



November 22, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - West Farms

Project Number - 90406875

Attached are your analytical results for KMG - West Farms received by Origins Laboratory, Inc. November 19, 2021. This project is associated with Origins project number Y111421-01.

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: 90406875
Project: KMG - West Farms

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B04@4'	Y111421-01	Soil	November 19, 2021 13:11	11/19/2021 16:58
FL-GW01	Y111421-02	Water	November 19, 2021 13:45	11/19/2021 16:58

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
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Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

ORIGINS
LABORATORY, INC

www.originslaboratory.com

Y111421

page 1 of 1

Client: Mike Jahn
Address: West Farms
Telephone Number: 90406875
Email Address: M.Jahn@tasman-geo.com
Project Manager: Mike Jahn
Project Name: West Farms
Project Number: 90406875
Samples Collected By: M. Jahn

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #			Other
FL-BD4041	11/19/21	13:11	2	X					X				1
FL-GW01	11/19/21	13:45	3	X					X				2
													3
													4
													5
													6
													7
													8
													9
													10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Relinquished By:	Date:	Time:	Received By:	Date:	Time:
<i>[Signature]</i>	11/19/21		<i>[Signature]</i>	11/19/21	16:58	<i>[Signature]</i>	11/19/21		<i>[Signature]</i>	11/19/21	

Background Time: ☒ Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard

Date Results Needed

Temp Received- 4.9

Origins Laboratory, Inc.

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6855 West 119th Avenue
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Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 711421

Client: Tasman

Client Project ID: West Farms

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 11/19/12

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid

☒ Water

Other: _____

(Describe)

Cooler Number/Temperature: 1,49.0 °C

°C

°C

°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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – Is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with Na ₂ AsO 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)

Date/Time Reviewed 11/19/12

Origins Laboratory, Inc.

Jen Pellegrini

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

FL-B04@4'

11/19/2021 1:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111421-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1K1928	ZZZ	11/19/2021	11/20/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 84.1 % 50-150 " " "

GBTEX+TMBs

1,2,4-Trimethylbenzene	0.0195	0.00200	mg/kg	1	B1K1929	JMA	11/19/2021	11/20/2021	
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JMA	"	"	U
Benzene	ND	0.00200	"	"	"	JMA	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JMA	"	"	U
Toluene	ND	0.00200	"	"	"	JMA	"	"	U
Gasoline Range Hydrocarbons	6.89	0.200	"	"	"	JMA	"	"	
Xylenes, total	ND	0.00200	"	"	"	JMA	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "
Surrogate: Toluene-d8 95.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 127 % 70-130 " " "

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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

FL-GW01

11/19/2021 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y111421-02 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	2.26	1.00	ug/L	1	B1K1907	JMA	11/19/2021	11/19/2021	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	JMA	"	"	U
Benzene	ND	1.00	"	"	"	JMA	"	"	U
Ethylbenzene	22.0	1.00	"	"	"	JMA	"	"	
Naphthalene	8.13	4.00	"	"	"	JMA	"	"	
Toluene	ND	1.00	"	"	"	JMA	"	"	U
Xylenes, total	ND	1.00	"	"	"	JMA	"	"	U

Surrogate: 1,2-Dichloroethane-d4	88.7 %	70-130			"	"	"
Surrogate: Toluene-d8	112 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"

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Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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 B1K1907 - EPA 5030B (Water)										
Blank (B1K1907-BLK1)					Prepared: 11/19/2021 Analyzed: 11/19/2021					
1,2,4-Trimethylbenzene	ND	1.00	ug/L							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	4.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.5	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	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 B1K1907 - EPA 5030B (Water)										
LCS (B1K1907-BS1)					Prepared: 11/19/2021 Analyzed: 11/19/2021					
1,2,4-Trimethylbenzene	53.7	1.00	ug/L	50.0		107	70-130			
1,3,5-Trimethylbenzene	54.2	1.00	"	50.0		108	70-130			
Benzene	52.3	1.00	"	50.0		105	70-130			
Ethylbenzene	55.0	1.00	"	50.0		110	70-130			
m,p-Xylene	107	2.00	"	100		107	70-130			
Naphthalene	51.4	4.00	"	50.0		103	70-130			
o-Xylene	52.0	1.00	"	50.0		104	70-130			
Toluene	56.6	1.00	"	50.0		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	53		"	62.5		84.8	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		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
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Batch B1K1907 - EPA 5030B (Water)

Matrix Spike (B1K1907-MS1)		Source: Y111351-01			Prepared: 11/19/2021 Analyzed: 11/19/2021					
1,2,4-Trimethylbenzene	52.5	1.00	ug/L	50.0	ND	105	70-130			
1,3,5-Trimethylbenzene	52.6	1.00	"	50.0	ND	105	70-130			
Benzene	53.2	1.00	"	50.0	2.48	101	70-130			
Ethylbenzene	52.8	1.00	"	50.0	ND	106	70-130			
m,p-Xylene	102	2.00	"	100	ND	102	70-130			
Naphthalene	48.0	4.00	"	50.0	ND	95.9	70-130			
o-Xylene	50.8	1.00	"	50.0	ND	102	70-130			
Toluene	53.4	1.00	"	50.0	ND	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.7	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1K1907 - EPA 5030B (Water)										
Matrix Spike Dup (B1K1907-MSD1)	Source: Y111351-01				Prepared: 11/19/2021 Analyzed: 11/19/2021					
1,2,4-Trimethylbenzene	53.2	1.00	ug/L	50.0	ND	106	70-130	1.40	20	
1,3,5-Trimethylbenzene	54.0	1.00	"	50.0	ND	108	70-130	2.72	20	
Benzene	54.6	1.00	"	50.0	2.48	104	70-130	2.61	20	
Ethylbenzene	55.0	1.00	"	50.0	ND	110	70-130	4.07	20	
m,p-Xylene	104	2.00	"	100	ND	104	70-130	2.06	20	
Naphthalene	48.7	4.00	"	50.0	ND	97.4	70-130	1.55	20	
o-Xylene	51.0	1.00	"	50.0	ND	102	70-130	0.334	20	
Toluene	55.0	1.00	"	50.0	ND	110	70-130	2.90	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.8	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		102	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1K1928 - EPA 3550B										
Blank (B1K1928-BLK1)					Prepared: 11/19/2021 Analyzed: 11/19/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		97.6	50-150			

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Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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 B1K1928 - EPA 3550B

LCS (B1K1928-BS1)

Prepared: 11/19/2021 Analyzed: 11/19/2021

Diesel (C10-C28)	859	50.0	mg/kg	1000		85.9	70-130			
Residual Range Organics (C28-C40)	865	200	"	1000		86.5	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.6	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1K1928 - EPA 3550B

Matrix Spike (B1K1928-MS1)		Source: Y111417-01			Prepared: 11/19/2021 Analyzed: 11/19/2021					
Diesel (C10-C28)	793	50.0	mg/kg	1000	ND	79.3	70-130			
Residual Range Organics (C28-C40)	801	200	"	1000	ND	80.1	70-130			
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1K1928 - EPA 3550B

Matrix Spike Dup (B1K1928-MSD1)		Source: Y111417-01			Prepared: 11/19/2021 Analyzed: 11/19/2021					
Diesel (C10-C28)	856	50.0	mg/kg	1000	ND	85.6	70-130	7.65	35	
Residual Range Organics (C28-C40)	837	200	"	1000	ND	83.7	70-130	4.41	35	
Surrogate: o-Terphenyl	48		"	49.8		96.2	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1K1929 - EPA 5030 (soil)										
Blank (B1K1929-BLK1)					Prepared: 11/19/2021 Analyzed: 11/19/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							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	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1K1929 - EPA 5030 (soil)										
LCS (B1K1929-BS1)					Prepared: 11/19/2021 Analyzed: 11/19/2021					
1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100		107	70-130			
Naphthalene	0.101	0.0100	"	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.104	0.00200	"	0.100		104	70-130			
m,p-Xylene	0.204	0.00400	"	0.200		102	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
Toluene	0.100	0.00200	"	0.100		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1K1929 - EPA 5030 (soil)

Matrix Spike (B1K1929-MS1)		Source: Y111417-01			Prepared: 11/19/2021 Analyzed: 11/19/2021					
1,2,4-Trimethylbenzene	0.0983	0.00200	mg/kg	0.100	0.000800	97.5	70-130			
Naphthalene	0.0981	0.0100	"	0.100	0.00324	94.9	70-130			
1,3,5-Trimethylbenzene	0.0976	0.00200	"	0.100	0.000420	97.2	70-130			
Benzene	0.0931	0.00200	"	0.100	ND	93.1	70-130			
Ethylbenzene	0.0970	0.00200	"	0.100	ND	97.0	70-130			
m,p-Xylene	0.193	0.00400	"	0.200	ND	96.7	70-130			
o-Xylene	0.0984	0.00200	"	0.100	ND	98.4	70-130			
Toluene	0.0925	0.00200	"	0.100	ND	92.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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 B1K1929 - EPA 5030 (soil)										
Matrix Spike Dup (B1K1929-MSD1)		Source: Y111417-01			Prepared: 11/19/2021 Analyzed: 11/19/2021					
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	0.000800	105	70-130	7.71	20	
Naphthalene	0.105	0.0100	"	0.100	0.00324	101	70-130	6.51	20	
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	0.000420	105	70-130	7.68	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	7.92	20	
Ethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	7.60	20	
m,p-Xylene	0.209	0.00400	"	0.200	ND	104	70-130	7.79	20	
o-Xylene	0.107	0.00200	"	0.100	ND	107	70-130	8.22	20	
Toluene	0.100	0.00200	"	0.100	ND	100	70-130	8.11	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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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.

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