



August 11, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Benson Farms 12N-23HZ Project Number - 90343531

Attached are your analytical results for KMG - Benson Farms 12N-23HZ received by Origins Laboratory, Inc. August 05, 2021. This project is associated with Origins project number Y108097-01.

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

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

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

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

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

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



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	Y108097-01	Soil	August 5, 2021 12:07	08/05/2021 15:00
WH-BG01@3'	Y108097-02	Soil	August 5, 2021 12:16	08/05/2021 15:00
WH-BG01@6'	Y108097-03	Soil	August 5, 2021 12:17	08/05/2021 15:00
WH-BG02@3'	Y108097-04	Soil	August 5, 2021 12:18	08/05/2021 15:00
WH-BG02@6'	Y108097-05	Soil	August 5, 2021 12:19	08/05/2021 15:00

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y1080927 Client: Tasman
Client Project ID: Benson Farms 12N-23HZ

Checklist Completed by: JA Shipped Via: HD
Date/time completed: 8/5/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____
Cooler Number/Temperature: 1, 5.6 °C / _____ °C / _____ °C (Describe) _____ °C
Thermometer ID: T003

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

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 8/5/12

Origins Laboratory, Inc.

Jen Pellegrini

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

WH-B01@6'
8/5/2021 12:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108097-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.516	0.199	mg/L	1	B1H0529	JMA	08/05/2021	08/06/2021
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	931	25.0	mg/kg	1	B1H0531	DJL	08/05/2021	08/05/2021
Residual Range Organics (C28-C40)	2830	100	"	"	"	DJL	"	"

Surrogate: o-Terphenyl	84.3 %	50-150	"	"	"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H0530	KDK	08/05/2021	08/05/2021	U
Naphthalene	ND	0.00380	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"	"
Surrogate: Toluene-d8	108 %	70-130	"	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"	"

Origins Laboratory, Inc.



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WH-B01@6'
8/5/2021 12:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108097-01 (Soil)

Metals by Saturated Paste

Calcium	2.23	0.0499	meq/L	1	[CALC]	CJM	08/06/2021	08/07/2021
Magnesium	1.57	0.0823	"	"	"	CJM	"	"
Sodium	3.40	0.0435	"	"	"	CJM	"	"

pH in Soil by EPA 9045D

pH	8.41		pH Units	1	B1H0603	DTP	08/06/2021	08/09/2021
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SAR by 20B Saturated Paste

SAR	2.47		SAR	1	B1H0611	CJM	08/06/2021	08/07/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.682	0.00500	mmhos/cm	1	B1H0607	DTP	08/06/2021	08/09/2021
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Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

WH-BG01@3'
8/5/2021 12:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108097-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.418	0.199	mg/L	1	B1H0529	JMA	08/05/2021	08/06/2021
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Metals by Saturated Paste

Calcium	2.90	0.0499	meq/L	"	[CALC]	CJM	08/06/2021	08/07/2021
Magnesium	2.99	0.0823	"	"	"	CJM	"	"
Sodium	2.15	0.0435	"	"	"	CJM	"	"

pH in Soil by EPA 9045D

pH	8.13		pH Units	1	B1H0603	DTP	08/06/2021	08/09/2021
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SAR by 20B Saturated Paste

SAR	1.26		SAR	1	B1H0611	CJM	08/06/2021	08/07/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.784	0.00500	mmhos/cm	1	B1H0607	DTP	08/06/2021	08/09/2021
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6855 West 119th Avenue
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Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

WH-BG01@6'
8/5/2021 12:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108097-03 (Soil)

Boron (DTPA Sorbitol)

Boron	1.34	0.200	mg/L	1	B1H0529	JMA	08/05/2021	08/06/2021
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Metals by Saturated Paste

Calcium	1.86	0.0499	meq/L	"	[CALC]	CJM	08/06/2021	08/07/2021
Magnesium	3.21	0.0823	"	"	"	CJM	"	"
Sodium	1.88	0.0435	"	"	"	CJM	"	"

pH in Soil by EPA 9045D

pH	8.26		pH Units	1	B1H0603	DTP	08/06/2021	08/09/2021
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SAR by 20B Saturated Paste

SAR	1.18		SAR	1	B1H0611	CJM	08/06/2021	08/07/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.643	0.00500	mmhos/cm	1	B1H0607	DTP	08/06/2021	08/09/2021
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Project Number: 90343531
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WH-BG02@3'
8/5/2021 12:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108097-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.278	0.198	mg/L	1	B1H0529	JMA	08/05/2021	08/06/2021
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Metals by Saturated Paste

Calcium	8.24	0.0499	meq/L	"	[CALC]	CJM	08/06/2021	08/07/2021
Magnesium	3.93	0.0823	"	"	"	CJM	"	"
Sodium	5.16	0.0435	"	"	"	CJM	"	"

pH in Soil by EPA 9045D

pH	7.98		pH Units	1	B1H0603	DTP	08/06/2021	08/09/2021
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SAR by 20B Saturated Paste

SAR	2.10		SAR	1	B1H0611	CJM	08/06/2021	08/07/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.56	0.00500	mmhos/cm	1	B1H0607	DTP	08/06/2021	08/09/2021
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Project Number: 90343531
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WH-BG02@6'
8/5/2021 12:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108097-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.545	0.202	mg/L	1	B1H0529	JMA	08/05/2021	08/06/2021
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Metals by Saturated Paste

Calcium	3.35	0.0499	meq/L	"	[CALC]	CJM	08/06/2021	08/07/2021
Magnesium	3.51	0.0823	"	"	"	CJM	"	"
Sodium	2.47	0.0435	"	"	"	CJM	"	"

pH in Soil by EPA 9045D

pH	8.27		pH Units	1	B1H0603	DTP	08/06/2021	08/09/2021
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SAR by 20B Saturated Paste

SAR	1.34		SAR	1	B1H0611	CJM	08/06/2021	08/07/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.902	0.00500	mmhos/cm	1	B1H0607	DTP	08/06/2021	08/09/2021
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Project: KMG - Benson Farms 12N-23HZ

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 B1H0530 - EPA 5030 (soil)										
Blank (B1H0530-BLK1)					Prepared: 08/05/2021 Analyzed: 08/05/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125	119		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	94.1		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, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1H0530 - EPA 5030 (soil)										
LCS (B1H0530-BS1)					Prepared: 08/05/2021 Analyzed: 08/05/2021					
1,2,4-Trimethylbenzene	0.0511	0.00200	mg/kg	0.0500		102	70-130			
Naphthalene	0.0439	0.0100	"	0.0500		87.9	70-130			
1,3,5-Trimethylbenzene	0.0493	0.00200	"	0.0500		98.6	70-130			
Benzene	0.0472	0.00200	"	0.0500		94.4	70-130			
Ethylbenzene	0.0445	0.00200	"	0.0500		88.9	70-130			
m,p-Xylene	0.0952	0.00400	"	0.100		95.2	70-130			
o-Xylene	0.0479	0.00200	"	0.0500		95.9	70-130			
Toluene	0.0476	0.00200	"	0.0500		95.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		118	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1H0530 - EPA 5030 (soil)										
Matrix Spike (B1H0530-MS1)		Source: Y108093-01			Prepared: 08/05/2021 Analyzed: 08/05/2021					
1,2,4-Trimethylbenzene	0.0556	0.00200	mg/kg	0.0500	ND	111	70-130			
Naphthalene	0.0482	0.0100	"	0.0500	ND	96.4	70-130			
1,3,5-Trimethylbenzene	0.0548	0.00200	"	0.0500	ND	110	70-130			
Benzene	0.0606	0.00200	"	0.0500	ND	121	70-130			
Ethylbenzene	0.0512	0.00200	"	0.0500	ND	102	70-130			
m,p-Xylene	0.106	0.00400	"	0.100	ND	106	70-130			
o-Xylene	0.0525	0.00200	"	0.0500	ND	105	70-130			
Toluene	0.0542	0.00200	"	0.0500	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		124	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1H0530 - EPA 5030 (soil)										
Matrix Spike Dup (B1H0530-MSD1)		Source: Y108093-01			Prepared: 08/05/2021 Analyzed: 08/05/2021					
1,2,4-Trimethylbenzene	0.0590	0.00200	mg/kg	0.0500	ND	118	70-130	5.94	20	
Naphthalene	0.0520	0.0100	"	0.0500	ND	104	70-130	7.66	20	
1,3,5-Trimethylbenzene	0.0582	0.00200	"	0.0500	ND	116	70-130	5.91	20	
Benzene	0.0652	0.00200	"	0.0500	ND	130	70-130	7.22	20	
Ethylbenzene	0.0544	0.00200	"	0.0500	ND	109	70-130	6.06	20	
m,p-Xylene	0.113	0.00400	"	0.100	ND	113	70-130	6.14	20	
o-Xylene	0.0558	0.00200	"	0.0500	ND	112	70-130	6.02	20	
Toluene	0.0575	0.00200	"	0.0500	ND	115	70-130	5.87	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		123	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.6	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, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1H0531 - EPA 3550B										
Blank (B1H0531-BLK1)					Prepared: 08/05/2021 Analyzed: 08/05/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	25.0		89.1	50-150			

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Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H0531 - EPA 3550B

LCS (B1H0531-BS1)

Prepared: 08/05/2021 Analyzed: 08/05/2021

Diesel (C10-C28)	1180	50.0	mg/kg	1000		118	70-130			
Residual Range Organics (C28-C40)	1290	200	"	1000		129	70-130			
Surrogate: o-Terphenyl	55		"	50.0		109	50-150			

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H0531 - EPA 3550B

Matrix Spike (B1H0531-MS1)		Source: Y108093-01			Prepared: 08/05/2021 Analyzed: 08/05/2021					
Diesel (C10-C28)	1050	50.0	mg/kg	1000	ND	105	70-130			
Residual Range Organics (C28-C40)	1190	200	"	1000	ND	119	70-130			
Surrogate: o-Terphenyl	47		"	50.0		94.7	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H0531 - EPA 3550B

Matrix Spike Dup (B1H0531-MSD1)		Source: Y108093-01			Prepared: 08/05/2021 Analyzed: 08/05/2021					
Diesel (C10-C28)	1090	50.0	mg/kg	1000	ND	109	70-130	4.06	35	
Residual Range Organics (C28-C40)	1270	200	"	1000	ND	127	70-130	6.54	35	
Surrogate: o-Terphenyl	50		"	50.0		101	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H0529 - Default Prep Metals

Blank (B1H0529-BLK1)

Prepared: 08/05/2021 Analyzed: 08/06/2021

Boron	ND	0.200	mg/L
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1H0603 - NO PREP										
Duplicate (B1H0603-DUP1)		Source: Y108094-01			Prepared: 08/06/2021 Analyzed: 08/09/2021					
pH	8.34		pH Units		8.36			0.240	25	
Batch B1H0607 - NO PREP										
Blank (B1H0607-BLK1)		Prepared: 08/06/2021 Analyzed: 08/09/2021								
Specific Conductance (EC)	0.00290	0.00500	mmhos/cm							
Duplicate (B1H0607-DUP1)		Source: Y108094-01			Prepared: 08/06/2021 Analyzed: 08/09/2021					
Specific Conductance (EC)	0.382	0.00500	mmhos/cm		0.329			15.0	25	

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager



August 25, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Benson Farms 12N-23HZ Project Number - 90343531

Attached are your analytical results for KMG - Benson Farms 12N-23HZ received by Origins Laboratory, Inc. August 06, 2021. This project is associated with Origins project number Y108147-01.

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

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

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

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

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

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



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	Y108147-01	Soil	August 6, 2021 9:57	08/06/2021 15:16
WH-N02@5'	Y108147-02	Soil	August 6, 2021 9:58	08/06/2021 15:16
WH-S02@5'	Y108147-03	Soil	August 6, 2021 9:59	08/06/2021 15:16
WH-E02@5'	Y108147-04	Soil	August 6, 2021 10:00	08/06/2021 15:16
WH-W02@5'	Y108147-05	Soil	August 6, 2021 10:01	08/06/2021 15:16
WH-BG01@3'	Y108147-06	Soil	August 6, 2021 10:02	08/06/2021 15:16
WH-BG01@6'	Y108147-07	Soil	August 6, 2021 10:03	08/06/2021 15:16
WH-BG02@3'	Y108147-08	Soil	August 6, 2021 10:04	08/06/2021 15:16
WH-BG02@6'	Y108147-09	Soil	August 6, 2021 10:05	08/06/2021 15:16

Origins Laboratory, Inc.



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

Jordan A. Merrill For Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y108147 Client: Tasman
Client Project ID: Benson Farms 12N-23

Checklist Completed by: JG Shipped Via: HA
Date/time completed: 8/6/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____
Cooler Number/Temperature: 1, 10.1 °C 1 °C 1 °C (Describe) _____ °C
Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>Same Day</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 NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager): [Signature] Date/Time Reviewed: 8/6/12

Origins Laboratory, Inc.

[Signature]

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

WH-B01@6'

8/6/2021 9:57:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108147-01 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00335	mg/Kg	5	L568617		08/11/2021	08/12/2021	
2-Methylnaphthalene	ND	0.00335	"	"	"		"	"	
Acenaphthene	ND	0.00335	"	"	"		"	"	
Anthracene	ND	0.00335	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00335	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00335	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00335	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00335	"	"	"		"	"	
Chrysene	ND	0.00335	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00335	"	"	"		"	"	
Fluoranthene	ND	0.00335	"	"	"		"	"	
Fluorene	ND	0.00335	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00335	"	"	"		"	"	
Naphthalene	ND	0.00335	"	"	"		"	"	
Pyrene	ND	0.00335	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	69.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	68.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	60.9 %	29-110	"	"	"

Total Metals by 6020B

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

WH-B01@6'

8/6/2021 9:57:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108147-01 (Soil)

Total Metals by 6020B

Arsenic	2.95	0.25	mg/Kg	5	L568329	08/10/2021	08/12/2021	
Barium	736	0.25	"	"	"	"	"	
Cadmium	0.189	0.25	"	"	"	"	"	J
Copper	10.9	0.25	"	"	"	"	"	
Lead	9.28	0.25	"	"	"	"	"	
Nickel	12.7	0.25	"	"	"	"	"	
Selenium	0.526	0.25	"	"	"	"	"	
Silver	0.0605	0.25	"	"	"	"	"	J
Zinc	43.3	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.5	mg/Kg	1	L568481	08/06/2021	08/11/2021	
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

WH-N02@5'

8/6/2021 9:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y108147-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H0636	DJL	08/06/2021	08/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	DJL	"	"	U

Surrogate: o-Terphenyl 74.4 % 50-150 " " "

GBTEX+TMBs

Naphthalene	ND	0.00380	mg/kg	1	B1H0635	KDK	08/06/2021	08/06/2021	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 144 % 70-130 " " " S-07
Surrogate: Toluene-d8 90.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

pH in Soil by 9045D

pH	8.25		pH Units	1	B1H2003	DTP	08/20/2021	08/20/2021	
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Total Metals by 6020B

Barium	154	0.25	mg/Kg	5	L570238		08/20/2021	08/24/2021	
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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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

WH-S02@5'

8/6/2021 9:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y108147-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	1040	25.0	mg/kg	1	B1H0636	DJL	08/06/2021	08/07/2021	
Residual Range Organics (C28-C40)	3110	100	"	"	"	DJL	"	"	

Surrogate: o-Terphenyl 74.7 % 50-150 " " "

GBTEX+TMBs

Naphthalene	ND	0.00380	mg/kg	1	B1H0635	KDK	08/06/2021	08/06/2021	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 152 % 70-130 " " " S-07
Surrogate: Toluene-d8 90.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 106 % 70-130 " " "

pH in Soil by 9045D

pH	7.62		pH Units	1	B1H2003	DTP	08/20/2021	08/20/2021	
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Total Metals by 6020B

Barium	1110	0.25	mg/Kg	5	L570238		08/20/2021	08/24/2021	
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Origins Laboratory, Inc.

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

WH-E02@5'
8/6/2021 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108147-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H0636	DJL	08/06/2021	08/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	DJL	"	"	U

Surrogate: o-Terphenyl 77.1 % 50-150 " " "

GBTEX+TMBs

Naphthalene	ND	0.00380	mg/kg	1	B1H0635	KDK	08/06/2021	08/06/2021	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 154 % 70-130 " " " S-07
Surrogate: Toluene-d8 89.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

pH in Soil by 9045D

pH	8.12		pH Units	1	B1H2003	DTP	08/20/2021	08/20/2021	
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Total Metals by 6020B

Barium	1150	0.25	mg/Kg	5	L570238		08/20/2021	08/24/2021	
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

WH-W02@5'
8/6/2021 10:01:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108147-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H0636	DJL	08/06/2021	08/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	DJL	"	"	U

Surrogate: o-Terphenyl 81.1 % 50-150 " " "

GBTEX+TMBs

Naphthalene	ND	0.00380	mg/kg	1	B1H0635	KDK	08/06/2021	08/06/2021	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 154 % 70-130 " " " S-07
Surrogate: Toluene-d8 88.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

pH in Soil by 9045D

pH	8.09		pH Units	1	B1H2003	DTP	08/20/2021	08/20/2021	
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Total Metals by 6020B

Barium	211	0.25	mg/Kg	5	L570238		08/20/2021	08/24/2021	
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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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

WH-BG01@3'
8/6/2021 10:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108147-06 (Soil)

Total Metals by 6020-B

Arsenic	1.76	0.25	mg/Kg	5	L568330	08/10/2021	08/12/2021	
Barium	32.7	0.25	"	"	"	"	"	
Cadmium	0.0562	0.25	"	"	"	"	"	J
Copper	4.35	0.25	"	"	"	"	"	
Lead	3.57	0.25	"	"	"	"	"	
Nickel	5.15	0.25	"	"	"	"	"	
Selenium	0.359	0.25	"	"	"	"	"	
Silver	0.0125	0.25	"	"	"	"	"	J
Zinc	16.6	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.5	mg/Kg	1	L568481	08/06/2021	08/11/2021	
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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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

WH-BG01@6'
8/6/2021 10:03:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108147-07 (Soil)

Total Metals by 6020-B

Arsenic	2.86	0.25	mg/Kg	5	L568330	08/10/2021	08/12/2021	
Barium	141	0.25	"	"	"	"	"	
Cadmium	0.151	0.25	"	"	"	"	"	J
Copper	9.28	0.25	"	"	"	"	"	
Lead	8.34	0.25	"	"	"	"	"	
Nickel	11	0.25	"	"	"	"	"	
Selenium	0.401	0.25	"	"	"	"	"	
Silver	0.04	0.25	"	"	"	"	"	J
Zinc	38.1	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.5	mg/Kg	1	L568481	08/06/2021	08/11/2021	
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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

WH-BG02@3'
8/6/2021 10:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108147-08 (Soil)

Total Metals by 6020-B

Arsenic	7.39	0.25	mg/Kg	5	L568330	08/10/2021	08/12/2021	
Barium	122	0.25	"	"	"	"	"	
Cadmium	0.231	0.25	"	"	"	"	"	J
Copper	15.7	0.25	"	"	"	"	"	
Lead	14.2	0.25	"	"	"	"	"	
Nickel	20.1	0.25	"	"	"	"	"	
Selenium	0.59	0.25	"	"	"	"	"	
Silver	0.0895	0.25	"	"	"	"	"	J
Zinc	74.3	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.5	mg/Kg	1	L568481	08/06/2021	08/11/2021	
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

WH-BG02@6'
8/6/2021 10:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108147-09 (Soil)

Total Metals by 6020-B

Arsenic	2.84	0.25	mg/Kg	5	L568330	08/10/2021	08/12/2021	
Barium	157	0.25	"	"	"	"	"	
Cadmium	0.168	0.25	"	"	"	"	"	J
Copper	10.2	0.25	"	"	"	"	"	
Lead	9.56	0.25	"	"	"	"	"	
Nickel	13.5	0.25	"	"	"	"	"	
Selenium	0.499	0.25	"	"	"	"	"	
Silver	0.0419	0.25	"	"	"	"	"	J
Zinc	45.6	2.5	"	"	"	"	"	

Total Metals by 7196-A

Chromium, Hexavalent	ND	0.5	mg/Kg	1	L568485	08/06/2021	08/11/2021	
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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

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 B1H0635 - EPA 5030 (soil)										
Blank (B1H0635-BLK1)					Prepared: 08/06/2021 Analyzed: 08/06/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.0	70-130			
Surrogate: Toluene-d8	0.10		"	0.125		84.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H0635 - EPA 5030 (soil)

LCS (B1H0635-BS1)

Prepared: 08/06/2021 Analyzed: 08/06/2021

1,2,4-Trimethylbenzene	0.0453	0.00200	mg/kg	0.0500		90.5	70-130			
Naphthalene	0.0459	0.0100	"	0.0500		91.9	70-130			
1,3,5-Trimethylbenzene	0.0430	0.00200	"	0.0500		85.9	70-130			
Benzene	0.0475	0.00200	"	0.0500		95.1	70-130			
Ethylbenzene	0.0405	0.00200	"	0.0500		81.0	70-130			
m,p-Xylene	0.0835	0.00400	"	0.100		83.5	70-130			
o-Xylene	0.0412	0.00200	"	0.0500		82.4	70-130			
Toluene	0.0440	0.00200	"	0.0500		87.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

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 B1H0635 - EPA 5030 (soil)										
Matrix Spike (B1H0635-MS1)		Source: Y108145-01			Prepared: 08/06/2021 Analyzed: 08/06/2021					
1,2,4-Trimethylbenzene	0.0511	0.00200	mg/kg	0.0500	ND	102	70-130			
Naphthalene	0.0421	0.0100	"	0.0500	ND	84.2	70-130			
1,3,5-Trimethylbenzene	0.0497	0.00200	"	0.0500	ND	99.4	70-130			
Benzene	0.0631	0.00200	"	0.0500	ND	126	70-130			
Ethylbenzene	0.0490	0.00200	"	0.0500	ND	98.0	70-130			
m,p-Xylene	0.103	0.00400	"	0.100	ND	103	70-130			
o-Xylene	0.0509	0.00200	"	0.0500	ND	102	70-130			
Toluene	0.0551	0.00200	"	0.0500	ND	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

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 B1H0635 - EPA 5030 (soil)										
Matrix Spike Dup (B1H0635-MSD1)		Source: Y108145-01			Prepared: 08/06/2021 Analyzed: 08/06/2021					
1,2,4-Trimethylbenzene	0.0524	0.00200	mg/kg	0.0500	ND	105	70-130	2.55	20	
Naphthalene	0.0438	0.0100	"	0.0500	ND	87.6	70-130	4.01	20	
1,3,5-Trimethylbenzene	0.0510	0.00200	"	0.0500	ND	102	70-130	2.54	20	
Benzene	0.0655	0.00200	"	0.0500	ND	131	70-130	3.83	20	QM-07
Ethylbenzene	0.0502	0.00200	"	0.0500	ND	100	70-130	2.34	20	
m,p-Xylene	0.106	0.00400	"	0.100	ND	106	70-130	2.56	20	
o-Xylene	0.0520	0.00200	"	0.0500	ND	104	70-130	2.10	20	
Toluene	0.0571	0.00200	"	0.0500	ND	114	70-130	3.57	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

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 B1H0636 - EPA 3550B										
Blank (B1H0636-BLK1)					Prepared: 08/06/2021 Analyzed: 08/07/2021					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	45		"	50.0		90.1	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H0636 - EPA 3550B

LCS (B1H0636-BS1)

Prepared: 08/06/2021 Analyzed: 08/07/2021

Diesel (C10-C28)	959	50.0	mg/kg	1000		95.9	70-130			
Residual Range Organics (C28-C40)	1280	200	"	1000		128	70-130			
Surrogate: o-Terphenyl	49		"	50.0		97.4	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H0636 - EPA 3550B

Matrix Spike (B1H0636-MS1)		Source: Y108145-10			Prepared: 08/06/2021 Analyzed: 08/07/2021					
Diesel (C10-C28)	1510	50.0	mg/kg	1000	ND	151	70-130			QM-07
Residual Range Organics (C28-C40)	1470	200	"	1000	ND	147	70-130			QM-07
Surrogate: o-Terphenyl	50		"	50.0		99.4	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H0636 - EPA 3550B

Matrix Spike Dup (B1H0636-MSD1)		Source: Y108145-10			Prepared: 08/06/2021 Analyzed: 08/07/2021					
Diesel (C10-C28)	936	50.0	mg/kg	1000	ND	93.6	70-130	47.1	35	QR-03
Residual Range Organics (C28-C40)	813	200	"	1000	ND	81.3	70-130	57.3	35	QR-03
Surrogate: o-Terphenyl	46		"	50.0		92.2	50-150			

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Saturated Paste - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H2003 - NO PREP

Duplicate (B1H2003-DUP1)			Source: Y108419-06		Prepared: 08/20/2021 Analyzed: 08/20/2021					
pH	8.06		pH Units		8.21			1.84	25	

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L570238 - 3050B										
MSD (L 93479-MSD-L570238)		Source: 93479			Prepared: 08/20/2021 Analyzed: 08/24/2021					
Barium	121	0.042	mg/Kg	4.7	113	170	75-125	14.1	80	*
MS (L 93479-MS-L570238)		Source: 93479			Prepared: 08/20/2021 Analyzed: 08/24/2021					
Barium	105	0.042	mg/Kg	4.93	113	NR	75-125			*
LCS (LCS-L570238)					Prepared: 08/20/2021 Analyzed: 08/24/2021					
Barium	5.17	0.042	mg/Kg	5		103	80-120			
LRB (LRB-L570238)					Prepared: 08/20/2021 Analyzed: 08/24/2021					
Barium	0.0808	0.25	mg/Kg				-			J

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L568617 - 3550B

MSD (L 88519-MSD-L568617)		Source: 88519			Prepared: 08/11/2021 Analyzed: 08/12/2021					
Pyrene	0.131	0.00194	mg/Kg	0.163	88519	80.3	30-130	3.7	30	
2-Methylnaphthalene	0.12	0.00271	"	0.163	88519	73.6	30-130	7.2	30	
1-Methylnaphthalene	0.123	0.0024	"	0.163	88519	75.4	30-130	5.5	30	
Fluorene	0.124	0.00251	"	0.163	88519	76	30-130	5.4	30	
Chrysene	0.141	0.00128	"	0.163	88519	86.5	30-130	4.8	30	
Acenaphthene	0.123	0.00216	"	0.163	88519	75.4	30-130	6.2	30	
Anthracene	0.133	0.00213	"	0.163	88519	81.5	30-130	7.9	30	
Benzo(a)anthracene	0.141	0.00221	"	0.163	0.00247	86.5	30-130	7.5	30	
Benzo(a)pyrene	0.128	0.000665	"	0.163	88519	78.5	30-130	6	30	
Benzo(b)fluoranthene	0.119	0.00069	"	0.163	88519	73	30-130	9.6	30	
Naphthalene	0.12	0.00234	"	0.163	88519	73.6	30-130	7.2	30	
Benzo(k)fluoranthene	0.122	0.00243	"	0.163	88519	74.8	30-130	4	30	
Dibenz(a,h)anthracene	0.139	0.0014	"	0.163	88519	85.2	30-130	6.9	30	
Fluoranthene	0.131	0.00265	"	0.163	88519	80.3	30-130	3.7	30	
Indeno(1,2,3-cd)pyrene	0.128	0.00172	"	0.163	88519	78.5	30-130	6.7	30	
Surrogate: Nitrobenzene-d5	69.4		"	0.327	227	69.4	29-110			
Surrogate: 2-Fluorobiphenyl	80.1		"	0.327	256	80.1	33-115			
Surrogate: 4-Terphenyl-d14	76.4		"	0.327	234	76.4	33-122			

MS (L 88519-MS-L568617)		Source: 88519			Prepared: 08/11/2021 Analyzed: 08/12/2021					
Indeno(1,2,3-cd)pyrene	0.137	0.00172	mg/Kg	0.162	88519	84.5	30-130			
Chrysene	0.148	0.00128	"	0.162	88519	91.3	30-130			
Benzo(k)fluoranthene	0.127	0.00243	"	0.162	88519	78.3	30-130			
Benzo(b)fluoranthene	0.131	0.00069	"	0.162	88519	80.8	30-130			
Benzo(a)pyrene	0.136	0.000665	"	0.162	88519	83.9	30-130			
Benzo(a)anthracene	0.152	0.00221	"	0.162	0.00247	93.8	30-130			
Dibenz(a,h)anthracene	0.149	0.0014	"	0.162	88519	91.9	30-130			

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L568617 - 3550B

MS (L 88519-MS-L568617)		Source: 88519			Prepared: 08/11/2021 Analyzed: 08/12/2021					
Fluoranthene	0.136	0.00265	mg/Kg	0.162	88519	83.9	30-130			
Naphthalene	0.129	0.00234	"	0.162	88519	79.6	30-130			
Anthracene	0.144	0.00213	"	0.162	88519	88.8	30-130			
1-Methylnaphthalene	0.13	0.0024	"	0.162	88519	80.2	30-130			
2-Methylnaphthalene	0.129	0.00271	"	0.162	88519	79.6	30-130			
Fluorene	0.131	0.00251	"	0.162	88519	80.8	30-130			
Acenaphthene	0.131	0.00216	"	0.162	88519	80.8	30-130			
Pyrene	0.136	0.00194	"	0.162	88519	83.9	30-130			
Surrogate: Nitrobenzene-d5	72		"	0.325	221	72	29-110			
Surrogate: 4-Terphenyl-d14	79.3		"	0.325	234	79.3	33-122			
Surrogate: 2-Fluorobiphenyl	86.7		"	0.325	256	86.7	33-115			

LCS (LCS-L568617)		Prepared: 08/11/2021 Analyzed: 08/12/2021								
Benzo(a)pyrene	0.122	0.000133	mg/Kg	0.167		73	30-130			
Anthracene	0.119	0.000426	"	0.167		71.2	30-130			
Acenaphthene	0.106	0.000431	"	0.167		63.4	30-130			
2-Methylnaphthalene	0.117	0.000542	"	0.167		70	30-130			
1-Methylnaphthalene	0.118	0.00048	"	0.167		70.6	30-130			
Benzo(b)fluoranthene	0.108	0.000138	"	0.167		64.6	30-130			
Benzo(a)anthracene	0.137	0.000441	"	0.167		82	30-130			
Benzo(k)fluoranthene	0.104	0.000486	"	0.167		62.2	30-130			
Pyrene	0.112	0.000387	"	0.167		67	30-130			
Naphthalene	0.111	0.000467	"	0.167		66.4	30-130			
Indeno(1,2,3-cd)pyrene	0.127	0.000344	"	0.167		76	30-130			
Fluorene	0.11	0.000501	"	0.167		65.8	30-130			
Fluoranthene	0.115	0.000529	"	0.167		68.8	30-130			
Dibenz(a,h)anthracene	0.133	0.000279	"	0.167		79.6	30-130			

Origins Laboratory, Inc.

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L568617 - 3550B

LCS (LCS-L568617)

Prepared: 08/11/2021 Analyzed: 08/12/2021

Chrysene	0.122	0.000256	mg/Kg	0.167		73	30-130			
Surrogate: 4-Terphenyl-d14	60.6		"	0.333		60.6	33-122			
Surrogate: 2-Fluorobiphenyl	69.6		"	0.333		69.6	33-115			
Surrogate: Nitrobenzene-d5	70.2		"	0.333		70.2	29-110			

LRB (LRB-L568617)

Prepared: 08/11/2021 Analyzed: 08/12/2021

Chrysene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	72.6		"	0.333		72.6	29-110			
Surrogate: 4-Terphenyl-d14	62.1		"	0.333		62.1	33-122			
Surrogate: 2-Fluorobiphenyl	69.6		"	0.333		69.6	33-115			

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L568329 - 3050B										
MSD (L 88510-MSD-L568329)			Source: Y108147-01		Prepared: 08/10/2021 Analyzed: 08/12/2021					
Cadmium	0.705	0.0259	mg/Kg	0.494	0.189	143	75-125	8.7	80	*
Silver	0.534	0.0067	"	0.494	0.0605	108	75-125	8.7	80	
Arsenic	4.72	0.0855	"	2.47	2.95	72	75-125	6.1	80	I*
Barium	1060	0.042	"	4.94	736	NR	75-125	21.9	80	*
Lead	12.1	0.031	"	2.47	9.28	114	75-125	13.2	80	
Selenium	3.87	0.103	"	4.94	0.526	68	75-125	6.9	80	I*
Zinc	71	0.534	"	24.7	43.3	112	75-125	12.4	80	
Copper	13.7	0.0806	"	2.47	10.9	113	75-125	9.1	80	
Nickel	16.4	0.0633	"	2.47	12.7	150	75-125	13.6	80	*
MS (L 88510-MS-L568329)			Source: Y108147-01		Prepared: 08/10/2021 Analyzed: 08/12/2021					
Zinc	62.7	0.534	mg/Kg	22.9	43.3	85	75-125			
Silver	0.489	0.0067	"	0.457	0.0605	107	75-125			
Selenium	3.61	0.103	"	4.57	0.526	67	75-125			I*
Nickel	14.3	0.0633	"	2.29	12.7	70	75-125			*
Lead	10.6	0.031	"	2.29	9.28	58	75-125			*
Copper	12.5	0.0806	"	2.29	10.9	70	75-125			*
Cadmium	0.646	0.0259	"	0.457	0.189	141	75-125			*
Barium	850	0.042	"	4.57	736	NR	75-125			*
Arsenic	4.44	0.0855	"	2.29	2.95	65	75-125			I*
LCS (LCS-L568329)			Prepared: 08/10/2021 Analyzed: 08/12/2021							
Selenium	4.8	0.103	mg/Kg	5		96	80-120			
Silver	0.498	0.0067	"	0.5		100	80-120			
Nickel	2.59	0.0633	"	2.5		104	80-120			
Lead	2.45	0.031	"	2.5		98	80-120			
Copper	2.68	0.0806	"	2.5		107	80-120			

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L568329 - 3050B

LCS (LCS-L568329)

Prepared: 08/10/2021 Analyzed: 08/12/2021

Cadmium	0.493	0.0259	mg/Kg	0.5		99	80-120			
Barium	4.57	0.042	"	5		91	80-120			
Arsenic	2.39	0.0855	"	2.5		96	80-120			
Zinc	25.9	0.534	"	25		104	80-120			

LRB (LRB-L568329)

Prepared: 08/10/2021 Analyzed: 08/12/2021

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

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L568330 - 3050B

MSD (L 88531-MSD-L568330)		Source: 88531			Prepared: 08/10/2021 Analyzed: 08/12/2021					
Arsenic	4.65	0.0855	mg/Kg	2.39	2.82	77	75-125	0.4	80	
Cadmium	0.549	0.0259	"	0.478	0.126	115	75-125	7.8	80	
Silver	0.51	0.0067	"	0.478	0.0404	107	75-125	4.4	80	
Copper	15.7	0.0806	"	2.39	15.3	17	75-125	1.9	80	I*
Lead	9.04	0.031	"	2.39	6.1	123	75-125	0.8	80	
Nickel	13.5	0.0633	"	2.39	9.97	148	75-125	1.4	80	*
Selenium	3.86	0.103	"	4.78	0.478	71	75-125	3.9	80	I*
Zinc	57.9	0.534	"	23.9	31.5	111	75-125	0.1	80	
Barium	113	0.042	"	4.78	126	NR	75-125	13.2	80	*
MS (L 88531-MS-L568330)		Source: 88531			Prepared: 08/10/2021 Analyzed: 08/12/2021					
Lead	8.96	0.031	mg/Kg	2.39	6.1	120	75-125			
Zinc	58	0.534	"	23.9	31.5	111	75-125			
Silver	0.533	0.0067	"	0.477	0.0404	112	75-125			
Arsenic	4.63	0.0855	"	2.39	2.82	76	75-125			
Nickel	13.3	0.0633	"	2.39	9.97	140	75-125			*
Copper	15.4	0.0806	"	2.39	15.3	4	75-125			I*
Cadmium	0.594	0.0259	"	0.477	0.126	125	75-125			
Barium	129	0.042	"	4.77	126	63	75-125			*
Selenium	3.71	0.103	"	4.77	0.478	68	75-125			I*
LCS (LCS-L568330)		Prepared: 08/10/2021 Analyzed: 08/12/2021								
Arsenic	2.56	0.0855	mg/Kg	2.5		102	80-120			
Zinc	26.2	0.534	"	25		105	80-120			
Silver	0.533	0.0067	"	0.5		107	80-120			
Selenium	4.77	0.103	"	5		95	80-120			
Nickel	2.8	0.0633	"	2.5		112	80-120			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L568330 - 3050B										
LCS (LCS-L568330)					Prepared: 08/10/2021 Analyzed: 08/12/2021					
Lead	2.55	0.031	mg/Kg	2.5		102	80-120			
Copper	2.73	0.0806	"	2.5		109	80-120			
Cadmium	0.547	0.0259	"	0.5		109	80-120			
Barium	4.86	0.042	"	5		97	80-120			
LRB (LRB-L568330)					Prepared: 08/10/2021 Analyzed: 08/12/2021					
Zinc	ND	2.5	mg/Kg				-			
Cadmium	ND	0.25	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	0.0387	0.25	"				-			J
Copper	0.126	0.25	"				-			J
Arsenic	ND	0.25	"				-			
Barium	0.435	0.25	"				-			*

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

Total Metals by 7196A - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L568481 -										
DUP (L 87635-DUP)		Source: 87635			Prepared: Analyzed: 08/11/2021					
Chromium, Hexavalent	ND	0.251	mg/Kg		87635	-		0	20	
MS (L 87635-MS)		Source: 87635			Prepared: Analyzed: 08/11/2021					
Chromium, Hexavalent	ND	0.245	mg/Kg	8.05	87635	0	75-125			*

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

Total Metals by 7196-A - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L568485 -										
DUP (L 88514-DUP)		Source: Y108147-09			Prepared: Analyzed: 08/11/2021					
Chromium, Hexavalent	ND	0.248	mg/Kg		88514	-		0	20	
MS (L 88514-MS)		Source: Y108147-09			Prepared: Analyzed: 08/11/2021					
Chromium, Hexavalent	5.33	0.244	mg/Kg	8.04	88514	66	75-125			*
LCS (LCS)					Prepared: Analyzed: 08/11/2021					
Chromium, Hexavalent	6.05	0.244	mg/Kg	8		76	75-125			
LRB (LRB)					Prepared: Analyzed: 08/11/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

Notes and Definitions

- U Sample is Non-Detect.
- S-07 High surrogate in sample, however sample is non-detect. High surrogate indicates result values are biased high.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- J Estimated Value. Analyte below reported quantitation limit.
- I* [Undefined]
- * QC Failure
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

October 27, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Benson Farms 12N-23HZ Project Number - 90343531

Attached are your analytical results for KMG - Benson Farms 12N-23HZ received by Origins Laboratory, Inc. October 22, 2021. This project is associated with Origins project number Y110470-01.

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



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B02@9'	Y110470-01	Soil	October 22, 2021 13:35	10/22/2021 14:43
WH-S03@8'	Y110470-02	Soil	October 22, 2021 13:37	10/22/2021 14:43
WH-E03@8'	Y110470-03	Soil	October 22, 2021 13:39	10/22/2021 14:43
WH-W03@8'	Y110470-04	Soil	October 22, 2021 13:41	10/22/2021 14:43

Origins Laboratory, Inc.



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

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

ORIGINS

LABORATORY, INC

910470

www.originslaboratory.com

page 1 of 1

Client: ONY Tasman

Project Manager: Mike John

Address: _____

Project Name: Benson Farms 12N-23H2

Project Number: 90343531

Telephone Number: _____

Samples Collected By: gk

Email Address: mjohn@tasman-qeo.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	TPH (ppm)	DH *	Metals (Box only)	
WH-B03E91	10-22-21	1336	2	X					X				X	X	*saturated paste
WH-S03E81		1337	1												2
WH-E03E81		1339	1												3
WH-W03E81		1341	1												4
															5
															6
															7
															8
															9
															10
Relinquished By: <u>Steve Wally</u>	Date: <u>10-22-21</u>	Time: <u>14:41</u>		Received By: <u>SH</u>				Date: <u>10/22/21</u>	Time: <u>14:43</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard					
Relinquished By: _____	Date: _____	Time: _____		Received By: _____				Date: _____	Time: _____						

Temp Received: 14.4

Date Results Needed

Origins Laboratory, Inc.

Menk

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4110470 Client: Tasman
Client Project ID: Benson Farms 12N-23HZ

Checklist Completed by: JK Shipped Via: FD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 10/02/01 Airbill #: N/A

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

Cooler Number/Temperature: 1 14.4 °C 1 °C 1 °C 1 °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>same day</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 NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Jordan A. Merrill
Reviewed by (Project Manager)

Date/Time Reviewed

Origins Laboratory, Inc.

Jordan A. Merrill

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

WH-B02@9'

10/22/2021 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110470-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1J2215	10/22/2021	10/22/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	97.7 %		50-150			"	"	"	
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GBTEX+TMBs

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B1J2216	10/22/2021	10/25/2021	U
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Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			"	"	"	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

pH in Soil by 9045D

pH	8.21			pH Units	1	B1J2219	10/22/2021	10/23/2021	
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Total Metals by 6020B

Barium	21.7	0.042	0.25	mg/Kg	5	L581004	10/25/2021	10/26/2021	
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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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

WH-S03@8'

10/22/2021 1:37:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y110470-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1J2215	10/22/2021	10/22/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	90.4 %		50-150			"	"	"	
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GBTEX+TMBs

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B1J2216	10/22/2021	10/25/2021	U
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Surrogate: 1,2-Dichloroethane-d4	101 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

pH in Soil by 9045D

pH	8.10			pH Units	1	B1J2219	10/22/2021	10/23/2021	
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Total Metals by 6020B

Barium	189	0.042	0.25	mg/Kg	5	L581004	10/25/2021	10/26/2021	
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

WH-E03@8'

10/22/2021 1:39:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110470-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1J2215	10/22/2021	10/22/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.4 %		50-150			"	"	"	
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GBTEX+TMBs

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B1J2216	10/22/2021	10/25/2021	U
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Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

pH in Soil by 9045D

pH	8.24			pH Units	1	B1J2219	10/22/2021	10/23/2021	
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Total Metals by 6020B

Barium	143	0.042	0.25	mg/Kg	5	L581004	10/25/2021	10/26/2021	
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

WH-W03@8'

10/22/2021 1:41:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110470-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1J2215	10/22/2021	10/22/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.1 %		50-150			"	"	"	
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GBTEX+TMBs

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B1J2216	10/22/2021	10/25/2021	U
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Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

pH in Soil by 9045D

pH	8.09			pH Units	1	B1J2219	10/22/2021	10/23/2021	
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Total Metals by 6020B

Barium	188	0.042	0.25	mg/Kg	5	L581004	10/25/2021	10/26/2021	
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6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

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 B1J2215 - EPA 3550B										
Blank (B1J2215-BLK1)					Prepared: 10/22/2021 Analyzed: 10/25/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	25.0		91.3	50-150			

Origins Laboratory, Inc.



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6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1J2215 - EPA 3550B

LCS (B1J2215-BS1)

Prepared: 10/22/2021 Analyzed: 10/22/2021

Diesel (C10-C28)	1030	50.0	mg/kg	1000		103	70-130			
Residual Range Organics (C28-C40)	1150	200	"	1000		115	70-130			
Surrogate: o-Terphenyl	49		"	50.0		97.1	50-150			

Origins Laboratory, Inc.



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Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

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 B1J2215 - EPA 3550B										
Matrix Spike (B1J2215-MS1)		Source: Y110469-01			Prepared: 10/22/2021 Analyzed: 10/22/2021					
Diesel (C10-C28)	2510	50.0	mg/kg	1000	1180	134	70-130			QM-07
Residual Range Organics (C28-C40)	1690	200	"	1000	810	88.2	70-130			
Surrogate: o-Terphenyl	45		"	50.0		89.1	50-150			

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6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

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 B1J2215 - EPA 3550B										
Matrix Spike Dup (B1J2215-MSD1)		Source: Y110469-01			Prepared: 10/22/2021 Analyzed: 10/22/2021					
Diesel (C10-C28)	3140	50.0	mg/kg	1000	1180	196	70-130	22.1	35	QM-07
Residual Range Organics (C28-C40)	1940	200	"	1000	810	113	70-130	13.6	35	
Surrogate: o-Terphenyl	45		"	50.0		89.1	50-150			

Origins Laboratory, Inc.

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Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

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 B1J2216 - EPA 5030 (soil)										
Blank (B1J2216-BLK1)					Prepared: 10/22/2021 Analyzed: 10/22/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.11		"	0.125	90.4		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	103		70-130			

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

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 B1J2216 - EPA 5030 (soil)										
LCS (B1J2216-BS1)					Prepared: 10/22/2021 Analyzed: 10/22/2021					
1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100		104	70-130			
Naphthalene	0.0889	0.0100	"	0.100		88.9	70-130			
1,3,5-Trimethylbenzene	0.0996	0.00200	"	0.100		99.6	70-130			
Benzene	0.120	0.00200	"	0.100		120	70-130			
Ethylbenzene	0.0972	0.00200	"	0.100		97.2	70-130			
m,p-Xylene	0.199	0.00400	"	0.200		99.4	70-130			
o-Xylene	0.0997	0.00200	"	0.100		99.7	70-130			
Toluene	0.110	0.00200	"	0.100		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.5	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1J2216 - EPA 5030 (soil)

Matrix Spike (B1J2216-MS1)		Source: Y110463-01			Prepared: 10/22/2021 Analyzed: 10/22/2021					
1,2,4-Trimethylbenzene	0.0850	0.00200	mg/kg	0.100	ND	85.0	70-130			
Naphthalene	0.0695	0.0100	"	0.100	ND	69.5	70-130			QM-07
1,3,5-Trimethylbenzene	0.0843	0.00200	"	0.100	ND	84.3	70-130			
Benzene	0.0883	0.00200	"	0.100	ND	88.3	70-130			
Ethylbenzene	0.0851	0.00200	"	0.100	ND	85.1	70-130			
m,p-Xylene	0.169	0.00400	"	0.200	0.00116	84.0	70-130			
o-Xylene	0.0855	0.00200	"	0.100	ND	85.5	70-130			
Toluene	0.0881	0.00200	"	0.100	ND	88.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.6	70-130			

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Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

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 B1J2216 - EPA 5030 (soil)										
Matrix Spike Dup (B1J2216-MSD1)		Source: Y110463-01			Prepared: 10/22/2021 Analyzed: 10/22/2021					
1,2,4-Trimethylbenzene	0.0877	0.00200	mg/kg	0.100	ND	87.7	70-130	3.13	20	
Naphthalene	0.0776	0.0100	"	0.100	ND	77.6	70-130	10.9	20	
1,3,5-Trimethylbenzene	0.0869	0.00200	"	0.100	ND	86.9	70-130	3.08	20	
Benzene	0.0819	0.00200	"	0.100	ND	81.9	70-130	7.52	20	
Ethylbenzene	0.0871	0.00200	"	0.100	ND	87.1	70-130	2.30	20	
m,p-Xylene	0.173	0.00400	"	0.200	0.00116	85.8	70-130	2.14	20	
o-Xylene	0.0882	0.00200	"	0.100	ND	88.2	70-130	3.13	20	
Toluene	0.0882	0.00200	"	0.100	ND	88.2	70-130	0.204	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	70-130			

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1J2219 - NO PREP

Duplicate (B1J2219-DUP1)

Source: Y110454-02

Prepared: 10/22/2021 Analyzed: 10/23/2021

pH	8.05	pH Units	7.98	0.873	25
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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L581004 - 3050B										
MSD (L 89651-MSD-L581004)	Source: 89651				Prepared: 10/25/2021 Analyzed: 10/26/2021					
Barium	65.8	0.042	mg/Kg	4.93	109	NR	75-125	9.8	80	*
MS (L 89651-MS-L581004)	Source: 89651				Prepared: 10/25/2021 Analyzed: 10/26/2021					
Barium	59.6	0.042	mg/Kg	4.78	109	NR	75-125			*
LCS (LCS-L581004)					Prepared: 10/25/2021 Analyzed: 10/26/2021					
Barium	4.83	0.042	mg/Kg	5		97	80-120			
LRB (LRB-L581004)					Prepared: 10/25/2021 Analyzed: 10/26/2021					
Barium	0.186	0.25	mg/Kg				-			J

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90343531
Project: KMG - Benson Farms 12N-23HZ

Notes and Definitions

U Sample is Non-Detect.

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

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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