

May 01, 2019

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Ferme Farms P 13-06 DI

Project Number - AFE: 2148398.PAB

Attached are your analytical results for KMG - Ferme Farms P 13-06 DI received by Origins Laboratory, Inc. April 24, 2019. This project is associated with Origins project number Y904407-01.

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: AFE: 2148398.PAB
Project: KMG - Ferme Farms P 13-06 DI

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@5'	Y904407-01	Soil	April 24, 2019 12:22	04/24/2019 16:35
N01@4'	Y904407-02	Soil	April 24, 2019 12:24	04/24/2019 16:35
S01@4'	Y904407-03	Soil	April 24, 2019 12:26	04/24/2019 16:35
E01@4'	Y904407-04	Soil	April 24, 2019 12:28	04/24/2019 16:35
W01@4'	Y904407-05	Soil	April 24, 2019 12:30	04/24/2019 16:35

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 Project: KMG - Ferme Farms P 13-06 DI

www.originslaboratory.com
 page 1 of 1

ORIGINS
 LABORATORY, INC
 4904467

Client: HAC Project Manager/Send Report To: Robert Cornez
 Address: _____ Email Address: cornez@tasmangeo.com
 Telephone Number: _____ Project Name/Number: Ferme Farms P 13-06 Ferme Farming AFE2148398.PAB
 Samples Collected By: BCL

Sample ID Description	Date Sampled	Time Sampled	# of Containers				Preservative			Matrix			Analysis/Method			Sample Instructions	
			Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	GBEX-N 3000	Pro/RO 3015	EC	PH	SAR		
B01S1	04/24/19	12:22	2				X				X	X	X				
N01S1		12:24									X	X	X				
S01S1		12:25									X	X	X				
F01S1		12:28									X	X	X				
W01S1		12:30									X	X	X				
B02S1		12:37	2								X	X	X				hold
																	Project name revised
																	per the email from
																	Mike on 4/25/19.gp
Relinquished By: <u>MW BCL</u>	Date: <u>4/24/19</u>	Time: <u>17:00</u>	Time: _____	Date: _____	Time: _____	Received By: <u>[Signature]</u>	Date: <u>4/24/19</u>	Time: <u>16:35</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> Standard								
Relinquished By: _____	Date: _____	Time: _____	Time: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____									

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

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
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 Denver CO 80211

Bob Cornez
 Project Number: AFE: 2148398.PAB
 Project: KMG - Ferme Farms P 13-06 DI

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4904107

Client: Tasman

Client Project ID: KMG - Ferme Farms P 13-06

Checklist Completed by: Dan Lee

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

Date/time completed: 4/24/19

Airbill #: _____

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

Cooler Number/Temperature: 1 / 3.4 °C _____ °C _____ °C _____ °C (Describe)

Thermometer ID: 1003

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"/>			PH
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) _____

4-24-19
 Date/Time Reviewed

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: AFE: 2148398.PAB
 Project: KMG - Ferme Farms P 13-06 DI

B01@5'

4/24/2019 12:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904407-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2403	JTD	04/24/2019	04/24/2019	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	JTD	"	"	U

Surrogate: *o*-Terphenyl 87.4 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9D2406	JTD	04/24/2019	04/24/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U
Naphthalene	ND	0.008	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 120 % 70-130 " " "
 Surrogate: Toluene-d8 111 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.1 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.36		me/L	1	'[none]'		04/25/2019	04/30/2019	
Magnesium	1.34		"	"	"		"	"	
Sodium	0.74		"	"	"		"	"	

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 Project: KMG - Ferme Farms P 13-06 DI

B01@5'

4/24/2019 12:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904407-01 (Soil)

pH in Soil by EPA 9045D

pH	7.01		pH Units	1	B9D2407	OLAB	04/24/2019	04/24/2019	
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SAR by 20B Saturated Paste

SAR	0.54			1	'[none]'		04/25/2019	04/30/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0205	0.00509	mmhos/cm	1	B9D2408	OLAB	04/24/2019	04/24/2019	
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 Project Number: AFE: 2148398.PAB
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N01@4'

4/24/2019 12:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y904407-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2403	JTD	04/24/2019	04/24/2019	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	JTD	"	"	U

Surrogate: *o*-Terphenyl 88.8 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9D2406	JTD	04/24/2019	04/24/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U
Naphthalene	ND	0.008	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 124 % 70-130 " " "
 Surrogate: Toluene-d8 110 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.9 % 70-130 " " "

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 Project Number: AFE: 2148398.PAB
 Project: KMG - Ferme Farms P 13-06 DI

S01@4'

4/24/2019 12:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y904407-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2403	JTD	04/24/2019	04/24/2019	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl 89.2 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9D2406	JTD	04/24/2019	04/24/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U
Naphthalene	ND	0.008	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 120 % 70-130 " " "
 Surrogate: Toluene-d8 112 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.8 % 70-130 " " "

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Bob Cornez
 Project Number: AFE: 2148398.PAB
 Project: KMG - Ferme Farms P 13-06 DI

E01@4'

4/24/2019 12:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y904407-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2403	JTD	04/24/2019	04/24/2019	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	JTD	"	"	U

Surrogate: *o*-Terphenyl 87.1 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	0.250	0.200	mg/kg	1	B9D2406	JTD	04/24/2019	04/24/2019	
Benzene	0.003	0.002	"	"	"	JTD	"	"	
Toluene	0.027	0.002	"	"	"	JTD	"	"	
Ethylbenzene	0.002	0.002	"	"	"	JTD	"	"	
Xylenes, total	0.030	0.002	"	"	"	JTD	"	"	
Naphthalene	ND	0.008	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 121 % 70-130 " " "
 Surrogate: Toluene-d8 111 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.7 % 70-130 " " "

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 Project Number: AFE: 2148398.PAB
 Project: KMG - Ferme Farms P 13-06 DI

W01@4'

4/24/2019 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y904407-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2403	JTD	04/24/2019	04/24/2019	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	JTD	"	"	U

Surrogate: *o*-Terphenyl 85.3 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9D2406	JTD	04/24/2019	04/24/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U
Naphthalene	ND	0.008	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 123 % 70-130 " " "
 Surrogate: Toluene-d8 111 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.4 % 70-130 " " "

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 Denver CO 80211

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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 B9D2403 - EPA 3580										
Blank (B9D2403-BLK1)										
					Prepared: 04/24/2019 Analyzed: 04/24/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	45		"	50.0		89.8	50-150			

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 Denver CO 80211

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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 B9D2403 - EPA 3580										
LCS (B9D2403-BS1)					Prepared: 04/24/2019 Analyzed: 04/24/2019					
Diesel (C10-C28)	1020	50.0	mg/kg	1000		102	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	70-130			
Surrogate: o-Terphenyl	51		"	50.0		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 B9D2403 - EPA 3580

Matrix Spike (B9D2403-MS1)	Source: Y904401-02			Prepared: 04/24/2019 Analyzed: 04/24/2019						
Diesel (C10-C28)	1060	50.0	mg/kg	1000	ND	106	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000	9.58	106	70-130			
Surrogate: o-Terphenyl	51		"	50.0		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 B9D2403 - EPA 3580

Matrix Spike Dup (B9D2403-MSD1)	Source: Y904401-02		Prepared: 04/24/2019 Analyzed: 04/24/2019							
Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	70-130	3.59	35	
Residual Range Organics (C28-C40)	1030	200	"	1000	9.58	102	70-130	3.84	35	
Surrogate: o-Terphenyl	50		"	50.0		100	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 B9D2406 - EPA 5030 (soil)

Blank (B9D2406-BLK1)

Prepared: 04/24/2019 Analyzed: 04/24/2019

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125	127		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	106		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.2		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
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Batch B9D2406 - EPA 5030 (soil)

LCS (B9D2406-BS1)

Prepared: 04/24/2019 Analyzed: 04/24/2019

Benzene	0.095	0.002	mg/kg	0.100		95.2	70-130			
Toluene	0.111	0.002	"	0.100		111	70-130			
Ethylbenzene	0.112	0.002	"	0.100		112	70-130			
m,p-Xylene	0.196	0.004	"	0.200		98.0	70-130			
o-Xylene	0.108	0.002	"	0.100		108	70-130			
Naphthalene	0.102	0.008	"	0.100		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	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
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Batch B9D2406 - EPA 5030 (soil)

Matrix Spike (B9D2406-MS1)	Source: Y904401-02			Prepared: 04/24/2019 Analyzed: 04/24/2019						
Benzene	0.074	0.002	mg/kg	0.100	0.0009	72.8	70-130			
Toluene	0.097	0.002	"	0.100	ND	96.9	70-130			
Ethylbenzene	0.094	0.002	"	0.100	0.002	91.9	70-130			
m,p-Xylene	0.163	0.004	"	0.200	0.003	80.0	70-130			
o-Xylene	0.092	0.002	"	0.100	0.0003	91.7	70-130			
Naphthalene	0.107	0.008	"	0.100	0.005	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		110	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: AFE: 2148398.PAB
 Project: KMG - Ferme Farms P 13-06 DI

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 B9D2406 - EPA 5030 (soil)

Matrix Spike Dup (B9D2406-MSD1)	Source: Y904401-02			Prepared: 04/24/2019 Analyzed: 04/24/2019						
Benzene	0.069	0.002	mg/kg	0.100	0.0009	68.4	70-130	6.10	20	QM-07
Toluene	0.090	0.002	"	0.100	ND	90.4	70-130	6.96	20	
Ethylbenzene	0.091	0.002	"	0.100	0.002	88.2	70-130	4.00	20	
m,p-Xylene	0.155	0.004	"	0.200	0.003	76.0	70-130	5.04	20	
o-Xylene	0.088	0.002	"	0.100	0.0003	88.0	70-130	4.09	20	
Naphthalene	0.110	0.008	"	0.100	0.005	105	70-130	2.93	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		111	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	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
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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 B9D2407 - NO PREP

Duplicate (B9D2407-DUP1)

Source: Y904407-01

Prepared: 04/24/2019 Analyzed: 04/24/2019

pH	6.93		pH Units		7.01			1.15	25	
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Batch B9D2408 - NO PREP

Blank (B9D2408-BLK1)

Prepared: 04/24/2019 Analyzed: 04/24/2019

Specific Conductance (EC)	0.00210	0.00500	mmhos/cm							
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Duplicate (B9D2408-DUP1)

Source: Y904407-01

Prepared: 04/24/2019 Analyzed: 04/24/2019

Specific Conductance (EC)	0.0239	0.00500	mmhos/cm		0.0205			15.3	25	
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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: AFE: 2148398.PAB
Project: KMG - Ferme Farms P 13-06 DI

Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President