ORIGINS
LABORATORY, INC

ORIGINS LABORATORY, INC

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4210632

Client: Tasman

Client Project ID: HSR UPSON 14-6

Checklist Completed by: EHS/DE

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

Date/time completed: 10/26/22

Airbill #: NA

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

Cooler Number/Temperature: 1 / 5.1 °C ____ / ____ °C ____ / ____ °C ____ / ____ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C[1]?	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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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.

Reviewed by (Project Manager)

10/26/2022
Date/Time Reviewed

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.

ORIGINS LABORATORY, INC

			KAP		
			ADM		
			ADM		
Surrogate: o-Terphenyl	*91.8 %*	*50-150*	*"*	*"*	*"*
			JSM		
			JSM		
			JSM		
			JSM		
			JSM		
			JSM		
			JSM		
			JSM		
Surrogate: 1,2-Dichloroethane-d4	*110 %*	*70-130*	*"*	*"*	*"*
Surrogate: Toluene-d8	*97.1 %*	*70-130*	*"*	*"*	*"*
Surrogate: 4-Bromofluorobenzene	*95.7 %*	*70-130*	*"*	*"*	*"*

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ORIGINS LABORATORY, INC

KAP

KAP

KAP

HJD

KAP

HJD

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ORIGINS LABORATORY, INC

			KAP		
			ADM		
			ADM		
Surrogate: o-Terphenyl	*86.3 %*	*50-150*	*"*	*"*	*"*
			JSM		
			JSM		
			JSM		
			JSM		
			JSM		
			JSM		
			JSM		
			JSM		
Surrogate: 1,2-Dichloroethane-d4	*110 %*	*70-130*	*"*	*"*	*"*
Surrogate: Toluene-d8	*98.9 %*	*70-130*	*"*	*"*	*"*
Surrogate: 4-Bromofluorobenzene	*96.2 %*	*70-130*	*"*	*"*	*"*

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ORIGINS LABORATORY, INC

KAP

KAP

KAP

HJD

KAP

HJD

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ORIGINS LABORATORY, INC

KAP

KAP

KAP

KAP

HJD

KAP

HJD

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ORIGINS LABORATORY, INC

KAP

KAP

KAP

KAP

HJD

KAP

HJD

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ORIGINS LABORATORY, INC

KAP

KAP

KAP

KAP

HJD

KAP

HJD

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ORIGINS LABORATORY, INC

KAP

KAP

KAP

KAP

HJD

KAP

HJD

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.

ORIGINS LABORATORY, INC

Surrogate: 1,2-Dichloroethane-d4	*0.13*	*"*	*0.125*	*105*	*70-130*
Surrogate: Toluene-d8	*0.12*	*"*	*0.125*	*98.4*	*70-130*
Surrogate: 4-Bromofluorobenzene	*0.12*	*"*	*0.125*	*95.1*	*70-130*

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.

ORIGINS LABORATORY, INC

Surrogate: 1,2-Dichloroethane-d4	*0.13*	*mg/kg*	*0.125*	*102*	*70-130*
Surrogate: Toluene-d8	*0.12*	*"*	*0.125*	*98.3*	*70-130*
Surrogate: 4-Bromofluorobenzene	*0.13*	*"*	*0.125*	*103*	*70-130*

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.

ORIGINS LABORATORY, INC

Surrogate: 1,2-Dichloroethane-d4	*0.13*	*mg/kg*	*0.125*	*106*	*70-130*
Surrogate: Toluene-d8	*0.12*	*"*	*0.125*	*99.1*	*70-130*
Surrogate: 4-Bromofluorobenzene	*0.13*	*"*	*0.125*	*103*	*70-130*

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.

ORIGINS LABORATORY, INC

Surrogate: 1,2-Dichloroethane-d4	*0.13*	*mg/kg*	*0.125*	*106*	*70-130*
Surrogate: Toluene-d8	*0.12*	*"*	*0.125*	*96.7*	*70-130*
Surrogate: 4-Bromofluorobenzene	*0.13*	*"*	*0.125*	*105*	*70-130*

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.

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Surrogate: o-Terphenyl	*25*	*"*	*24.9*	*99.2*	*50-150*

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ORIGINS LABORATORY, INC

Surrogate: o-Terphenyl	*47*	*"*	*49.8*	*94.5*	*50-150*

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.

ORIGINS LABORATORY, INC

Surrogate: o-Terphenyl	*45*	*"*	*49.8*	*89.5*	*50-150*

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.

ORIGINS LABORATORY, INC

Surrogate: o-Terphenyl	*45*	*"*	*49.8*	*90.8*	*50-150*

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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.

November 03, 2022

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - HSR - Upson 14-6 **Project Number - -**

Attached are your analytical results for KMG - HSR - Upson 14-6 received by Origins Laboratory, Inc. October 27, 2022. This project is associated with Origins project number Y210683-01.

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

ORIGINS LABORATORY, INC

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: -
Project: KMG - HSR - Upson 14-6

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B07@4'	Y210683-01	Soil	October 27, 2022 13:30	10/27/2022 14:25
FL-B08@4'	Y210683-02	Soil	October 27, 2022 13:32	10/27/2022 14:25

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.

Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: -
Project: KMG - HSR - Upson 14-6

ORIGINS LABORATORY, INC

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

www.originslaboratory.com

Client: City of Iverson
Address: 6855 W. 119th Ave. Broomfield, CO 80020
Telephone Number: PM Contact Number (720) 939-3631
Email Address: City/name distribution list

Project Manager: Andy Sagen
Project Name: HSR UBOX 14-6
Project Number: —
Samples Collected By: P. Downs
Method Of Delivery (Circle One): Hand Delivered Pickup/Courier Lab Box Drop Service Center Drop Fed Ex UPS

4210683

Initial
page 1 of 1

	Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative: Unpreserved	HCl	HNO_3	Other	Matrix: Groundwater	Soil	Air Summa Canister #	Other	Analysis: GRO/BTEX/N+1MB	DRO/OHM	PAH	SAR	EC	pH	Boron	Full Table 915
1	FL-B0704'	10-27-22	13:30	2	X					X			X							
2	FL-B0804'	↓	13:38	↓	↓					↓			X							
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Please contact PM with any questions. Samples to be analyzed to Table 915 Parameters
For Table 915 analytes:
VOC: Carbon Tetrachloride, 1,2-DCA, PCE
SVOC: 1,4-Dioxane
Metals - As, Ba, Cd, Cr, Cu, Pb, Hg, Se, Ag, Zn
SOIL

Relinquished By: P. Downs — Date: 10-27-22 — Time: 1425
Received By: EHS — Date: 10-27-22 — Time: 1425
Relinquished By: — Date: — Time:
Received By: — Date: — Time:
Turnaround Time: Same Day ☑ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☐

O.S
Date Results Needed

Origins Laboratory, Inc.

JBynon

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

Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: -
Project: KMG - HSR - Upson 14-6

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4210083

Client: Tasman
Client Project ID: HSR Upson 14-6

Checklist Completed by: EHS
Date/time completed: 10/27/22

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

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

Cooler Number/Temperature: 1 / 0.5 °C ____ / ____ °C ____ / ____ °C ____ / ____ °C (Describe)

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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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.*

Reviewed by (Project Manager) — Date/Time Reviewed: 10/27/22

Origins Laboratory, Inc.

JBynon

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: -
Project: KMG - HSR - Upson 14-6

FL-B07@4'
10/27/2022 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y210683-01 (Soil)									
Boron (DTPA Sorbitol)									
Boron	ND	0.0994	mg/L	1	B2J2804	KAP	10/28/2022	10/31/2022	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J2734	ADM	10/27/2022	10/27/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U
Surrogate: o-Terphenyl	*93.4 %*	*50-150*			"		"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J2733	JSM	10/27/2022	10/27/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U
Surrogate: 1,2-Dichloroethane-d4	*77.7 %*	*70-130*			"		"	"	
Surrogate: Toluene-d8	*98.1 %*	*70-130*			"		"	"	
Surrogate: 4-Bromofluorobenzene	*98.4 %*	*70-130*			"		"	"	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: -
Project: KMG - HSR - Upson 14-6

FL-B07@4'
10/27/2022 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y210683-01 (Soil)									
Metals by Saturated Paste by EPA 6010									
Calcium	**0.672**	0.499	meq/L	10	[CALC]	KAP	10/28/2022	11/01/2022	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	ND	0.435	"	"	"	KAP	"	"	
pH in Soil by 9045D									
pH	**7.49**		pH Units	1	B2J3105	HJD	10/31/2022	11/01/2022	
SAR by 20B Saturated Paste									
SAR	**0.641**		SAR	1	B2J2801	KAP	10/28/2022	11/01/2022	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.165**	0.00500	mmhos/cm	1	B2J3105	HJD	10/31/2022	11/01/2022	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: -
Project: KMG - HSR - Upson 14-6

FL-B08@4'
10/27/2022 1:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y210683-02 (Soil)									
Boron (DTPA Sorbitol)									
Boron	ND	0.0986	mg/L	1	B2J2804	KAP	10/28/2022	10/31/2022	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J2734	ADM	10/27/2022	10/28/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U
Surrogate: o-Terphenyl	*72.4 %*	*50-150*				"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J2733	JSM	10/27/2022	10/27/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U
Surrogate: 1,2-Dichloroethane-d4	*78.7 %*	*70-130*				"	"	"	
Surrogate: Toluene-d8	*97.9 %*	*70-130*				"	"	"	
Surrogate: 4-Bromofluorobenzene	*97.9 %*	*70-130*				"	"	"	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: -
Project: KMG - HSR - Upson 14-6

FL-B08@4'
10/27/2022 1:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y210683-02 (Soil)									
Metals by Saturated Paste by EPA 6010									
Calcium	**1.39**	0.499	meq/L	10	[CALC]	KAP	10/28/2022	11/01/2022	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	ND	0.435	"	"	"	KAP	"	"	
pH in Soil by 9045D									
pH	**8.08**		pH Units	1	B2J3105	HJD	10/31/2022	11/01/2022	
SAR by 20B Saturated Paste									
SAR	**0.130**		SAR	1	B2J2801	KAP	10/28/2022	11/01/2022	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.237**	0.00500	mmhos/cm	1	B2J3105	HJD	10/31/2022	11/01/2022	

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: -
Project: KMG - HSR - Upson 14-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2J2733 - EPA 5030 (soil)										
Blank (B2J2733-BLK1)					Prepared: 10/27/2022 Analyzed: 10/27/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	*0.11*		*"*	*0.125*		*86.4*	*70-130*			
Surrogate: Toluene-d8	*0.13*		*"*	*0.125*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.12*		*"*	*0.125*		*100*	*70-130*			

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: -
Project: KMG - HSR - Upson 14-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2J2733 - EPA 5030 (soil)										
LCS (B2J2733-BS1)					Prepared: 10/27/2022 Analyzed: 10/27/2022					
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Benzene	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Naphthalene	0.0971	0.00380	"	0.100		97.1	70-130			
Toluene	0.107	0.00200	"	0.100		107	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.216	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.11*		*"*	*0.125*		*84.7*	*70-130*			
Surrogate: Toluene-d8	*0.13*		*"*	*0.125*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.12*		*"*	*0.125*		*96.8*	*70-130*			

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: -
Project: KMG - HSR - Upson 14-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2J2733 - EPA 5030 (soil)										
Matrix Spike (B2J2733-MS1)		**Source: Y210683-01**		Prepared: 10/27/2022 Analyzed: 10/28/2022						
1,2,4-Trimethylbenzene	0.0973	0.00200	mg/kg	0.100	0.000660	96.6	70-130			QM-07
1,3,5-Trimethylbenzene	0.0996	0.00200	"	0.100	ND	99.6	70-130			QM-07
Benzene	0.0952	0.00200	"	0.100	ND	95.2	70-130			
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			QM-07
Naphthalene	0.0771	0.00380	"	0.100	ND	77.1	70-130			QM-07
Toluene	0.0966	0.00200	"	0.100	ND	96.6	70-130			
o-Xylene	0.0999	0.00200	"	0.100	ND	99.9	70-130			QM-07
m,p-Xylene	0.200	0.00400	"	0.200	ND	100	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	*0.10*		*"*	*0.125*		*81.8*	*70-130*			*QM-07*
Surrogate: Toluene-d8	*0.13*		*"*	*0.125*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.13*		*"*	*0.125*		*102*	*70-130*			*QM-07*

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2J2733 - EPA 5030 (soil)										
Matrix Spike Dup (B2J2733-MSD1)		**Source: Y210683-01**		Prepared: 10/27/2022 Analyzed: 10/28/2022						
1,2,4-Trimethylbenzene	0.0902	0.00200	mg/kg	0.100	0.000660	89.6	70-130	7.49	20	QM-07
1,3,5-Trimethylbenzene	0.0912	0.00200	"	0.100	ND	91.2	70-130	8.87	20	QM-07
Benzene	0.0928	0.00200	"	0.100	ND	92.8	70-130	2.58	20	QM-07
Ethylbenzene	0.0935	0.00200	"	0.100	ND	93.5	70-130	7.67	20	QM-07
Naphthalene	0.0749	0.00380	"	0.100	ND	74.9	70-130	2.95	20	QM-07
Toluene	0.0935	0.00200	"	0.100	ND	93.5	70-130	3.30	20	
o-Xylene	0.0927	0.00200	"	0.100	ND	92.7	70-130	7.48	20	QM-07
m,p-Xylene	0.185	0.00400	"	0.200	ND	92.7	70-130	7.68	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	*0.10*		*"*	*0.125*		*82.4*	*70-130*			*QM-07*
Surrogate: Toluene-d8	*0.13*		*"*	*0.125*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.13*		*"*	*0.125*		*100*	*70-130*			*QM-07*

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2J2734 - EPA 3550B										
Blank (B2J2734-BLK1)					Prepared: 10/27/2022 Analyzed: 10/27/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	*25*		*"*	*24.9*		*98.9*	*50-150*			

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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 B2J2734 - EPA 3550B										
LCS (B2J2734-BS1)					Prepared: 10/27/2022 Analyzed: 10/27/2022					
Diesel (C10-C28)	975	50.0	mg/kg	1000		97.5	70-130			
Residual Range Organics (C28-C40)	785	200	"	1000		78.5	70-130			
Surrogate: o-Terphenyl	*45*		*"*	*49.8*		*90.9*	*50-150*			

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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 B2J2734 - EPA 3550B										
Matrix Spike (B2J2734-MS1)		**Source: Y210673-01**			Prepared: 10/27/2022 Analyzed: 10/27/2022					
Diesel (C10-C28)	1060	50.0	mg/kg	1000	ND	106	70-130			
Residual Range Organics (C28-C40)	836	200	"	1000	ND	83.6	70-130			
Surrogate: o-Terphenyl	*45*		*"*	*49.8*		*90.2*	*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 B2J2734 - EPA 3550B										
Matrix Spike Dup (B2J2734-MSD1)		**Source: Y210673-01**			Prepared: 10/27/2022 Analyzed: 10/27/2022					
Diesel (C10-C28)	984	50.0	mg/kg	1000	ND	98.4	70-130	7.31	35	
Residual Range Organics (C28-C40)	819	200	"	1000	ND	81.9	70-130	2.09	35	
Surrogate: o-Terphenyl	*43*		*"*	*49.8*		*85.8*	*50-150*			

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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

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2J2801 - Saturated Paste										
Blank (B2J2801-BLK1)					Prepared: 10/28/2022 Analyzed: 11/01/2022					
Calcium PPM	ND	10.0	mg/L							
SAR	0.00		SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							
Duplicate (B2J2801-DUP1)		**Source: Y210669-02**			Prepared: 10/28/2022 Analyzed: 11/01/2022					
Calcium PPM	323	10.0	mg/L		393			19.4	50	
SAR	0.00		SAR		6.57			200	200	
Magnesium PPM	165	10.0	mg/L		174			5.38	50	
Sodium PPM	684	10.0	"		622			9.42	50	
Batch B2J2804 - DTPA Sorbitol Preparation										
Blank (B2J2804-BLK1)					Prepared: 10/28/2022 Analyzed: 10/31/2022					
Boron	ND	0.100	mg/L							
Duplicate (B2J2804-DUP1)		**Source: Y210675-01**			Prepared: 10/28/2022 Analyzed: 10/31/2022					
Boron	6.92	0.100	mg/L		6.78			2.11	50	

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Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2J3105 - NO PREP										
Blank (B2J3105-BLK1)					Prepared: 10/31/2022 Analyzed: 11/01/2022					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B2J3105-DUP1)		**Source: Y210669-02**			Prepared: 10/31/2022 Analyzed: 11/01/2022					
Specific Conductance (EC)	3.96	0.00500	mmhos/cm		4.06			2.40	25	
pH	7.90		pH Units		7.94			0.505	25	

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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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