepared: 09/06/2024 Analyzed: 09/06/2024

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 Project: KMG - Baker Red V 1-14A WH

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B410628 - EPA 3580										
1-Methylnaphthalene	0.197	0.002	mg/kg	0.200	0.0005	98.4	70-130	1.73	20	
2-Methylnaphthalene	0.203	0.002	"	0.200	ND	102	70-130	4.39	20	
Acenaphthene	0.208	0.020	"	0.200	ND	104	70-130	3.65	20	
Anthracene	0.170	0.020	"	0.200	0.003	83.5	70-130	2.77	20	
Benzo (a) anthracene	0.194	0.005	"	0.200	0.009	92.4	70-130	5.98	20	
Benzo (a) pyrene	0.200	0.020	"	0.200	0.011	94.7	70-130	5.87	20	
Benzo (b) fluoranthene	0.248	0.020	"	0.200	0.007	121	70-130	0.799	20	
Benzo (g,h,i) perylene	0.207	0.020	"	0.200	0.003	102	70-130	2.17	20	
Benzo (k) fluoranthene	0.178	0.020	"	0.200	0.001	88.4	70-130	13.1	20	
Chrysene	0.194	0.020	"	0.200	0.008	93.1	70-130	0.621	20	
Dibenz (a,h) anthracene	0.214	0.020	"	0.200	ND	107	70-130	4.09	20	
Fluoranthene	0.227	0.020	"	0.200	0.019	104	70-130	1.72	20	
Fluorene	0.200	0.020	"	0.200	0.001	99.5	70-130	2.50	20	
Indeno (1,2,3-cd) pyrene	0.204	0.020	"	0.200	0.003	100	70-130	2.56	20	
Naphthalene	0.206	0.002	"	0.200	ND	103	70-130	3.80	20	
Phenanthrene	0.197	0.020	"	0.200	0.007	95.2	70-130	4.50	20	
Pyrene	0.209	0.020	"	0.200	0.018	95.7	70-130	1.51	20	
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	180		"	200		91.8	60-130			
Surrogate: Pyrene-d10	190		"	200		95.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.8	60-130			

Origins Laboratory



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417866
Project: KMG - Baker Red V 1-14A WH

Classical Chemistry Parameters - Quality Control Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H3005 - Saturated Paste Metals

Blank (B4H3005-BLK1)

Prepared: 08/30/2024 Analyzed: 08/31/2024

Calcium PPM	ND	10.0	mg/L						
SAR	ND	0.0100	SAR						
Magnesium PPM	ND	10.0	mg/L						
Sodium PPM	ND	10.0	"						

Duplicate (B4H3005-DUP1)

Source: Y408795-08

Prepared: 08/30/2024 Analyzed: 08/31/2024

Calcium PPM	52.8	10.0	mg/L		58.7			10.6	50
SAR	ND	0.0100	SAR		2.09				200
Magnesium PPM	11.8	10.0	mg/L		13.2			11.3	50
Sodium PPM	65.6	10.0	"		68.1			3.73	50

Batch B4H3006 - Saturated Paste Metals

Blank (B4H3006-BLK1)

Prepared: 08/30/2024 Analyzed: 08/31/2024

SAR	ND	0.0100	SAR						
Calcium PPM	ND	10.0	mg/L						
Magnesium PPM	ND	10.0	"						
Sodium PPM	ND	10.0	"						

Duplicate (B4H3006-DUP1)

Source: Y408834-03

Prepared: 08/30/2024 Analyzed: 08/31/2024

SAR	ND	0.0100	SAR		7.46				200
Calcium PPM	51.5	10.0	mg/L		50.8			1.43	50
Magnesium PPM	15.2	10.0	"		14.9			1.93	50
Sodium PPM	231	10.0	"		235			1.58	50

Batch B4H3011 - DTPA Sorbitol Preparation

Blank (B4H3011-BLK1)

Prepared: 08/30/2024 Analyzed: 08/31/2024

Origins Laboratory



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Jeremy Espinoza
 Project Number: 09A1417866
 Project: KMG - Baker Red V 1-14A WH

Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4H3011 - DTPA Sorbitol Preparation										
Blank (B4H3011-BLK1)					Prepared: 08/30/2024 Analyzed: 08/31/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4H3011-DUP1)					Source: Y408832-07 Prepared: 08/30/2024 Analyzed: 08/31/2024					
Boron	0.140	0.100	mg/L		0.148			5.50	50	

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 Project: KMG - Baker Red V 1-14A WH

**Saturated Paste - Quality Control
 Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H3014 - Saturated Paste pH/EC

Blank (B4H3014-BLK1)

Prepared: 08/30/2024 Analyzed: 08/31/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4H3014-DUP1)

Source: Y408795-08

Prepared: 08/30/2024 Analyzed: 08/31/2024

Specific Conductance (EC) 0.771 0.00500 mmhos/cm 0.856 10.4 25
 pH 8.19 pH Units 8.27 0.972 25

Batch B4H3015 - Saturated Paste pH/EC

Blank (B4H3015-BLK1)

Prepared: 08/30/2024 Analyzed: 08/31/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4H3015-DUP1)

Source: Y408834-03

Prepared: 08/30/2024 Analyzed: 08/31/2024

Specific Conductance (EC) 1.68 0.00500 mmhos/cm 1.60 4.42 25
 pH 8.31 pH Units 8.30 0.120 25

Batch B4H3021 - Saturated Paste pH/EC

Duplicate (B4H3021-DUP1)

Source: Y408798-40

Prepared: 08/30/2024 Analyzed: 09/01/2024

pH 7.99 pH Units 8.03 0.499 25

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Ensolum
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Jeremy Espinoza
Project Number: 09A1417866
Project: KMG - Baker Red V 1-14A WH

Total Metals 7196 A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2676796 - SW846 3060A										
BLANK (1205864354-BLK)					Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	ND	0.339	mg/kg				-			U
LCS (1205864355-BKS)					Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	3.86	0.381	mg/kg	3.81		101	80-120			
DUP (1205864356 D)					Source: 683907001 Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	ND	0.392	mg/kg dry		<0.157		0-50	N/A	50	U
MS (1205864357 S)					Source: 683907001 Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	2.98	0.343	mg/kg dry	3.43	<0.137	84.6	75-125			
DUP (1205864358 D)					Source: 683907002 Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	ND	0.381	mg/kg dry		<0.152		0-50	N/A	50	U
MS (1205864359 S)					Source: 683907002 Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	2.88	0.418	mg/kg dry	4.18	<0.167	67.2	75-125			
ILCS (1205864360-ILCS)					Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	6.86	0.331	mg/kg	6.66		103	80-120			

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417866
 Project: KMG - Baker Red V 1-14A WH

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2676794 - SW846 3060A										
BLANK (1205864347-BLK)					Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	ND	0.336	mg/kg				-			U
LCS (1205864348-BKS)					Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	3.25	0.328	mg/kg	3.28		99.1	80-120			
DUP (1205864349 D)					Source: 683900001 Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	ND	0.376	mg/kg dry		<0.150		0-50	N/A	50	U
MS (1205864350 S)					Source: 683900001 Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	2.28	0.379	mg/kg dry	3.79	<0.152	60	75-125			
DUP (1205864351 D)					Source: 683900002 Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	ND	0.394	mg/kg dry		<0.158		0-50	N/A	50	U
MS (1205864352 S)					Source: 683900002 Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	3.48	0.376	mg/kg dry	3.76	<0.151	92.4	75-125			
ILCS (1205864353-ILCS)					Prepared: 09/27/2024 Analyzed: 10/02/2024					
Hexavalent Chromium	7.82	0.381	mg/kg	7.66		102	80-120			

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Jeremy Espinoza
Project Number: 09A1417866
Project: KMG - Baker Red V 1-14A WH

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

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.

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