

July 25, 2024

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Paragon Farms 42-25

Project Number - [none]

Attached are your analytical results for KMG - Paragon Farms 42-25 received by Origins Laboratory, Inc. July 24, 2024. This project is associated with Origins project number Y407637-01.

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

Andy Sagen  
Project Number: [none]  
Project: KMG - Paragon Farms 42-25

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
REL-B01@3"	Y407637-01	Soil	July 24, 2024 8:30	07/24/2024 16:44
BG-01@3"	Y407637-02	Soil	July 24, 2024 8:32	07/24/2024 16:44
BG-02@3"	Y407637-03	Soil	July 24, 2024 8:34	07/24/2024 16:44
BG-03@3"	Y407637-04	Soil	July 24, 2024 8:36	07/24/2024 16:44
BG-04@3"	Y407637-05	Soil	July 24, 2024 8:38	07/24/2024 16:44

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Jen Pellegrini, Project Manager



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 Broomfield CO 80020

Andy Sagen  
 Project Number: [none]  
 Project: KMG - Paragon Farms 42-25

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4407037 Client: Tasman  
 Client Project ID: Paragon  
 Checklist Completed by: JM 12/10 Shipped Via: HL  
 Date/time completed: 7/24/14 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: L, 10 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C  
 Thermometer ID: 7005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>SD</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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>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 7/24/14

Origins Laboratory, Inc.

*Jefe Pellegrini*

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 Broomfield CO 80020

Andy Sagen  
 Project Number: [none]  
 Project: KMG - Paragon Farms 42-25

**REL-B01@3"**  
**7/24/2024 8:30:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407637-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	<b>1980</b>	25.0	mg/kg	1	B4G2404	ADM	07/24/2024	07/24/2024	
Residual Range Organics (C28-C40)	<b>500</b>	100	"	"	"	ADM	"	"	

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

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	<b>22.9</b>	0.500	mg/kg	250	B4G2431	HKS	07/24/2024	07/24/2024	
1,3,5-Trimethylbenzene	<b>8.86</b>	0.0500	"	25	"	HKS	"	07/24/2024	
Benzene	<b>8.96</b>	0.0500	"	"	"	HKS	"	"	
Ethylbenzene	<b>9.62</b>	0.0500	"	"	"	HKS	"	"	
Toluene	<b>44.7</b>	0.500	"	250	"	HKS	"	07/24/2024	
Xylenes, total	<b>71.9</b>	0.500	"	"	"	HKS	"	"	
Gasoline Range Hydrocarbons	<b>1360</b>	50.0	"	"	"	HKS	"	"	

Surrogate: 1,2-Dichloroethane-d4 122 % 70-130 " " 07/24/2024  
 Surrogate: Toluene-d8 170 % 70-130 " " " S-GC  
 Surrogate: 4-Bromofluorobenzene 93.7 % 70-130 " " "

**PAH by EPA 8270E**

1-Methylnaphthalene	<b>11.7</b>	0.200	mg/kg	100	B4G2426	Windo	07/24/2024	07/25/2024	
2-Methylnaphthalene	<b>23.7</b>	0.200	"	"	"	Windo	"	"	
Acenaphthene	ND	0.200	"	10	"	Windo	"	07/24/2024	R-05, U
Anthracene	<b>0.257</b>	0.200	"	"	"	Windo	"	"	

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REL-B01@3"  
 7/24/2024 8:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407637-01 (Soil)**

**PAH by EPA 8270E**

Benzo (a) anthracene	ND	0.050	mg/kg	10	B4G2426	Windo	07/24/2024	07/24/2024	R-05, U
Benzo (a) pyrene	ND	0.200	"	"	"	Windo	"	"	R-05, U
Benzo (b) fluoranthene	ND	0.200	"	"	"	Windo	"	"	R-05, U
Benzo (k) fluoranthene	ND	0.200	"	"	"	Windo	"	"	R-05, U
Chrysene	ND	0.200	"	"	"	Windo	"	"	R-05, U
Dibenz (a,h) anthracene	ND	0.200	"	"	"	Windo	"	"	R-05, U
Fluoranthene	ND	0.200	"	"	"	Windo	"	"	R-05, U
Fluorene	<b>2.06</b>	0.200	"	"	"	Windo	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.200	"	"	"	Windo	"	"	R-05, U
Naphthalene	<b>5.55</b>	0.020	"	"	"	Windo	"	"	
Pyrene	ND	0.200	"	"	"	Windo	"	"	R-05, U

Surrogate: Fluorene-d10	96.7 %	60-130			"	"	"	
Surrogate: Anthracene-d10	103 %	60-130			"	"	"	
Surrogate: Pyrene-d10	93.6 %	60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.6 %	60-130			"	"	"	

**Table 915 metals by EPA 6020B**

Arsenic	<b>3.52</b>	0.259	mg/kg	10	B4G2438	HJD	07/24/2024	07/25/2024
Barium	<b>111</b>	8.94	"	"	"	HJD	"	"
Cadmium	<b>0.470</b>	0.0894	"	"	"	HJD	"	"
Copper	<b>19.1</b>	8.94	"	"	"	HJD	"	"

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**REL-B01@3"**

**7/24/2024 8:30:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407637-01 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	7.92	0.894	mg/kg	10	B4G2438	HJD	07/24/2024	07/25/2024	
Nickel	9.43	0.894	"	"	"	HJD	"	"	
Selenium	0.985	0.233	"	"	"	HJD	"	"	
Silver	ND	0.0894	"	"	"	HJD	"	"	U
Zinc	33.6	33.1	"	"	"	HJD	"	"	

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**BG-01@3"**

**7/24/2024 8:32:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y407637-02 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	2.01	0.276	mg/kg	10	B4G2438	HJD	07/24/2024	07/25/2024	
Barium	66.5	9.50	"	"	"	HJD	"	"	
Cadmium	0.139	0.0950	"	"	"	HJD	"	"	
Copper	ND	9.50	"	"	"	HJD	"	"	U
Lead	8.02	0.950	"	"	"	HJD	"	"	
Nickel	5.49	0.950	"	"	"	HJD	"	"	
Selenium	ND	0.247	"	"	"	HJD	"	"	U
Silver	ND	0.0950	"	"	"	HJD	"	"	U
Zinc	ND	35.2	"	"	"	HJD	"	"	U

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**BG-02@3"**

**7/24/2024 8:34:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407637-03 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	2.58	0.253	mg/kg	10	B4G2438	HJD	07/24/2024	07/25/2024	
Barium	88.2	8.72	"	"	"	HJD	"	"	
Cadmium	0.185	0.0872	"	"	"	HJD	"	"	
Copper	ND	8.72	"	"	"	HJD	"	"	U
Lead	8.91	0.872	"	"	"	HJD	"	"	
Nickel	7.90	0.872	"	"	"	HJD	"	"	
Selenium	ND	0.227	"	"	"	HJD	"	"	U
Silver	ND	0.0872	"	"	"	HJD	"	"	U
Zinc	37.3	32.3	"	"	"	HJD	"	"	

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**BG-03@3"**

**7/24/2024 8:36:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407637-04 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	2.34	0.270	mg/kg	10	B4G2438	HJD	07/24/2024	07/25/2024	
Barium	79.0	9.32	"	"	"	HJD	"	"	
Cadmium	0.196	0.0932	"	"	"	HJD	"	"	
Copper	ND	9.32	"	"	"	HJD	"	"	U
Lead	8.78	0.932	"	"	"	HJD	"	"	
Nickel	6.62	0.932	"	"	"	HJD	"	"	
Selenium	ND	0.242	"	"	"	HJD	"	"	U
Silver	ND	0.0932	"	"	"	HJD	"	"	U
Zinc	ND	34.5	"	"	"	HJD	"	"	U

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**BG-04@3"**

**7/24/2024 8:38:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407637-05 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	4.91	0.275	mg/kg	10	B4G2438	HJD	07/24/2024	07/25/2024	
Barium	70.1	9.50	"	"	"	HJD	"	"	
Cadmium	0.317	0.0950	"	"	"	HJD	"	"	
Copper	10.0	9.50	"	"	"	HJD	"	"	
Lead	9.86	0.950	"	"	"	HJD	"	"	
Nickel	8.30	0.950	"	"	"	HJD	"	"	
Selenium	0.739	0.247	"	"	"	HJD	"	"	
Silver	ND	0.0950	"	"	"	HJD	"	"	U
Zinc	46.3	35.1	"	"	"	HJD	"	"	

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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
<b>Batch B4G2404 - EPA 3550B</b>										
<b>Blank (B4G2404-BLK1)</b>										
					Prepared: 07/24/2024 Analyzed: 07/24/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		87.3	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 B4G2404 - EPA 3550B**

**LCS (B4G2404-BS1)**

Prepared: 07/24/2024 Analyzed: 07/24/2024

Diesel (C10-C28)	856	50.0	mg/kg	1000		85.6	70-130			
Residual Range Organics (C28-C40)	981	200	"	1000		98.1	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.6	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 B4G2404 - EPA 3550B**

<b>Matrix Spike (B4G2404-MS1)</b>	<b>Source: Y407627-01</b>			Prepared: 07/24/2024 Analyzed: 07/24/2024						
Diesel (C10-C28)	867	50.0	mg/kg	1000	ND	86.7	70-130			
Residual Range Organics (C28-C40)	993	200	"	1000	ND	99.3	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.3	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 B4G2404 - EPA 3550B**

<b>Matrix Spike Dup (B4G2404-MSD1)</b>	<b>Source: Y407627-01</b>			<b>Prepared: 07/24/2024 Analyzed: 07/24/2024</b>						
Diesel (C10-C28)	989	50.0	mg/kg	1000	ND	98.9	70-130	13.2	35	
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130	6.17	35	
Surrogate: o-Terphenyl	51		"	49.8		102	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 B4G2431 - EPA 5030 (soil)**

**Blank (B4G2431-BLK1)**

Prepared: 07/24/2024 Analyzed: 07/24/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	115		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	101		70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125	108		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 B4G2431 - EPA 5030 (soil)**

**LCS (B4G2431-BS1)**

Prepared: 07/24/2024 Analyzed: 07/24/2024

1,2,4-Trimethylbenzene	0.0968	0.00200	mg/kg	0.100		96.8	70-130			
1,3,5-Trimethylbenzene	0.0974	0.00200	"	0.100		97.4	70-130			
Benzene	0.0936	0.00200	"	0.100		93.6	70-130			
Ethylbenzene	0.0937	0.00200	"	0.100		93.7	70-130			
Naphthalene	0.0971	0.00380	"	0.100		97.1	70-130			
Toluene	0.0933	0.00200	"	0.100		93.3	70-130			
o-Xylene	0.0951	0.00200	"	0.100		95.1	70-130			
m,p-Xylene	0.187	0.00400	"	0.200		93.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	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 B4G2431 - EPA 5030 (soil)

Matrix Spike (B4G2431-MS1)	Source: Y407627-01			Prepared: 07/24/2024 Analyzed: 07/24/2024						
1,2,4-Trimethylbenzene	0.0876	0.00200	mg/kg	0.100	ND	87.6	70-130			
1,3,5-Trimethylbenzene	0.0889	0.00200	"	0.100	ND	88.9	70-130			
Benzene	0.0850	0.00200	"	0.100	ND	85.0	70-130			
Ethylbenzene	0.0833	0.00200	"	0.100	ND	83.3	70-130			
Naphthalene	0.0932	0.00380	"	0.100	ND	93.2	70-130			
Toluene	0.0854	0.00200	"	0.100	ND	85.4	70-130			
o-Xylene	0.0861	0.00200	"	0.100	ND	86.1	70-130			
m,p-Xylene	0.166	0.00400	"	0.200	ND	83.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.6	70-130			

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 Broomfield CO 80020

Andy Sagen  
 Project Number: [none]  
 Project: KMG - Paragon Farms 42-25

**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 B4G2431 - EPA 5030 (soil)

Matrix Spike Dup (B4G2431-MSD1)	Source: Y407627-01			Prepared: 07/24/2024 Analyzed: 07/24/2024						
1,2,4-Trimethylbenzene	0.0940	0.00200	mg/kg	0.100	ND	94.0	70-130	6.98	20	
1,3,5-Trimethylbenzene	0.0957	0.00200	"	0.100	ND	95.7	70-130	7.39	20	
Benzene	0.0906	0.00200	"	0.100	ND	90.6	70-130	6.40	20	
Ethylbenzene	0.0897	0.00200	"	0.100	ND	89.7	70-130	7.37	20	
Naphthalene	0.105	0.00380	"	0.100	ND	105	70-130	11.5	20	
Toluene	0.0910	0.00200	"	0.100	ND	91.0	70-130	6.39	20	
o-Xylene	0.0923	0.00200	"	0.100	ND	92.3	70-130	6.88	20	
m,p-Xylene	0.179	0.00400	"	0.200	ND	89.3	70-130	7.16	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		119	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.6	70-130			

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 Project: KMG - Paragon Farms 42-25

**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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**Metals by EPA 6000/7000 Series Methods - 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 B4G2438 - EPA 3050B**

**Blank (B4G2438-BLK1)**

Prepared: 07/24/2024 Analyzed: 07/25/2024

Arsenic	ND	0.290	mg/kg							U
Barium	ND	10.0	"							U
Cadmium	ND	0.100	"							U
Copper	ND	10.0	"							U
Lead	ND	1.00	"							U
Nickel	ND	1.00	"							U
Selenium	ND	0.260	"							U
Silver	ND	0.100	"							U
Zinc	ND	37.0	"							U

**LCS (B4G2438-BS1)**

Prepared: 07/24/2024 Analyzed: 07/25/2024

Arsenic	5.35	0.290	mg/kg	5.00		107	80-120
Barium	540	10.0	"	500		108	80-120
Cadmium	5.46	0.100	"	5.00		109	80-120
Copper	52.3	10.0	"	50.0		105	80-120
Lead	5.34	1.00	"	5.00		107	80-120
Nickel	5.20	1.00	"	5.00		104	80-120
Selenium	5.38	0.260	"	5.00		108	80-120
Silver	5.22	0.100	"	5.00		104	80-120
Zinc	53.7	37.0	"	50.0		107	80-120

**Matrix Spike (B4G2438-MS1)**

Source: Y407622-01

Prepared: 07/24/2024 Analyzed: 07/25/2024

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 Project Number: [none]  
 Project: KMG - Paragon Farms 42-25

**Metals by EPA 6000/7000 Series Methods - 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 B4G2438 - EPA 3050B**

<b>Matrix Spike (B4G2438-MS1)</b>		<b>Source: Y407622-01</b>			Prepared: 07/24/2024 Analyzed: 07/25/2024					
Arsenic	7.44	0.283	mg/kg	4.88	2.50	101	75-125			
Barium	591	9.76	"	488	64.3	108	75-125			
Cadmium	5.58	0.0976	"	4.88	0.193	110	75-125			
Copper	58.8	9.76	"	48.8	8.04	104	75-125			
Lead	12.7	0.976	"	4.88	9.14	73.4	75-125			QM-07
Nickel	11.7	0.976	"	4.88	7.76	80.6	75-125			
Selenium	5.19	0.254	"	4.88	0.119	104	75-125			
Silver	5.17	0.0976	"	4.88	0.0795	104	75-125			
Zinc	82.1	36.1	"	48.8	35.8	94.8	75-125			

<b>Matrix Spike Dup (B4G2438-MSD1)</b>		<b>Source: Y407622-01</b>			Prepared: 07/24/2024 Analyzed: 07/25/2024					
Arsenic	7.41	0.263	mg/kg	4.54	2.50	108	75-125	0.446	20	
Barium	556	9.08	"	454	64.3	108	75-125	6.17	20	
Cadmium	5.22	0.0908	"	4.54	0.193	111	75-125	6.78	20	
Copper	58.4	9.08	"	45.4	8.04	111	75-125	0.787	20	
Lead	15.5	0.908	"	4.54	9.14	141	75-125	19.9	20	QM-07
Nickel	12.5	0.908	"	4.54	7.76	104	75-125	6.54	20	
Selenium	4.98	0.236	"	4.54	0.119	107	75-125	4.12	20	
Silver	4.83	0.0908	"	4.54	0.0795	105	75-125	6.89	20	
Zinc	88.6	33.6	"	45.4	35.8	116	75-125	7.60	20	

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 Project: KMG - Paragon Farms 42-25

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4G2426 - EPA 3580**

**Blank (B4G2426-BLK1)**

Prepared: 07/24/2024 Analyzed: 07/24/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	200		ug/kg	200		99.0	60-130			
Surrogate: Anthracene-d10	200		"	200		99.7	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.5	60-130			

**LCS (B4G2426-BS1)**

Prepared: 07/24/2024 Analyzed: 07/24/2024

1-Methylnaphthalene	0.177	0.002	mg/kg	0.200		88.4	70-130			
2-Methylnaphthalene	0.176	0.002	"	0.200		87.9	70-130			
Acenaphthene	0.177	0.020	"	0.200		88.6	70-130			
Anthracene	0.177	0.020	"	0.200		88.3	70-130			

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 Project: KMG - Paragon Farms 42-25

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4G2426 - EPA 3580**

**LCS (B4G2426-BS1)**

Prepared: 07/24/2024 Analyzed: 07/24/2024

Benzo (a) anthracene	0.180	0.005	mg/kg	0.200		90.1	70-130			
Benzo (a) pyrene	0.186	0.020	"	0.200		93.2	70-130			
Benzo (b) fluoranthene	0.187	0.020	"	0.200		93.5	70-130			
Benzo (g,h,i) perylene	0.184	0.020	"	0.200		91.8	70-130			
Benzo (k) fluoranthene	0.177	0.020	"	0.200		88.7	70-130			
Chrysene	0.183	0.020	"	0.200		91.6	70-130			
Dibenz (a,h) anthracene	0.177	0.020	"	0.200		88.7	70-130			
Fluoranthene	0.183	0.020	"	0.200		91.3	70-130			
Fluorene	0.179	0.020	"	0.200		89.6	70-130			
Indeno (1,2,3-cd) pyrene	0.176	0.020	"	0.200		87.8	70-130			
Naphthalene	0.192	0.002	"	0.200		95.8	70-130			
Phenanthrene	0.179	0.020	"	0.200		89.5	70-130			
Pyrene	0.192	0.020	"	0.200		96.0	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.6	60-130			
Surrogate: Anthracene-d10	200		"	200		99.9	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

**Matrix Spike (B4G2426-MS1)**

**Source: Y407574-03**

Prepared: 07/24/2024 Analyzed: 07/24/2024

1-Methylnaphthalene	0.192	0.002	mg/kg	0.200	0.0004	95.6	70-130			
2-Methylnaphthalene	0.189	0.002	"	0.200	0.0008	94.3	70-130			
Acenaphthene	0.193	0.020	"	0.200	ND	96.3	70-130			
Anthracene	0.195	0.020	"	0.200	0.002	96.9	70-130			
Benzo (a) anthracene	0.197	0.005	"	0.200	0.002	97.8	70-130			
Benzo (a) pyrene	0.208	0.020	"	0.200	ND	104	70-130			
Benzo (b) fluoranthene	0.205	0.020	"	0.200	0.001	102	70-130			
Benzo (g,h,i) perylene	0.197	0.020	"	0.200	0.001	97.8	70-130			

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4G2426 - EPA 3580**

<b>Matrix Spike (B4G2426-MS1)</b>		<b>Source: Y407574-03</b>			Prepared: 07/24/2024 Analyzed: 07/24/2024					
Benzo (k) fluoranthene	0.204	0.020	mg/kg	0.200	0.0007	102	70-130			
Chrysene	0.206	0.020	"	0.200	0.002	102	70-130			
Dibenz (a,h) anthracene	0.185	0.020	"	0.200	ND	92.6	70-130			
Fluoranthene	0.199	0.020	"	0.200	0.001	98.8	70-130			
Fluorene	0.193	0.020	"	0.200	ND	96.6	70-130			
Indeno (1,2,3-cd) pyrene	0.198	0.020	"	0.200	ND	98.8	70-130			
Naphthalene	0.189	0.002	"	0.200	ND	94.4	70-130			
Phenanthrene	0.193	0.020	"	0.200	ND	96.6	70-130			
Pyrene	0.215	0.020	"	0.200	0.002	107	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.3	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

<b>Matrix Spike Dup (B4G2426-MSD1)</b>		<b>Source: Y407574-03</b>			Prepared: 07/24/2024 Analyzed: 07/24/2024					
1-Methylnaphthalene	0.192	0.002	mg/kg	0.200	0.0004	96.0	70-130	0.403	20	
2-Methylnaphthalene	0.192	0.002	"	0.200	0.0008	95.5	70-130	1.31	20	
Acenaphthene	0.193	0.020	"	0.200	ND	96.6	70-130	0.357	20	
Anthracene	0.195	0.020	"	0.200	0.002	96.8	70-130	0.0427	20	
Benzo (a) anthracene	0.194	0.005	"	0.200	0.002	96.1	70-130	1.79	20	
Benzo (a) pyrene	0.206	0.020	"	0.200	ND	103	70-130	1.17	20	
Benzo (b) fluoranthene	0.209	0.020	"	0.200	0.001	104	70-130	2.16	20	
Benzo (g,h,i) perylene	0.201	0.020	"	0.200	0.001	99.8	70-130	2.05	20	
Benzo (k) fluoranthene	0.201	0.020	"	0.200	0.0007	100	70-130	1.36	20	
Chrysene	0.194	0.020	"	0.200	0.002	96.1	70-130	5.89	20	
Dibenz (a,h) anthracene	0.203	0.020	"	0.200	ND	102	70-130	9.32	20	
Fluoranthene	0.194	0.020	"	0.200	0.001	96.5	70-130	2.42	20	

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4G2426 - EPA 3580**

<b>Matrix Spike Dup (B4G2426-MSD1)</b>	<b>Source: Y407574-03</b>			<b>Prepared: 07/24/2024 Analyzed: 07/24/2024</b>						
Fluorene	0.192	0.020	mg/kg	0.200	ND	96.2	70-130	0.482	20	
Indeno (1,2,3-cd) pyrene	0.191	0.020	"	0.200	ND	95.6	70-130	3.31	20	
Naphthalene	0.191	0.002	"	0.200	ND	95.7	70-130	1.40	20	
Phenanthrene	0.196	0.020	"	0.200	ND	97.9	70-130	1.34	20	
Pyrene	0.208	0.020	"	0.200	0.002	103	70-130	3.34	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.1	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.4	60-130			

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Jen Pellegrini, Project Manager

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Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - Paragon Farms 42-25

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**Notes and Definitions**

- U Sample is Non-Detect.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported at a wet weight basis.

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Jen Pellegrini, Project Manager