ORIGINS LABORATORY, INC

THE NELAC INSTITUTE

ACCREDITED

TESTING CERT # 3494.01

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

ORIGINS LABORATORY, INC

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: YB11241

Client: Tasman

Client Project ID: Bryant

Checklist Completed by: TA/EHS

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

Date/time completed: 11/8/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 15.5 °C ____ / ____ °C ____ / ____ °C ____ / ____ °C

Thermometer ID: 7004

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

Reviewed by (Project Manager) ____ Date/Time Reviewed 11/8/23

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	*94.5 %*	*50-150*	*"*	*"*	*"*

Surrogate: 1,2-Dichloroethane-d4	*103 %*	*70-130*	*"*	*"*	*"*
Surrogate: Toluene-d8	*98.3 %*	*70-130*	*"*	*"*	*"*
Surrogate: 4-Bromofluorobenzene	*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.

ORIGINS LABORATORY, INC

Surrogate: Fluorene-d10	*108 %*	*60-130*	*"*	*"*	*"*

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ORIGINS LABORATORY, INC

Surrogate: Anthracene-d10	99.5 %	60-130	B3K0827	11/08/2023	11/08/2023
Surrogate: Pyrene-d10	91.4 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

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ORIGINS LABORATORY, INC

Surrogate: o-Terphenyl	*90.2 %*	*50-150*	*"*	*"*	*"*
Surrogate: 1,2-Dichloroethane-d4	*106 %*	*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: Toluene-d8	*97.6 %*	*70-130*	*B3K0829*	*11/08/2023*	*11/08/2023*
Surrogate: 4-Bromofluorobenzene	*103 %*	*70-130*	*"*	*"*	*"*

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ORIGINS LABORATORY, INC

Surrogate: Fluorene-d10	*103 %*	*60-130*	*"*	*"*	*"*
Surrogate: Anthracene-d10	*97.6 %*	*60-130*	*"*	*"*	*"*
Surrogate: Pyrene-d10	*93.0 %*	*60-130*	*"*	*"*	*"*
Surrogate: Benzo (a) pyrene-d12	*96.9 %*	*60-130*	*"*	*"*	*"*

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ORIGINS LABORATORY, INC

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ORIGINS LABORATORY, INC

Surrogate: o-Terphenyl	*91.9 %*	*50-150*	*"*	*"*	*"*
Surrogate: 1,2-Dichloroethane-d4	*103 %*	*70-130*	*"*	*"*	*"*

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ORIGINS LABORATORY, INC

Surrogate: Toluene-d8	*106 %*	*70-130*	*B3K0829*	*11/08/2023*	*11/08/2023*
Surrogate: 4-Bromofluorobenzene	*102 %*	*70-130*	*"*	*"*	*"*

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ORIGINS LABORATORY, INC

Surrogate: Fluorene-d10	*103 %*	*60-130*	*"*	*"*	*"*
Surrogate: Anthracene-d10	*96.1 %*	*60-130*	*"*	*"*	*"*
Surrogate: Pyrene-d10	*94.4 %*	*60-130*	*"*	*"*	*"*
Surrogate: Benzo (a) pyrene-d12	*97.9 %*	*60-130*	*"*	*"*	*"*

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ORIGINS LABORATORY, INC

Surrogate: o-Terphenyl	*79.9 %*	*50-150*	*"*	*"*	*"*
Surrogate: 1,2-Dichloroethane-d4	*102 %*	*70-130*	*"*	*"*	*"*

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ORIGINS LABORATORY, INC

Surrogate: Toluene-d8	*98.8 %*	*70-130*	*B3K0829*	*11/08/2023*	*11/08/2023*
Surrogate: 4-Bromofluorobenzene	*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.

ORIGINS LABORATORY, INC

Surrogate: Fluorene-d10	*103 %*	*60-130*	*"*	*"*	*"*
Surrogate: Anthracene-d10	*96.4 %*	*60-130*	*"*	*"*	*"*
Surrogate: Pyrene-d10	*96.1 %*	*60-130*	*"*	*"*	*"*
Surrogate: Benzo (a) pyrene-d12	*97.4 %*	*60-130*	*"*	*"*	*"*

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ORIGINS LABORATORY, INC

Surrogate: o-Terphenyl	*88.6 %*	*50-150*	*"*	*"*	*"*

Surrogate: 1,2-Dichloroethane-d4	*103 %*	*70-130*	*"*	*"*	*"*
Surrogate: Toluene-d8	*96.3 %*	*70-130*	*"*	*"*	*"*

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ORIGINS LABORATORY, INC

Surrogate: 4-Bromofluorobenzene	*103 %*	*70-130*	*B3K0829*	*11/08/2023*	*11/08/2023*

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ORIGINS LABORATORY, INC

Surrogate: Fluorene-d10	*104 %*	*60-130*	*"*	*"*	*"*
Surrogate: Anthracene-d10	*95.2 %*	*60-130*	*"*	*"*	*"*
Surrogate: Pyrene-d10	*92.2 %*	*60-130*	*"*	*"*	*"*
Surrogate: Benzo (a) pyrene-d12	*100 %*	*60-130*	*"*	*"*	*"*

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ORIGINS LABORATORY, INC

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ORIGINS LABORATORY, INC

Surrogate: o-Terphenyl	*95.5 %*	*50-150*	*"*	*"*	*"*
Surrogate: 1,2-Dichloroethane-d4	*103 %*	*70-130*	*"*	*"*	*"*

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ORIGINS LABORATORY, INC

Surrogate: Toluene-d8	*97.6 %*	*70-130*	*B3K0829*	*11/08/2023*	*11/08/2023*
Surrogate: 4-Bromofluorobenzene	*103 %*	*70-130*	*"*	*"*	*"*

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ORIGINS LABORATORY, INC

Surrogate: Fluorene-d10	*103 %*	*60-130*	*"*	*"*	*"*
Surrogate: Anthracene-d10	*96.6 %*	*60-130*	*"*	*"*	*"*
Surrogate: Pyrene-d10	*92.6 %*	*60-130*	*"*	*"*	*"*
Surrogate: Benzo (a) pyrene-d12	*96.8 %*	*60-130*	*"*	*"*	*"*

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ORIGINS LABORATORY, INC

Surrogate: o-Terphenyl	*96.8 %*	*50-150*	*"*	*"*	*"*

Surrogate: 1,2-Dichloroethane-d4	*102 %*	*70-130*	*"*	*"*	*"*

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ORIGINS LABORATORY, INC

Surrogate: Toluene-d8	*97.2 %*	*70-130*	*B3K0829*	*11/08/2023*	*11/08/2023*
Surrogate: 4-Bromofluorobenzene	*105 %*	*70-130*	*"*	*"*	*"*

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ORIGINS LABORATORY, INC

Surrogate: Fluorene-d10	*103 %*	*60-130*	*"*	*"*	*"*
Surrogate: Anthracene-d10	*96.2 %*	*60-130*	*"*	*"*	*"*
Surrogate: Pyrene-d10	*96.1 %*	*60-130*	*"*	*"*	*"*
Surrogate: Benzo (a) pyrene-d12	*98.8 %*	*60-130*	*"*	*"*	*"*

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ORIGINS LABORATORY, INC

Surrogate: o-Terphenyl	*81.4 %*	*50-150*	*"*	*"*	*"*

Surrogate: 1,2-Dichloroethane-d4	*104 %*	*70-130*	*"*	*"*	*"*

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ORIGINS LABORATORY, INC

Surrogate: Toluene-d8	*98.0 %*	*70-130*	*B3K0829*	*11/08/2023*	*11/08/2023*
Surrogate: 4-Bromofluorobenzene	*104 %*	*70-130*	*"*	*"*	*"*

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ORIGINS LABORATORY, INC

Surrogate: Fluorene-d10	*104 %*	*60-130*	*"*	*"*	*"*
Surrogate: Anthracene-d10	*96.4 %*	*60-130*	*"*	*"*	*"*
Surrogate: Pyrene-d10	*91.6 %*	*60-130*	*"*	*"*	*"*
Surrogate: Benzo (a) pyrene-d12	*99.4 %*	*60-130*	*"*	*"*	*"*

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ORIGINS LABORATORY, INC

Surrogate: o-Terphenyl	*82.8 %*	*50-150*	*"*	*"*	*"*
Surrogate: 1,2-Dichloroethane-d4	*104 %*	*70-130*	*"*	*"*	*"*

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ORIGINS LABORATORY, INC

Surrogate: Toluene-d8	*98.5 %*	*70-130*	*B3K0829*	*11/08/2023*	*11/08/2023*
Surrogate: 4-Bromofluorobenzene	*104 %*	*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: Fluorene-d10	*105 %*	*60-130*	*"*	*"*	*"*
Surrogate: Anthracene-d10	*97.4 %*	*60-130*	*"*	*"*	*"*
Surrogate: Pyrene-d10	*96.7 %*	*60-130*	*"*	*"*	*"*
Surrogate: Benzo (a) pyrene-d12	*93.7 %*	*60-130*	*"*	*"*	*"*

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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 21, 2023

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Bryant 9&34-30A O SA Facility **Project Number - 90428052**

Attached are your analytical results for KMG - Bryant 9&34-30A O SA Facility received by Origins Laboratory, Inc. November 09, 2023. This project is associated with Origins project number Y311269-01.

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

THE NELAC INSTITUTE

ACCREDITED
TESTING CERT # 3494.01

ORIGINS LABORATORY, INC

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: 90428052
Project: KMG - Bryant 9&34-30A O SA Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP1-B01@4'	Y311269-01	Soil	November 9, 2023 13:02	11/09/2023 15:56
SEP1-B02@4'	Y311269-02	Soil	November 9, 2023 13:04	11/09/2023 15:56
SEP2-B01@4'	Y311269-03	Soil	November 9, 2023 13:06	11/09/2023 15:56
SEP2-B02@4'	Y311269-04	Soil	November 9, 2023 13:08	11/09/2023 15:56
BG-01@2'	Y311269-05	Soil	November 9, 2023 14:20	11/09/2023 15:56
BG-01@5'	Y311269-06	Soil	November 9, 2023 14:22	11/09/2023 15:56
BG-02@2'	Y311269-07	Soil	November 9, 2023 14:24	11/09/2023 15:56
BG-02@5'	Y311269-08	Soil	November 9, 2023 14:26	11/09/2023 15:56

Origins Laboratory, Inc.

JBynon

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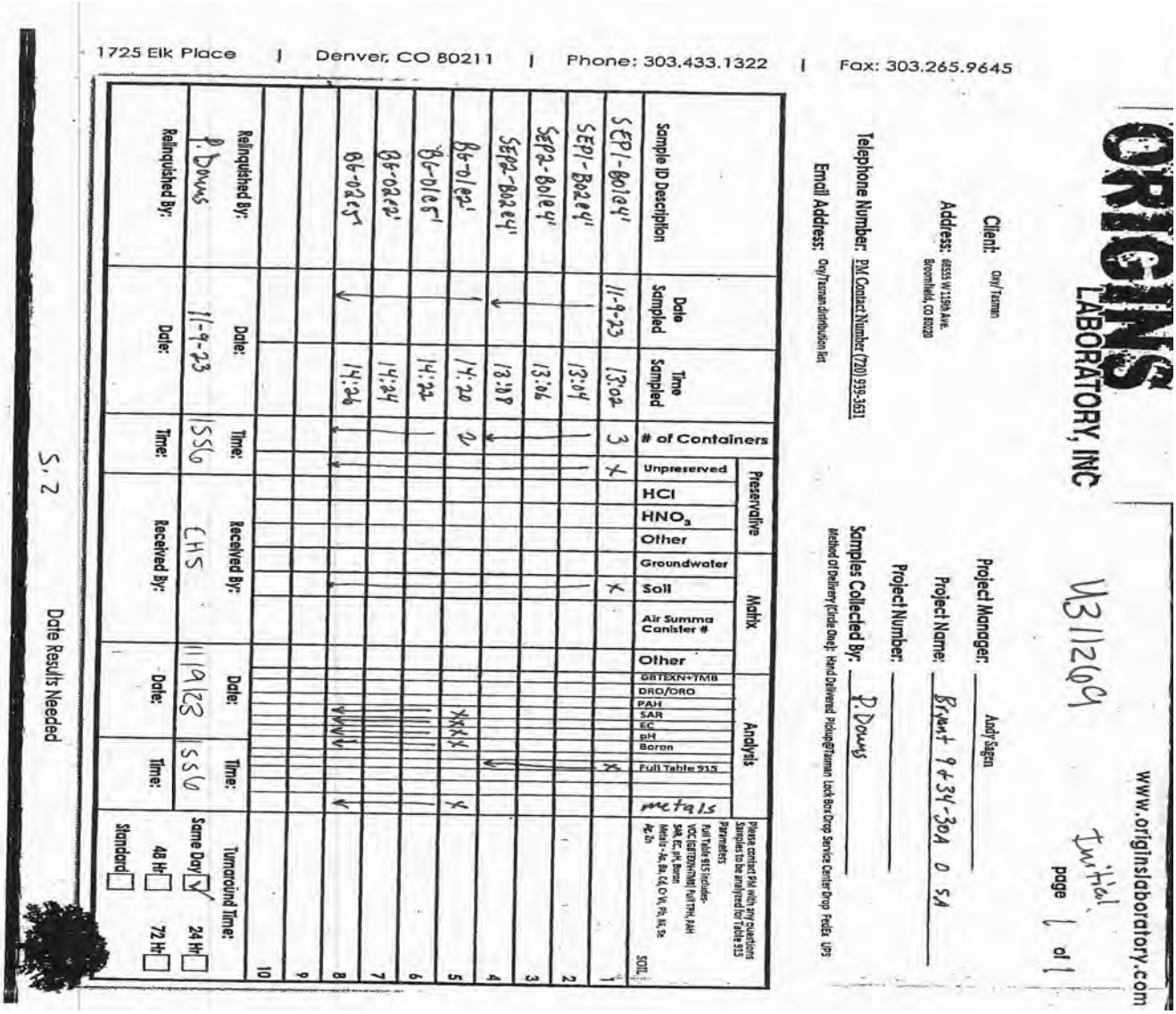
Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: 90428052
Project: KMG - Bryant 9&34-30A O SA Facility



ORIGINS LABORATORY, INC
1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645
www.originslaboratory.com

Client: Oxy/Tasman
Address: 6555 W 119th Ave. Broomfield, CO 80020
Telephone Number: PM Contact Number (720) 935-3831
Email Address: Oxy/Tasman distribution list

Project Manager: Andy Sagen
Project Name: Bryant 9 & 34-30A O SA
Project Number:
Samples Collected By: P. Downs
Method Of Delivery (Circle One): Hand Delivered Pickup/Tasman Lock Box Drop Service Center Drop FedEx UPS

U31126C9
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: GBTEXN+TMB	DRO/ORO	PAH	SAR	EC	pH	Boron	Full Table 915	metals
SEP1-B0104'	11-9-23	13:02	3	X					X										X	
SEP1-B0204'		13:04																		
SEP2-B0104'		13:06																		
SEP2-B0204'		13:08																		
B6-0104'		14:20	2																X	X
B6-0105'		14:22																		
B6-0202'		14:24																		
B6-0205'		14:26																		

Please contact PM with any questions
Samples to be analyzed for Table 915 Parameters
Full Table 915 includes: VOC (GBTEXN+TMB), Full TPH, PAH, SAR, EC, pH, Boron
Metals - As, Ba, Cd, Cr VI, Pb, Hg, Se, Ag, Zn
SOIL

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
P. Downs	11-9-23	1550	CHS	11/9/23	1550
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Turnaround Time: Same Day ☑ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☐

S. 2 Date Results Needed

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: 90428052
Project: KMG - Bryant 9&34-30A O SA Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4311269

Client: Tasman

Client Project ID: Bryant 9 & 34-30A

Checklist Completed by: CHS

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

Date/time completed: 11/9/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 5.2 °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]?	✓			
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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.

Reviewed by (Project Manager) 11/9/23 Date/Time Reviewed

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: 90428052
Project: KMG - Bryant 9&34-30A O SA Facility

SEP1-B01@4'
11/9/2023 1:02:00PM

Origins Laboratory, Inc.
Y311269-01 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	**0.452**		0.0989	mg/L	1	B3K1020	11/10/2023	11/14/2023	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3K0935	11/09/2023	11/10/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*79.4 %*		*50-150*			"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3K0936	11/09/2023	11/10/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	**0.00580**		0.00200	"	"	"	"	"	
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	**0.00442**		0.00200	"	"	"	"	"	
Xylenes, total	**0.00270**		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	**0.207**		0.200	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*101 %*		*70-130*			"	"	"	
Surrogate: Toluene-d8	*102 %*		*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: 90428052
Project: KMG - Bryant 9&34-30A O SA Facility

SEP1-B01@4'
11/9/2023 1:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y311269-01 (Soil)									
GBTEX+TMBs by 8260D									
Surrogate: 4-Bromofluorobenzene	*95.6 %*		*70-130*			*B3K0936*	*11/09/2023*	*11/10/2023*	
Metals by Saturated Paste by EPA 6010									
Calcium	**2.62**		0.499	meq/L	10	[CALC]	11/10/2023	11/13/2023	
Magnesium	**1.20**		0.823	"	"	"	"	"	
Sodium	**0.843**		0.435	"	"	"	"	"	
PAH by EPA 8270E									
1-Methylnaphthalene	**0.011**		0.002	mg/kg	1	B3K0939	11/09/2023	11/10/2023	
2-Methylnaphthalene	**0.022**		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U

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: 90428052
Project: KMG - Bryant 9&34-30A O SA Facility

SEP1-B01@4'
11/9/2023 1:02:00PM

Origins Laboratory, Inc.
Y311269-01 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
PAH by EPA 8270E									
Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B3K0939	11/09/2023	11/10/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	*102 %*		*60-130*			"	"	"	
Surrogate: Anthracene-d10	*99.1 %*		*60-130*			"	"	"	
Surrogate: Pyrene-d10	*97.5 %*		*60-130*			"	"	"	
Surrogate: Benzo (a) pyrene-d12	*97.8 %*		*60-130*			"	"	"	
pH in Soil by 9045D									
pH	**8.24**			pH Units	1	B3K1025	11/10/2023	11/11/2023	
SAR by 20B Saturated Paste									
SAR	**0.610**		0.0100	SAR	1	B3K1017	11/10/2023	11/13/2023	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.518**		0.00500	mmhos/cm	1	B3K1025	11/10/2023	11/11/2023	
Table 915 metals by EPA 6020B									
Arsenic	**3.07**		0.0987	mg/kg	10	B3K1009	11/10/2023	11/15/2023	

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: 90428052
Project: KMG - Bryant 9&34-30A O SA Facility

SEP1-B01@4'
11/9/2023 1:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y311269-01 (Soil)									
Table 915 metals by EPA 6020B									
Barium	**86.7**		9.87	mg/kg	10	B3K1009	11/10/2023	11/15/2023	
Cadmium	**0.111**		0.0987	"	"	"	"	"	
Copper	**10.5**		9.87	"	"	"	"	"	
Lead	ND		9.87	"	"	"	"	"	
Nickel	**11.7**		9.87	"	"	"	"	"	
Selenium	**0.174**		0.0987	"	"	"	"	"	
Silver	ND		0.0987	"	"	"	"	"	
Zinc	ND		98.7	"	"	"	"	"	
Total Metals by 7196A									
Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L717227	11/09/2023	11/15/2023	

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: 90428052
Project: KMG - Bryant 9&34-30A O SA Facility

SEP1-B02@4'
11/9/2023 1:04:00PM

Origins Laboratory, Inc.
Y311269-02 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	**0.365**		0.0999	mg/L	1	B3K1020	11/10/2023	11/14/2023	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	**62.1**		25.0	mg/kg	1	B3K0935	11/09/2023	11/10/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*81.8 %*		*50-150*			"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	**0.996**		0.0500	mg/kg	25	B3K0936	11/09/2023	11/10/2023	
1,3,5-Trimethylbenzene	**0.397**		0.0500	"	"	"	"	"	
Benzene	**0.0326**		0.00200	"	1	"	"	11/10/2023	
Ethylbenzene	**0.103**		0.0500	"	25	"	"	11/10/2023	
Toluene	**0.238**		0.0500	"	"	"	"	"	
Xylenes, total	**1.47**		0.0500	"	"	"	"	"	
Gasoline Range Hydrocarbons	**84.4**		5.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*98.3 %*		*70-130*			"	"	"	
Surrogate: Toluene-d8	*105 %*		*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*101 %*		*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: 90428052
Project: KMG - Bryant 9&34-30A O SA Facility

SEP1-B02@4'
11/9/2023 1:04:00PM

Origins Laboratory, Inc.
Y311269-02 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Metals by Saturated Paste by EPA 6010									
Calcium	**1.35**		0.499	meq/L	10	[CALC]	11/10/2023	11/13/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
PAH by EPA 8270E									
1-Methylnaphthalene	**0.356**		0.002	mg/kg	1	B3K0939	11/09/2023	11/10/2023	
2-Methylnaphthalene	**0.822**		0.002	"	"	"	"	"	
Acenaphthene	**0.069**		0.020	"	"	"	"	"	
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	**0.077**		0.020	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	**0.150**		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	*109 %*		*60-130*			"	"	"	

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SEP1-B02@4'
11/9/2023 1:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y311269-02 (Soil)									
PAH by EPA 8270E									
Surrogate: Anthracene-d10	*99.5 %*		*60-130*			*B3K0939*	*11/09/2023*	*11/10/2023*	
Surrogate: Pyrene-d10	*91.0 %*		*60-130*			*"*	*"*	*"*	
Surrogate: Benzo (a) pyrene-d12	*99.2 %*		*60-130*			*"*	*"*	*"*	
pH in Soil by 9045D									
pH	**8.34**			pH Units	1	B3K1025	11/10/2023	11/11/2023	
SAR by 20B Saturated Paste									
SAR	**0.401**		0.0100	SAR	1	B3K1017	11/10/2023	11/13/2023	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.281**		0.00500	mmhos/cm	1	B3K1025	11/10/2023	11/11/2023	
Table 915 metals by EPA 6020B									
Arsenic	**2.58**		0.0953	mg/kg	10	B3K1009	11/10/2023	11/15/2023	
Barium	**64.2**		9.53	"	"	"	"	"	
Cadmium	ND		0.0953	"	"	"	"	"	
Copper	ND		9.53	"	"	"	"	"	
Lead	ND		9.53	"	"	"	"	"	
Nickel	ND		9.53	"	"	"	"	"	
Selenium	ND		0.0953	"	"	"	"	"	

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Project: KMG - Bryant 9&34-30A O SA Facility

SEP1-B02@4'
11/9/2023 1:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y311269-02 (Soil)									
Table 915 metals by EPA 6020B									
Silver	ND		0.0953	mg/kg	10	B3K1009	11/10/2023	11/15/2023	
Zinc	ND		95.3	"	"	"	"	"	
Total Metals by 7196A									
Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L717227	11/09/2023	11/15/2023	

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Project Number: 90428052
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SEP2-B01@4'
11/9/2023 1:06:00PM

Origins Laboratory, Inc.
Y311269-03 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	**0.189**		0.100	mg/L	1	B3K1020	11/10/2023	11/14/2023	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3K0935	11/09/2023	11/10/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*73.9 %*		*50-150*			"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3K0936	11/09/2023	11/10/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	*100 %*		*70-130*			"	"	"	

Origins Laboratory, Inc.

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ORIGINS LABORATORY, INC

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: 90428052
Project: KMG - Bryant 9&34-30A O SA Facility

SEP2-B01@4'
11/9/2023 1:06:00PM

Origins Laboratory, Inc.
Y311269-03 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
GBTEX+TMBs by 8260D									
Surrogate: Toluene-d8	*103 %*		*70-130*			*B3K0936*	*11/09/2023*	*11/10/2023*	
Surrogate: 4-Bromofluorobenzene	*94.6 %*		*70-130*			*"*	*"*	*"*	
Metals by Saturated Paste by EPA 6010									
Calcium	**0.925**		0.499	meq/L	10	[CALC]	11/10/2023	11/13/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
PAH by EPA 8270E									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B3K0939	11/09/2023	11/10/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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SEP2-B01@4'
11/9/2023 1:06:00PM

Origins Laboratory, Inc.
Y311269-03 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
PAH by EPA 8270E									
Fluorene	ND		0.020	mg/kg	1	B3K0939	11/09/2023	11/10/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	*99.8 %*		*60-130*			"	"	"	
Surrogate: Anthracene-d10	*110 %*		*60-130*			"	"	"	
Surrogate: Pyrene-d10	*99.0 %*		*60-130*			"	"	"	
Surrogate: Benzo (a) pyrene-d12	*96.5 %*		*60-130*			"	"	"	
pH in Soil by 9045D									
pH	**8.33**			pH Units	1	B3K1025	11/10/2023	11/11/2023	
SAR by 20B Saturated Paste									
SAR	**0.315**		0.0100	SAR	1	B3K1017	11/10/2023	11/13/2023	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.198**		0.00500	mmhos/cm	1	B3K1025	11/10/2023	11/11/2023	
Table 915 metals by EPA 6020B									

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SEP2-B01@4'
11/9/2023 1:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y311269-03 (Soil)									
Table 915 metals by EPA 6020B									
Arsenic	**2.51**		0.0985	mg/kg	10	B3K1009	11/10/2023	11/15/2023	
Barium	**62.9**		9.85	"	"	"	"	"	
Cadmium	ND		0.0985	"	"	"	"	"	
Copper	ND		9.85	"	"	"	"	"	
Lead	ND		9.85	"	"	"	"	"	
Nickel	ND		9.85	"	"	"	"	"	
Selenium	ND		0.0985	"	"	"	"	"	
Silver	ND		0.0985	"	"	"	"	"	
Zinc	ND		98.5	"	"	"	"	"	
Total Metals by 7196A									
Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L717227	11/09/2023	11/15/2023	

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Project Number: 90428052
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SEP2-B02@4'
11/9/2023 1:08:00PM

Origins Laboratory, Inc.
Y311269-04 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	**0.332**		0.0984	mg/L	1	B3K1020	11/10/2023	11/14/2023	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3K0935	11/09/2023	11/10/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*75.9 %*		*50-150*			"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3K0936	11/09/2023	11/10/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	*103 %*		*70-130*			"	"	"	

Origins Laboratory, Inc.

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Broomfield CO 80020

Andy Sagen
Project Number: 90428052
Project: KMG - Bryant 9&34-30A O SA Facility

SEP2-B02@4'
11/9/2023 1:08:00PM

Origins Laboratory, Inc.
Y311269-04 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
GBTEX+TMBs by 8260D									
Surrogate: Toluene-d8	*104 %*		*70-130*			*B3K0936*	*11/09/2023*	*11/10/2023*	
Surrogate: 4-Bromofluorobenzene	*95.2 %*		*70-130*			*"*	*"*	*"*	
Metals by Saturated Paste by EPA 6010									
Calcium	**2.09**		0.499	meq/L	10	[CALC]	11/10/2023	11/13/2023	
Magnesium	**1.26**		0.823	"	"	"	"	"	
Sodium	**0.958**		0.435	"	"	"	"	"	
PAH by EPA 8270E									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B3K0939	11/09/2023	11/10/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	**0.005**		0.005	"	"	"	"	"	
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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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: 90428052
Project: KMG - Bryant 9&34-30A O SA Facility

SEP2-B02@4'
11/9/2023 1:08:00PM

Origins Laboratory, Inc.
Y311269-04 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
PAH by EPA 8270E									
Fluorene	ND		0.020	mg/kg	1	B3K0939	11/09/2023	11/10/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	*100 %*		*60-130*			"	"	"	
Surrogate: Anthracene-d10	*98.4 %*		*60-130*			"	"	"	
Surrogate: Pyrene-d10	*99.1 %*		*60-130*			"	"	"	
Surrogate: Benzo (a) pyrene-d12	*96.7 %*		*60-130*			"	"	"	
pH in Soil by 9045D									
pH	**8.28**			pH Units	1	B3K1026	11/10/2023	11/11/2023	
SAR by 20B Saturated Paste									
SAR	**0.740**		0.0100	SAR	1	B3K1018	11/10/2023	11/13/2023	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.455**		0.00500	mmhos/cm	1	B3K1026	11/10/2023	11/11/2023	
Table 915 metals by EPA 6020B									

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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: 90428052
Project: KMG - Bryant 9&34-30A O SA Facility

SEP2-B02@4'
11/9/2023 1:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y311269-04 (Soil)									
Table 915 metals by EPA 6020B									
Arsenic	**2.80**		0.0942	mg/kg	10	B3K1009	11/10/2023	11/15/2023	
Barium	**75.6**		9.42	"	"	"	"	"	
Cadmium	**0.115**		0.0942	"	"	"	"	"	
Copper	**9.47**		9.42	"	"	"	"	"	
Lead	ND		9.42	"	"	"	"	"	
Nickel	**9.52**		9.42	"	"	"	"	"	
Selenium	**0.160**		0.0942	"	"	"	"	"	
Silver	ND		0.0942	"	"	"	"	"	
Zinc	ND		94.2	"	"	"	"	"	
Total Metals by 7196A									
Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L717227	11/09/2023	11/15/2023	

Origins Laboratory, Inc.

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ORIGINS LABORATORY, INC

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: 90428052
Project: KMG - Bryant 9&34-30A O SA Facility

BG-01@2'
11/9/2023 2:20:00PM

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

Origins Laboratory, Inc.

Y311269-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.991	mg/L	10	B3K1020	11/10/2023	11/14/2023

Metals by Saturated Paste by EPA 6010

Calcium	**2.39**	0.499	meq/L	"	[CALC]	11/10/2023	11/13/2023
Magnesium	**1.81**	0.823	"	"	"	"	"
Sodium	**1.92**	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	**8.28**		pH Units	1	B3K1026	11/10/2023	11/11/2023

SAR by 20B Saturated Paste

SAR	**1.32**	0.0100	SAR	1	B3K1018	11/10/2023	11/13/2023

Specific Conductance Mod. 9050A

Specific Conductance (EC)	**0.666**	0.00500	mmhos/cm	1	B3K1026	11/10/2023	11/11/2023

Table 915 metals by EPA 6020B

Arsenic	**3.63**	0.0839	mg/kg	10	B3K1009	11/10/2023	11/15/2023
Barium	**122**	8.39	"	"	"	"	"
Cadmium	**0.226**	0.0839	"	"	"	"	"
Copper	**14.3**	8.39	"	"	"	"	"

Origins Laboratory, Inc.

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ORIGINS LABORATORY, INC

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: 90428052
Project: KMG - Bryant 9&34-30A O SA Facility

BG-01@2'
11/9/2023 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y311269-05 (Soil)									
Table 915 metals by EPA 6020B									
Lead	**12.8**		8.39	mg/kg	10	B3K1009	11/10/2023	11/15/2023	
Nickel	**14.7**		8.39	"	"	"	"	"	
Selenium	**0.305**		0.0839	"	"	"	"	"	
Silver	ND		0.0839	"	"	"	"	"	
Zinc	ND		83.9	"	"	"	"	"	
Total Metals by 7196A									
Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L717227	11/09/2023	11/15/2023	

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: 90428052
Project: KMG - Bryant 9&34-30A O SA Facility

BG-01@5'
11/9/2023 2:22:00PM

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

Origins Laboratory, Inc.

Y311269-06 (Soil)

Boron (DTPA Sorbitol)

Boron	**0.262**		0.0998	mg/L	1	B3K1020	11/10/2023	11/14/2023

Metals by Saturated Paste by EPA 6010

Calcium	**2.38**		0.499	meq/L	10	[CALC]	11/10/2023	11/13/2023
Magnesium	**2.47**		0.823	"	"	"	"	"
Sodium	**3.15**		0.435	"	"	"	"	"

pH in Soil by 9045D

pH	**8.32**			pH Units	1	B3K1026	11/10/2023	11/11/2023

SAR by 20B Saturated Paste

SAR	**2.02**		0.0100	SAR	1	B3K1018	11/10/2023	11/13/2023

Specific Conductance Mod. 9050A

Specific Conductance (EC)	**0.792**		0.00500	mmhos/cm	1	B3K1026	11/10/2023	11/11/2023

Table 915 metals by EPA 6020B

Arsenic	**2.58**		0.0980	mg/kg	10	B3K1009	11/10/2023	11/15/2023
Barium	**79.7**		9.80	"	"	"	"	"
Cadmium	ND		0.0980	"	"	"	"	"
Copper	ND		9.80	"	"	"	"	"

Origins Laboratory, Inc.

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ORIGINS LABORATORY, INC

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6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: 90428052
Project: KMG - Bryant 9&34-30A O SA Facility

BG-01@5'
11/9/2023 2:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y311269-06 (Soil)									
Table 915 metals by EPA 6020B									
Lead	ND		9.80	mg/kg	10	B3K1009	11/10/2023	11/15/2023	
Nickel	**13.5**		9.80	"	"	"	"	"	
Selenium	**0.150**		0.0980	"	"	"	"	"	
Silver	ND		0.0980	"	"	"	"	"	
Zinc	ND		98.0	"	"	"	"	"	
Total Metals by 7196A									
Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L717227	11/09/2023	11/15/2023	

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Andy Sagen
Project Number: 90428052
Project: KMG - Bryant 9&34-30A O SA Facility

BG-02@2'
11/9/2023 2:24:00PM

Origins Laboratory, Inc.
Y311269-07 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	**1.97**		0.986	mg/L	10	B3K1020	11/10/2023	11/14/2023	
Metals by Saturated Paste by EPA 6010									
Calcium	**2.99**		0.499	meq/L	"	[CALC]	11/10/2023	11/13/2023	
Magnesium	**3.19**		0.823	"	"	"	"	"	
Sodium	**6.88**		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	**8.28**			pH Units	1	B3K1026	11/10/2023	11/11/2023	
SAR by 20B Saturated Paste									
SAR	**3.92**		0.0100	SAR	1	B3K1018	11/10/2023	11/13/2023	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**1.17**		0.00500	mmhos/cm	1	B3K1026	11/10/2023	11/11/2023	
Table 915 metals by EPA 6020B									
Arsenic	**5.04**		0.0978	mg/kg	10	B3K1009	11/10/2023	11/15/2023	
Barium	**137**		9.78	"	"	"	"	"	
Cadmium	**0.264**		0.0978	"	"	"	"	"	
Copper	**17.5**		9.78	"	"	"	"	"	

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ORIGINS LABORATORY, INC

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: 90428052
Project: KMG - Bryant 9&34-30A O SA Facility

BG-02@2'
11/9/2023 2:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y311269-07 (Soil)									
Table 915 metals by EPA 6020B									
Lead	**16.7**		9.78	mg/kg	10	B3K1009	11/10/2023	11/15/2023	
Nickel	**16.2**		9.78	"	"	"	"	"	
Selenium	**0.366**		0.0978	"	"	"	"	"	
Silver	**0.110**		0.0978	"	"	"	"	"	
Zinc	ND		97.8	"	"	"	"	"	
Total Metals by 7196A									
Chromium, Hexavalent	ND	2.44	5	mg/Kg	10	L717227	11/09/2023	11/15/2023	

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Broomfield CO 80020

Andy Sagen
Project Number: 90428052
Project: KMG - Bryant 9&34-30A O SA Facility

BG-02@5'
11/9/2023 2:26:00PM

Origins Laboratory, Inc.
Y311269-08 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	**0.184**		0.0997	mg/L	1	B3K1020	11/10/2023	11/14/2023	
Metals by Saturated Paste by EPA 6010									
Calcium	**2.89**		0.499	meq/L	10	[CALC]	11/10/2023	11/13/2023	
Magnesium	**2.46**		0.823	"	"	"	"	"	
Sodium	**3.50**		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	**8.39**			pH Units	1	B3K1026	11/10/2023	11/11/2023	
SAR by 20B Saturated Paste									
SAR	**2.14**		0.0100	SAR	1	B3K1018	11/10/2023	11/13/2023	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.896**		0.00500	mmhos/cm	1	B3K1026	11/10/2023	11/11/2023	
Table 915 metals by EPA 6020B									
Arsenic	**2.43**		0.0972	mg/kg	10	B3K1009	11/10/2023	11/15/2023	
Barium	**41.3**		9.72	"	"	"	"	"	
Cadmium	ND		0.0972	"	"	"	"	"	
Copper	ND		9.72	"	"	"	"	"	

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: 90428052
Project: KMG - Bryant 9&34-30A O SA Facility

BG-02@5'
11/9/2023 2:26:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y311269-08 (Soil)									
Table 915 metals by EPA 6020B									
Lead	ND		9.72	mg/kg	10	B3K1009	11/10/2023	11/15/2023	
Nickel	ND		9.72	"	"	"	"	"	
Selenium	ND		0.0972	"	"	"	"	"	
Silver	ND		0.0972	"	"	"	"	"	
Zinc	ND		97.2	"	"	"	"	"	
Total Metals by 7196A									
Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L717227	11/09/2023	11/15/2023	

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