

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
WADDLE 24-10J7 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL GAS ONSHORE, LP

Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	Submitted for Lab Analysis? (Y/N)
WELLHEAD EXCAVATION SAMPLES								
N Wall	8/26/2022	NA	0.8	NS	NO	40.20603818	-104.8371174	N
E Wall	8/26/2022	NA	1.0	NS	NO	40.20601901	-104.8370895	N
S Wall	8/26/2022	NA	0.0	NS	NO	40.20599714	-104.8371141	N
W Wall	8/26/2022	NA	0.0	NS	NO	40.2060151	-104.8371421	N
B01@6'-WP	8/26/2022	6	0.4	NS	NO	40.20602477	-104.837131	Y
FLOWLINE POTHOLE SAMPLES								
FL01@3'	8/26/2022	3	1.2	NS	NO	40.2061427	-104.8371404	Y
FL02@3' (Birkle #24-15L)	8/26/2022	3	1.4	NS	NO	40.20618589	-104.8372257	N
FL03@3' (Birkle #24-15L)	8/26/2022	3	2.1	NS	NO	40.20609844	-104.8372541	N
SEPARATOR RISER SAMPLES								
SEP-Riser@4'-WP	8/26/2022	4	3.1	NS	NO	40.20634137	-104.8371751	Y
BACKGROUND SOIL SAMPLES								
Native-BG01@4'	8/26/2022	4	1.2	NS	NO	40.20591041	-104.8370903	Y
Native-BG02@4'	8/26/2022	4	1.0	NS	NO	40.20593824	-104.8372099	Y
Native-BG03@4'	8/26/2022	4	0.9	NS	NO	40.20596691	-104.8370142	Y

Notes:

ft. - feet

bgs - below ground surface

PID - Photoionization detector

ppm - parts per million

NS - No Staining

NO - No Odor

NA - Not Analyzed/Not Applicable

TABLE 2-1
SOIL SAMPLE ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS
WADDLE 24-10J7 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	TPH-GRO ⁺ (mg/kg)	TPH-DRO ⁺ (mg/kg)	TPH-RRO ⁺ (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4- Trimethyl benzene (mg/kg)	1,3,5- Trimethyl benzene (mg/kg)	Naphthalene (mg/kg)
Groundwater Protection Values (GPV)			500	500	500	0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
WELLHEAD EXCAVATION SAMPLES												
B01@6'-WP	8/26/2022	6	<0.200	41.1	389	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
FLOWLINE SAMPLES												
FL01@3'	8/26/2022	3	<0.200	25.3	198	<0.00200	<0.00200	<0.00200	0.00452	<0.00200	<0.00200	<0.00380
FL02@3' (Birkle #24-15L)	8/26/2022	3	<0.200	97.1	109	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
FL03@3' (Birkle #24-15L)	8/26/2022	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
SEPARATOR RISER SAMPLES												
SEP-Riser@4'-WP	8/26/2022	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380

TABLE 2-2
SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
WADDLE 24-10J7 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	Acenaphthene (mg/Kg)	Anthracene (mg/Kg)	Benzo (a) anthracene (mg/Kg)	Benzo (b) fluoranthene (mg/Kg)	Benzo (k) fluoranthene (mg/Kg)	Benzo (a) pyrene (mg/Kg)	Chrysene (mg/Kg)	Dibenz (a,h) anthracene (mg/Kg)	Fluoranthene (mg/Kg)	Fluorene (mg/Kg)	Indeno (1,2,3-cd) pyrene (mg/Kg)	1-Methyl naphthalene (mg/Kg)	2-Methyl naphthalene (mg/Kg)	Pyrene (mg/Kg)
Groundwater Protection Values (GPV)			0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3
WELLHEAD EXCAVATION SAMPLES																
B01@6'-WP	8/26/2022	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FLOWLINE SAMPLES																
FL01@3'	8/26/2022	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL02@3' (Birkle #24-15L)	8/26/2022	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL03@3' (Birkle #24-15L)	8/26/2022	3	<0.00067	<0.00067	0.00102	0.00161	0.00052	0.00174	0.00156	<0.00067	0.00197	0.000677	0.000835	0.000837	0.0011	0.00223
SEPARATOR RISER SAMPLES																
SEP-Riser@4'-WP	8/26/2022	4	<0.00067	<0.00067	0.00184	0.00221	0.00177	0.0026	0.00281	<0.00067	0.00238	<0.00067	0.0012	<0.00067	<0.00067	0.00304

TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
WADDLE 24-10J7 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	EC (mmhos/cm)	SAR	pH	Boron (mg/L)
Groundwater Protection Values (GPV)			4	6	6-8.3	2
WELLHEAD EXCAVATION SAMPLES						
B01@6'-WP	8/26/2022	6	0.324	2.12	7.84	<0.0984
FLOWLINE SAMPLES						
FL01@3'	8/26/2022	3	0.905	4.69	8.33	0.381
FL02@3' (Birkle #24-15L)	8/26/2022	3	0.520	2.92	7.93	<0.982
FL03@3' (Birkle #24-15L)	8/26/2022	3	1.56	5.26	8.11	0.660
SEP-Riser@4'-WP	8/26/2022	4	0.414	0.939	8.14	0.244
BACKGROUND SAMPLES						
Native-BG01@4'	8/26/2022	4	0.545	2.92	8.22	<0.100
Native-BG02@4'	8/26/2022	4	1.05	3.90	8.21	<0.0988
Native-BG03@4'	8/26/2022	4	0.447	2.87	8.16	<0.0992

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
WADDLE 24-10J7 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
Groundwater Protection Value (GPV)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
WELLHEAD EXCAVATION SAMPLES												
B01@6'-WP	8/26/2022	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FLOWLINE SAMPLES												
FL01@3'	8/26/2022	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL02@3' (Birkle #24-15L)	8/26/2022	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL03@3' (Birkle #24-15L)	8/26/2022	3	3.47	139	0.196	<5	16.0	15.3	11.5	0.245	<0.0898	<89.8
SEPARATOR RISER SAMPLES												
SEP-Riser@4'-WP	8/26/2022	4	3.95	115	0.670	<5	24.0	25.2	<9.62	0.206	0.272	<96.2
BACKGROUND SAMPLES												
Native-BG01@4'	8/26/2022	4	0.673	22.3	<0.0820	<0.52	<8.20	<8.20	<8.20	<0.0820	<0.0820	<82.0
Native-BG02@4'	8/26/2022	4	0.929	32.9	<0.0981	<0.5	<9.81	<9.81	<9.81	<0.0981	<0.0981	<98.1
Native-BG03@4'	8/26/2022	4	0.281	<8.53	<0.0853	<0.51	<8.53	<8.53	<8.53	<0.0853	<0.0853	<85.3

TABLE 2-5
SOIL SAMPLE ANALYTICAL RESULTS
NOTES
WADDLE 24-10J7 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL GAS ONSHORE, LP

Notes:

GPV - Groundwater Protection Values (mg/kg)

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

RRO - Residual Range Organics

*Allowable level for TPH is 500 mg/kg for combined GRO, DRO, ORO

EC - Electrical Conductivity

SAR - Sodium Adsorption Ratio

mmhos/cm - millimhos per centimeter

<0.00200 - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

Bold - exceeds Table 915-1 allowable level and background

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
WADDLE 24-10J7 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- trimethylbenzene (µg/L)	1,3,5- trimethylbenzene (µg/L)	Total Dissolved Solids (ug/L)	Chloride Ion (ug/L)	Sulfate Ion (ug/L)	Depth to Water/ (Product Thickness) (ft bgs)
COGCC Allowable Levels		5	560	700	1400	140	67	67	1,070,000	250,000	250,000	
GW01	8/26/2022	<1.00	1.75	<1.00	<1.00	<2.00	<2.00	<2.00	NA	NA	NA	2.0
GW02	8/26/2022	2.86	90.9	8.94	148	<2.00	12.7	6.50	NA	NA	NA	2.0
GW03	8/26/2022	25.4	11.9	1.68	18.5	<2.00	10.0	2.63	848,000	199,000	200,000	2.0
GW04	8/26/2022	1.17	1.00	<1.00	<1.00	<2.00	<2.00	<2.00	NA	NA	NA	2.0
GW05	8/26/2022	35.0	15.9	1.49	<1.00	<2.00	2.79	<2.00	NA	199,000	201,000	2.0
GW-BG01	8/26/2022	NA	NA	NA	NA	NA	NA	NA	816,000	198,000	203,000	2.0
GW-BG02	8/26/2022	NA	NA	NA	NA	NA	NA	NA	856,000	194,000	223,000	2.0

Notes: COGCC - Colorado Oil and Gas Conservation Commission

µg/L - micrograms per liter

ft bgs - feet below ground surface

< - less than laboratory reporting limit

NA - not analyzed/not available

Excavation groundwater depth is approximate

Total dissolved solids and sulfate ion parameters based on background sample (GW-BG02) concentration x 1.25

BOLD = Analytical result is in exceedance of COGCC Table 915-1 groundwater standards.

September 23, 2022

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Waddle 24-10J7

Project Number - 09A1417156

Attached are your analytical results for KMG - Waddle 24-10J7 received by Origins Laboratory, Inc. August 26, 2022. This project is associated with Origins project number Y208673-01.

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



Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@6-WP	Y208673-01	Soil	August 26, 2022 11:00	08/26/2022 17:10
FL01@3	Y208673-02	Soil	August 26, 2022 11:05	08/26/2022 17:10
FL02@3	Y208673-03	Soil	August 26, 2022 11:10	08/26/2022 17:10
FL03@3	Y208673-04	Soil	August 26, 2022 11:15	08/26/2022 17:10
SEP-Riser@4-WP	Y208673-05	Soil	August 26, 2022 11:20	08/26/2022 17:10
GW01	Y208673-06	Water	August 26, 2022 11:25	08/26/2022 17:10
GW02	Y208673-07	Water	August 26, 2022 11:30	08/26/2022 17:10
GW03	Y208673-08	Water	August 26, 2022 11:35	08/26/2022 17:10
GW04	Y208673-09	Water	August 26, 2022 11:40	08/26/2022 17:10
GW05	Y208673-10	Water	August 26, 2022 11:45	08/26/2022 17:10
Native-BG01@4	Y208673-11	Soil	August 26, 2022 11:50	08/26/2022 17:10
Native-BG02@4	Y208673-12	Soil	August 26, 2022 11:55	08/26/2022 17:10
Native-BG03@4	Y208673-13	Soil	August 26, 2022 12:00	08/26/2022 17:10
GW-BG01	Y208673-14	Water	August 26, 2022 12:05	08/26/2022 17:10

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.

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417156

Project: KMG - Waddle 24-10J7

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-BG02	Y208673-15	Water	August 26, 2022 12:10	08/26/2022 17:10

Analysis added per the email from Jeremy Pike on 08/31/22. JEP

SEP-Riser@4'-WP: PAHs and Table 915-1 metals

Native-BG01@4', Native-BG02@4', and Native-BG03@4': Table 915-1 metals

GW03: TDS, chloride, sulfate

FL02@3' and FL03@3': GBTEXN, TMBs, TPH-DRO/ORO, EC, SAR, pH, and boron

GW04 and GW05: GBTEXN and TMBs

GW-BG01, GW-BG02: TDS, chloride, sulfate

Origins Laboratory, Inc.



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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417156

Project: KMG - Waddle 24-10J7

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408073

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ORIGINS
LABORATORY, INC

Client: Ensolum
Address:
Telephone Number: 303 681 1143
Email Address: Ensolum@kmg-team.com

Project Manager: Jeremy Espinoza
Project Name: Waddle 24-10J7
Project Number: 09A1417156
Samples Collected By: Kyle

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil			Air Summa
Bol06-wp	8/16/12	1100	2							X	X	Remaining 915 tests added to FLO303 per Jeremy's email
FLO03		1105	2							X	X	on 9/1 JB
FLO203		1110	2							X	X	Hold
FLO303		1115	2							X	X	Hold
Sep-Riser04-wp		1120	2							X	X	Antions added to
G401		1125	4							X	X	Antions added to
G402		1130	4							X	X	Antions added to
G403		1135	4							X	X	Antions added to
G404		1140	4							X	X	Antions added to
G405		1145	4							X	X	Antions added to

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
1725 Elk Place	8/26/12	1710	8/26/12	1710	7:10	24 Hr
						48 Hr
						72 Hr
						Standard

Date Results Needed

Temp Received- 0.8

Origins Laboratory, Inc.

J. Bynon

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417156

Project: KMG - Waddle 24-10J7

ORIGINS
LABORATORY, INC

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page 2 of 2

Client: Ensolum
Address: _____
Telephone Number: 303.861.7143
Email Address: Ensolum KMG Team

Project Manager: Jeremy Espinoza
Project Name: Waddle 24-10J7
Project Number: 09A1417156
Samples Collected By: Kyle Mathene

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Canister #	Other		
N0112-B60204	8/26/12	1150	2					X				PH, EC, SAR	1
N0112-B60204		1155	2					X					2
N0112-B60204		1200	2					X					3
G01-B601		1205	1					X					4
G01-B602		1210	1					X					5
													6
													7
													8
													9
													10

Relinquished By: [Signature] Date: 8/26/12 Time: 17:05
Relinquished By: [Signature] Date: 8/26/12 Time: 17:05

Received By: [Signature] Date: 8/26/12 Time: 17:05
Received By: [Signature] Date: 8/26/12 Time: 17:05

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

Date Results Needed

Temp Received- 68

Origins Laboratory, Inc.

[Signature]

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417156

Project: KMG - Waddle 24-10J7

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 42076473

Client: Ensolum

Client Project ID: Waddle 24-10J7

Checklist Completed by: TSN

Shipped Via: TD

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

Date/time completed: AUG 26 2022

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 0-7 °C 1 / _____ °C 1 / _____ °C (Describe) _____ °C

Thermometer ID: T004

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

AUG 26 2022
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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.

Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

B01@6-WP

8/26/2022 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208673-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0984	mg/L	1	B2H3001	08/30/2022	08/31/2022
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	41.1	25.0	mg/kg	1	B2H2629	08/26/2022	08/29/2022
Residual Range Organics (C28-C40)	389	100	"	"	"	"	"

Surrogate: o-Terphenyl	111 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H2630	08/26/2022	08/27/2022	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Naphthalene	ND	0.00380	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

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Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

B01@6-WP

8/26/2022 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208673-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130	B2H26 30	08/26/2022	08/27/2022
Surrogate: Toluene-d8	98.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.7 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.761	0.499	meq/L	10	[CALC]	08/29/2022	09/01/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.55	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.84	pH Units	1	B2H2907	08/29/2022	08/31/2022
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SAR by 20B Saturated Paste

SAR	2.12	SAR	1	B2H2902	08/29/2022	09/01/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.324	0.00500	mmhos/cm	1	B2H2907	08/29/2022	08/31/2022
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Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

FL01@3

8/26/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208673-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.381	0.101	mg/L	1	B2H3001	08/30/2022	08/31/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	25.3	25.0	mg/kg	1	B2H2629	08/26/2022	08/29/2022	
Residual Range Organics (C28-C40)	198	100	"	"	"	"	"	

Surrogate: o-Terphenyl	110 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H2630	08/26/2022	08/27/2022	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Naphthalene	ND	0.00380	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	0.00452	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130	"	"	"	"	"	
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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

FL01@3

8/26/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208673-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.5 %	70-130				B2H26 30	08/26/2022	08/27/2022	
Surrogate: 4-Bromofluorobenzene	97.2 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.90	0.499	meq/L	10	[CALC]	08/29/2022	09/01/2022	
Magnesium	0.958	0.823	"	"	"	"	"	
Sodium	5.61	0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.33		pH Units	1	B2H2907	08/29/2022	08/31/2022	
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SAR by 20B Saturated Paste

SAR	4.69		SAR	1	B2H2902	08/29/2022	09/01/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.905	0.00500	mmhos/cm	1	B2H2907	08/29/2022	08/31/2022	
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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

FL02@3

8/26/2022 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208673-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.982	mg/L	10	B2H3105	08/31/2022	09/01/2022
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	97.1	25.0	mg/kg	1	B2H3013	08/30/2022	08/31/2022
Residual Range Organics (C28-C40)	109	100	"	"	"	"	"

Surrogate: o-Terphenyl	94.2 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H3101	08/31/2022	08/31/2022	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Naphthalene	ND	0.00380	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

FL02@3

8/26/2022 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208673-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130	B2H3101	08/31/2022	08/31/2022
Surrogate: Toluene-d8	97.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	90.5 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.37	0.499	meq/L	10	[CALC]	08/31/2022	09/01/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.88	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.93	pH Units	1	B2H3108	08/31/2022	09/01/2022
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SAR by 20B Saturated Paste

SAR	2.92	SAR	1	B2H3102	08/31/2022	09/01/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.520	0.00500	mmhos/cm	1	B2H3108	08/31/2022	09/01/2022
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11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

FL03@3

8/26/2022 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208673-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.660	0.100	mg/L	1	B2H3105	08/31/2022	09/01/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2H3013	08/30/2022	08/31/2022	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	83.5 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H3101	08/31/2022	08/31/2022	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Naphthalene	ND	0.00380	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

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11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

FL03@3

8/26/2022 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208673-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			B2H31 01	08/31/2022	08/31/2022	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.5 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.44		0.499	meq/L	10	[CALC]	08/31/2022	09/01/2022	
Magnesium	2.74		0.823	"	"	"	"	"	
Sodium	9.25		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.000837	0.000364	0.00067	mg/Kg	1	L636065	09/07/2022	09/07/2022	
2-Methylnaphthalene	0.0011	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00102	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00174	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00161	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00052	0.000437	0.00067	"	"	"	"	"	J
Chrysene	0.00156	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00197	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.000677	0.000286	0.00067	"	"	"	"	"	

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

FL03@3

8/26/2022 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y208673-04 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.000835	0.000627	0.00067	mg/Kg	1	L636065	09/07/2022	09/07/2022
Pyrene	0.00223	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	62.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	73.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	59 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.11	pH Units	1	B2H3108	08/31/2022	09/01/2022
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SAR by 20B Saturated Paste

SAR	5.26	SAR	1	B2H3102	08/31/2022	09/01/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.56	0.00500	mmhos/cm	1	B2H3108	08/31/2022	09/01/2022
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Table 915 metals by EPA 6020B

Arsenic	3.47	0.0898	mg/kg	5	B2I0609	09/06/2022	09/07/2022
Barium	139	8.98	"	"	"	"	"
Cadmium	0.196	0.0898	"	"	"	"	"

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

FL03@3

8/26/2022 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208673-04 (Soil)

Table 915 metals by EPA 6020B

Copper	16.0		8.98	mg/kg	5	B210609	09/06/2022	09/07/2022	
Lead	15.3		8.98	"	"	"	"	"	
Nickel	11.5		8.98	"	"	"	"	"	
Selenium	0.245		0.0898	"	"	"	"	"	
Silver	ND		0.0898	"	"	"	"	"	Ua
Zinc	ND		89.8	"	"	"	"	"	Ua

Total Metals by 7196A

Chromium, Hexavalent	ND	2.44	5	mg/Kg	10	L636286	08/26/2022	09/08/2022	
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Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

SEP-Riser@4-WP

8/26/2022 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208673-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.244	0.0987	mg/L	1	B2H3001	08/30/2022	08/31/2022
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	26.4	25.0	mg/kg	1	B2H2629	08/26/2022	08/29/2022
Residual Range Organics (C28-C40)	132	100	"	"	"	"	"

Surrogate: o-Terphenyl	102 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H2630	08/26/2022	08/27/2022	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Naphthalene	ND	0.00380	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

SEP-Riser@4-WP

8/26/2022 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208673-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	112 %		70-130			B2H26 30	08/26/2022	08/27/2022
Surrogate: Toluene-d8	95.2 %		70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	94.2 %		70-130			"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.03		0.499	meq/L	10	[CALC]	08/30/2022	09/01/2022
Magnesium	ND		0.823	"	"	"	"	"
Sodium	1.09		0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L635566	09/02/2022	09/02/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.00184	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.0026	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.00221	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.00177	0.000437	0.00067	"	"	"	"	"
Chrysene	0.00281	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.00238	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

SEP-Riser@4-WP

8/26/2022 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y208673-05 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L635566	09/02/2022	09/02/2022
Indeno(1,2,3-cd)pyrene	0.0012	0.000627	0.00067	"	"	"	"	"
Pyrene	0.00304	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	55.3 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	70.2 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	56.5 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.14			pH Units	1	B2H3003	08/30/2022	08/31/2022
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SAR by 20B Saturated Paste

SAR	0.939			SAR	1	B2H3002	08/30/2022	09/01/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.414		0.00500	mmhos/cm	1	B2H3003	08/30/2022	08/31/2022
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Table 915 metals by EPA 6020B

Arsenic	3.95		0.0962	mg/kg	5	B2I0609	09/06/2022	09/07/2022
Barium	115		9.62	"	"	"	"	"

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

SEP-Riser@4-WP

8/26/2022 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208673-05 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.670	0.0962	mg/kg	5	B210609	09/06/2022	09/07/2022	
Copper	24.0	9.62	"	"	"	"	"	
Lead	25.2	9.62	"	"	"	"	"	
Nickel	ND	9.62	"	"	"	"	"	Ua
Selenium	0.206	0.0962	"	"	"	"	"	
Silver	0.272	0.0962	"	"	"	"	"	
Zinc	ND	96.2	"	"	"	"	"	Ua

Total Metals by 7196A

Chromium, Hexavalent	ND	2.44	5	mg/Kg	10	L635795	08/26/2022	09/06/2022
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

GW01

8/26/2022 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208673-06 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2H2908	08/29/2022	08/29/2022	Ua
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	"	"	Ua
Benzene	ND	1.00	"	"	"	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	"	"	Ua
Naphthalene	ND	2.00	"	"	"	"	"	Ua
Toluene	1.75	1.00	"	"	"	"	"	
Xylenes, total	ND	1.00	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	85.8 %	70-130	"	"	"

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

GW02

8/26/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208673-07 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	12.7	2.00	ug/L	1	B2H2908	08/29/2022	08/29/2022	
1,3,5-Trimethylbenzene	6.50	2.00	"	"	"	"	"	
Benzene	2.86	1.00	"	"	"	"	"	
Ethylbenzene	8.94	1.00	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	Ua
Toluene	90.9	1.00	"	"	"	"	"	
Xylenes, total	148	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	99.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.1 %	70-130	"	"	"

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

GW03

8/26/2022 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208673-08 (Water)

Anions by IC 300.0

Chloride	199		31.2	mg/L	125	B2H3117	08/31/2022	08/31/2022	
Sulfate	200		31.2	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	10.0		2.00	ug/L	1	B2H2908	08/29/2022	08/29/2022	
1,3,5-Trimethylbenzene	2.63		2.00	"	"	"	"	"	
Benzene	25.4		1.00	"	"	"	"	"	
Ethylbenzene	1.68		1.00	"	"	"	"	"	
Naphthalene	ND		2.00	"	"	"	"	"	Ua
Toluene	11.9		1.00	"	"	"	"	"	
Xylenes, total	18.5		1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.9 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	91.8 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	848		5.00	mg/L	1	B2H3115	08/31/2022	08/31/2022	
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Origins Laboratory, Inc.



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11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

GW04

8/26/2022 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208673-09 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2H2649	08/26/2022	08/31/2022	Ua
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	"	"	Ua
Benzene	1.17	1.00	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	Ua
Naphthalene	ND	2.00	"	"	"	"	"	Ua
Toluene	1.00	1.00	"	"	"	"	"	
Xylenes, total	ND	1.00	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	99.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

GW05

8/26/2022 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC

Y208673-10 (Water)

Anions by EPA 300.0

Chloride	199	6.70	20.0	mg/L	100	2319739	08/26/2022	09/21/2022	
Sulfate	201	13.3	40.0	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	2.79		2.00	ug/L	1	B2H2649	08/26/2022	08/31/2022	
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	Ua
Benzene	35.0		1.00	"	"	"	"	"	
Ethylbenzene	1.49		1.00	"	"	"	"	"	
Naphthalene	ND		2.00	"	"	"	"	"	Ua
Toluene	15.9		1.00	"	"	"	"	"	
Xylenes, total	ND		1.00	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	98.4 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.9 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

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Ensolum
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

Native-BG01@4

8/26/2022 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208673-11 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2H3001	08/30/2022	08/31/2022
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Metals by Saturated Paste by EPA 6010

Calcium	ND	4.99	meq/L	100	[CALC]	08/30/2022	09/01/2022
Magnesium	ND	8.23	"	"	"	"	"
Sodium	ND	4.35	"	"	"	"	"

pH in Soil by 9045D

pH	8.22		pH Units	1	B2H3003	08/30/2022	08/31/2022
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SAR by 20B Saturated Paste

SAR	2.92		SAR	1	B2H3002	08/30/2022	09/01/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.545	0.00500	mmhos/cm	1	B2H3003	08/30/2022	08/31/2022
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Table 915 metals by EPA 6020B

Arsenic	0.673	0.0820	mg/kg	5	B2I0609	09/06/2022	09/07/2022
Barium	22.3	8.20	"	"	"	"	"
Cadmium	ND	0.0820	"	"	"	"	"

Ua

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

Native-BG01@4**8/26/2022 11:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208673-11 (Soil)**Table 915 metals by EPA 6020B**

Copper	ND		8.20	mg/kg	5	B210609	09/06/2022	09/07/2022	Ua
Lead	ND		8.20	"	"	"	"	"	Ua
Nickel	ND		8.20	"	"	"	"	"	Ua
Selenium	ND		0.0820	"	"	"	"	"	Ua
Silver	ND		0.0820	"	"	"	"	"	Ua
Zinc	ND		82.0	"	"	"	"	"	Ua

Total Metals by 7196A

Chromium, Hexavalent	ND	0.253	0.52	mg/Kg	1	L635795	08/26/2022	09/06/2022	
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Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

Native-BG02@4

8/26/2022 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208673-12 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0988	mg/L	1	B2H3001	08/30/2022	08/31/2022
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Metals by Saturated Paste by EPA 6010

Calcium	ND	4.99	meq/L	100	[CALC]	08/30/2022	09/01/2022
Magnesium	ND	8.23	"	"	"	"	"
Sodium	5.21	4.35	"	"	"	"	"

pH in Soil by 9045D

pH	8.21	pH Units	1	B2H3003	08/30/2022	08/31/2022
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SAR by 20B Saturated Paste

SAR	3.90	SAR	1	B2H3002	08/30/2022	09/01/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.05	0.00500	mmhos/cm	1	B2H3003	08/30/2022	08/31/2022
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Table 915 metals by EPA 6020B

Arsenic	0.929	0.0981	mg/kg	5	B2I0609	09/06/2022	09/07/2022
Barium	32.9	9.81	"	"	"	"	"
Cadmium	ND	0.0981	"	"	"	"	" Ua

Origins Laboratory, Inc.



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Ensolum
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

Native-BG02@4

8/26/2022 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208673-12 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.81	mg/kg	5	B210609	09/06/2022	09/07/2022	Ua
Lead	ND	9.81	"	"	"	"	"	Ua
Nickel	ND	9.81	"	"	"	"	"	Ua
Selenium	ND	0.0981	"	"	"	"	"	Ua
Silver	ND	0.0981	"	"	"	"	"	Ua
Zinc	ND	98.1	"	"	"	"	"	Ua

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L635795	08/26/2022	09/06/2022
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Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

Native-BG03@4

8/26/2022 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208673-13 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0992	mg/L	1	B2H3001	08/30/2022	08/31/2022
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Metals by Saturated Paste by EPA 6010

Calcium	ND	4.99	meq/L	100	[CALC]	08/30/2022	09/01/2022
Magnesium	ND	8.23	"	"	"	"	"
Sodium	ND	4.35	"	"	"	"	"

pH in Soil by 9045D

pH	8.16	pH Units	1	B2H3003	08/30/2022	08/31/2022
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SAR by 20B Saturated Paste

SAR	2.87	SAR	1	B2H3002	08/30/2022	09/01/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.447	0.00500	mmhos/cm	1	B2H3003	08/30/2022	08/31/2022
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Table 915 metals by EPA 6020B

Arsenic	0.281	0.0853	mg/kg	5	B2I0609	09/06/2022	09/07/2022	
Barium	ND	8.53	"	"	"	"	"	Ua
Cadmium	ND	0.0853	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

Native-BG03@4

8/26/2022 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y208673-13 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.53	mg/kg	5	B210609	09/06/2022	09/07/2022	Ua
Lead	ND		8.53	"	"	"	"	"	Ua
Nickel	ND		8.53	"	"	"	"	"	Ua
Selenium	ND		0.0853	"	"	"	"	"	Ua
Silver	ND		0.0853	"	"	"	"	"	Ua
Zinc	ND		85.3	"	"	"	"	"	Ua

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.51	mg/Kg	1	L635795	08/26/2022	09/06/2022	
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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417156

Project: KMG - Waddle 24-10J7

GW-BG01

8/26/2022 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y208673-14 (Water)

Anions by IC 300.0

Chloride	198		31.2	mg/L	125	B2H3117	08/31/2022	08/31/2022	
Sulfate	203		31.2	"	"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	816		5.00	"	1	B2H3115	08/31/2022	08/31/2022	
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Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

GW-BG02

8/26/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208673-15 (Water)

Anions by IC 300.0

Chloride	194		31.2	mg/L	125	B2H3117	08/31/2022	08/31/2022	
Sulfate	223		31.2	"	"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	856		5.00	"	1	B2H3115	08/31/2022	08/31/2022	
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11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

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 B2H2629 - EPA 3550B										
Blank (B2H2629-BLK1)					Prepared: 08/26/2022 Analyzed: 08/30/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	32		"	24.9		128	50-150			

Origins Laboratory, Inc.



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11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

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 B2H2629 - EPA 3550B

LCS (B2H2629-BS1)

Prepared: 08/26/2022 Analyzed: 08/30/2022

Diesel (C10-C28)	553	25.0	mg/kg	500		111	70-130			
Residual Range Organics (C28-C40)	630	100	"	500		126	70-130			
Surrogate: o-Terphenyl	29		"	24.9		118	50-150			

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

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 B2H2629 - EPA 3550B

Matrix Spike (B2H2629-MS1)		Source: Y208652-01			Prepared: 08/26/2022 Analyzed: 08/30/2022					
Diesel (C10-C28)	650	25.0	mg/kg	500	43.3	121	70-130			
Residual Range Organics (C28-C40)	735	100	"	500	78.1	131	70-130			QM-07
Surrogate: o-Terphenyl	37		"	24.9		148	50-150			

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

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 B2H2629 - EPA 3550B										
Matrix Spike Dup (B2H2629-MSD1)		Source: Y208652-01			Prepared: 08/26/2022 Analyzed: 08/30/2022					
Diesel (C10-C28)	649	25.0	mg/kg	500	43.3	121	70-130	0.0973	35	
Residual Range Organics (C28-C40)	740	100	"	500	78.1	132	70-130	0.743	35	QM-07
Surrogate: o-Terphenyl	38		"	24.9		152	50-150			QM-07

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

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 B2H2630 - EPA 5030 (soil)										
Blank (B2H2630-BLK1)					Prepared: 08/26/2022 Analyzed: 08/26/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.6	70-130			

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11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

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 B2H2630 - EPA 5030 (soil)

LCS (B2H2630-BS1)

Prepared: 08/26/2022 Analyzed: 08/26/2022

1,2,4-Trimethylbenzene	0.0969	0.00200	mg/kg	0.100		96.9	70-130			
1,3,5-Trimethylbenzene	0.0970	0.00200	"	0.100		97.0	70-130			
Benzene	0.0932	0.00200	"	0.100		93.2	70-130			
Ethylbenzene	0.0964	0.00200	"	0.100		96.4	70-130			
Naphthalene	0.101	0.00380	"	0.100		101	70-130			
Toluene	0.0949	0.00200	"	0.100		94.9	70-130			
o-Xylene	0.0955	0.00200	"	0.100		95.5	70-130			
m,p-Xylene	0.215	0.00400	"	0.200		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.4	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 B2H2630 - EPA 5030 (soil)

Matrix Spike (B2H2630-MS1)		Source: Y208666-01			Prepared: 08/26/2022 Analyzed: 08/26/2022					
1,2,4-Trimethylbenzene	0.0791	0.00200	mg/kg	0.100	ND	79.1	70-130			
1,3,5-Trimethylbenzene	0.0797	0.00200	"	0.100	ND	79.7	70-130			
Benzene	0.0821	0.00200	"	0.100	ND	82.1	70-130			
Ethylbenzene	0.0801	0.00200	"	0.100	ND	80.1	70-130			
Naphthalene	0.0990	0.00380	"	0.100	ND	99.0	70-130			
Toluene	0.0829	0.00200	"	0.100	ND	82.9	70-130			
o-Xylene	0.0798	0.00200	"	0.100	ND	79.8	70-130			
m,p-Xylene	0.176	0.00400	"	0.200	ND	88.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.3	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2H2630 - EPA 5030 (soil)										
Matrix Spike Dup (B2H2630-MSD1)			Source: Y208666-01		Prepared: 08/26/2022 Analyzed: 08/26/2022					
1,2,4-Trimethylbenzene	0.0840	0.00200	mg/kg	0.100	ND	84.0	70-130	5.98	20	
1,3,5-Trimethylbenzene	0.0846	0.00200	"	0.100	ND	84.6	70-130	5.99	20	
Benzene	0.0863	0.00200	"	0.100	ND	86.3	70-130	4.96	20	
Ethylbenzene	0.0863	0.00200	"	0.100	ND	86.3	70-130	7.43	20	
Naphthalene	0.101	0.00380	"	0.100	ND	101	70-130	2.28	20	
Toluene	0.0839	0.00200	"	0.100	ND	83.9	70-130	1.25	20	
o-Xylene	0.0840	0.00200	"	0.100	ND	84.0	70-130	5.08	20	
m,p-Xylene	0.190	0.00400	"	0.200	ND	94.9	70-130	7.32	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.8	70-130			

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Project: KMG - Waddle 24-10J7

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 B2H2649 - EPA 5030B (Water)										
Blank (B2H2649-BLK1)					Prepared: 08/26/2022 Analyzed: 08/31/2022					
1,2,4-Trimethylbenzene	ND	2.00	ug/L							Ua
1,3,5-Trimethylbenzene	ND	2.00	"							Ua
Benzene	ND	1.00	"							Ua
Ethylbenzene	ND	1.00	"							Ua
Naphthalene	ND	2.00	"							Ua
Toluene	ND	1.00	"							Ua
Xylenes, total	ND	1.00	"							Ua
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.6	70-130			
Surrogate: Toluene-d8	59		"	62.5		95.0	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
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2H2649 - EPA 5030B (Water)										
LCS (B2H2649-BS1)					Prepared: 08/26/2022 Analyzed: 08/31/2022					
1,2,4-Trimethylbenzene	52.2	2.00	ug/L	50.0		104	70-130			
1,3,5-Trimethylbenzene	50.4	2.00	"	50.0		101	70-130			
Benzene	48.8	1.00	"	50.0		97.6	70-130			
Ethylbenzene	50.2	1.00	"	50.0		100	70-130			
m,p-Xylene	113	2.00	"	100		113	70-130			
Naphthalene	48.2	2.00	"	50.0		96.5	70-130			
o-Xylene	52.8	1.00	"	50.0		106	70-130			
Toluene	50.4	1.00	"	50.0		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.7	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	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 B2H2649 - EPA 5030B (Water)

Matrix Spike (B2H2649-MS1)		Source: Y208665-07			Prepared: 08/26/2022 Analyzed: 08/31/2022					
1,2,4-Trimethylbenzene	53.3	2.00	ug/L	50.0	ND	107	70-130			
1,3,5-Trimethylbenzene	51.6	2.00	"	50.0	ND	103	70-130			
Benzene	49.0	1.00	"	50.0	ND	97.9	70-130			
Ethylbenzene	49.9	1.00	"	50.0	ND	99.8	70-130			
m,p-Xylene	114	2.00	"	100	ND	114	70-130			
Naphthalene	43.2	2.00	"	50.0	0.410	85.5	70-130			
o-Xylene	52.2	1.00	"	50.0	ND	104	70-130			
Toluene	51.4	1.00	"	50.0	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		93.9	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 B2H2649 - EPA 5030B (Water)										
Matrix Spike Dup (B2H2649-MSD1)			Source: Y208665-07		Prepared: 08/26/2022 Analyzed: 08/31/2022					
1,2,4-Trimethylbenzene	57.6	2.00	ug/L	50.0	ND	115	70-130	7.76	20	
1,3,5-Trimethylbenzene	56.9	2.00	"	50.0	ND	114	70-130	9.71	20	
Benzene	52.4	1.00	"	50.0	ND	105	70-130	6.67	20	
Ethylbenzene	56.0	1.00	"	50.0	ND	112	70-130	11.5	20	
m,p-Xylene	128	2.00	"	100	ND	128	70-130	11.0	20	
Naphthalene	47.4	2.00	"	50.0	0.410	93.9	70-130	9.32	20	
o-Xylene	57.0	1.00	"	50.0	ND	114	70-130	8.85	20	
Toluene	54.7	1.00	"	50.0	ND	109	70-130	6.19	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.7	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2H2908 - EPA 5030B (Water)										
Blank (B2H2908-BLK1)					Prepared: 08/29/2022 Analyzed: 08/29/2022					
1,2,4-Trimethylbenzene	ND	2.00	ug/L							Ua
1,3,5-Trimethylbenzene	ND	2.00	"							Ua
Benzene	ND	1.00	"							Ua
Ethylbenzene	ND	1.00	"							Ua
Naphthalene	ND	2.00	"							Ua
Toluene	ND	1.00	"							Ua
Xylenes, total	ND	1.00	"							Ua
Surrogate: 1,2-Dichloroethane-d4	72		"	62.5		115	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.9	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
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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 B2H2908 - EPA 5030B (Water)

LCS (B2H2908-BS1)

Prepared: 08/29/2022 Analyzed: 08/29/2022

1,2,4-Trimethylbenzene	52.1	2.00	ug/L	50.0		104	70-130			
1,3,5-Trimethylbenzene	51.9	2.00	"	50.0		104	70-130			
Benzene	41.1	1.00	"	50.0		82.2	70-130			
Ethylbenzene	50.6	1.00	"	50.0		101	70-130			
m,p-Xylene	112	2.00	"	100		112	70-130			
Naphthalene	57.8	2.00	"	50.0		116	70-130			
o-Xylene	50.6	1.00	"	50.0		101	70-130			
Toluene	40.5	1.00	"	50.0		81.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	72		"	62.5		116	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	70		"	62.5		112	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 B2H2908 - EPA 5030B (Water)

Matrix Spike (B2H2908-MS1)		Source: Y208673-06			Prepared: 08/29/2022 Analyzed: 08/29/2022					
1,2,4-Trimethylbenzene	43.1	2.00	ug/L	50.0	0.310	85.5	70-130			
1,3,5-Trimethylbenzene	43.7	2.00	"	50.0	0.120	87.1	70-130			
Benzene	48.5	1.00	"	50.0	0.320	96.3	70-130			
Ethylbenzene	42.9	1.00	"	50.0	0.170	85.5	70-130			
m,p-Xylene	96.0	2.00	"	100	0.550	95.5	70-130			
Naphthalene	44.3	2.00	"	50.0	0.540	87.5	70-130			
o-Xylene	42.3	1.00	"	50.0	0.330	83.9	70-130			
Toluene	49.1	1.00	"	50.0	1.75	94.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	56		"	62.5		90.1	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 B2H2908 - EPA 5030B (Water)										
Matrix Spike Dup (B2H2908-MSD1)		Source: Y208673-06			Prepared: 08/29/2022 Analyzed: 08/29/2022					
1,2,4-Trimethylbenzene	45.2	2.00	ug/L	50.0	0.310	89.8	70-130	4.78	20	
1,3,5-Trimethylbenzene	46.0	2.00	"	50.0	0.120	91.8	70-130	5.17	20	
Benzene	47.8	1.00	"	50.0	0.320	94.9	70-130	1.48	20	
Ethylbenzene	44.9	1.00	"	50.0	0.170	89.4	70-130	4.49	20	
m,p-Xylene	101	2.00	"	100	0.550	100	70-130	4.72	20	
Naphthalene	48.8	2.00	"	50.0	0.540	96.4	70-130	9.61	20	
o-Xylene	44.9	1.00	"	50.0	0.330	89.2	70-130	6.15	20	
Toluene	50.3	1.00	"	50.0	1.75	97.2	70-130	2.43	20	
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		105	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.5	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 B2H3013 - EPA 3550B										
Blank (B2H3013-BLK1)					Prepared: 08/30/2022 Analyzed: 08/31/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	25		"	24.9		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 B2H3013 - EPA 3550B

LCS (B2H3013-BS1)

Prepared: 08/30/2022 Analyzed: 08/31/2022

Diesel (C10-C28)	518	25.0	mg/kg	500		104	70-130			
Residual Range Organics (C28-C40)	460	100	"	500		92.1	70-130			
Surrogate: o-Terphenyl	27		"	24.9		110	50-150			

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Project: KMG - Waddle 24-10J7

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 B2H3013 - EPA 3550B

Matrix Spike (B2H3013-MS1)		Source: Y208644-01			Prepared: 08/30/2022 Analyzed: 08/31/2022					
Diesel (C10-C28)	496	25.0	mg/kg	500	ND	99.3	70-130			
Residual Range Organics (C28-C40)	471	100	"	500	36.8	86.8	70-130			
Surrogate: o-Terphenyl	35		"	24.9		139	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 B2H3013 - EPA 3550B

Matrix Spike Dup (B2H3013-MSD1)		Source: Y208644-01			Prepared: 08/30/2022 Analyzed: 08/31/2022					
Diesel (C10-C28)	453	25.0	mg/kg	500	ND	90.6	70-130	9.12	35	
Residual Range Organics (C28-C40)	412	100	"	500	36.8	75.0	70-130	13.4	35	
Surrogate: o-Terphenyl	20		"	24.9		79.8	50-150			

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Project: KMG - Waddle 24-10J7

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 B2H3101 - EPA 5030 (soil)										
Blank (B2H3101-BLK1)					Prepared: 08/31/2022 Analyzed: 08/31/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.6	70-130			

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

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 B2H3101 - EPA 5030 (soil)										
LCS (B2H3101-BS1)					Prepared: 08/31/2022 Analyzed: 08/31/2022					
1,2,4-Trimethylbenzene	0.0952	0.00200	mg/kg	0.100		95.2	70-130			
1,3,5-Trimethylbenzene	0.0970	0.00200	"	0.100		97.0	70-130			
Benzene	0.0941	0.00200	"	0.100		94.1	70-130			
Ethylbenzene	0.0976	0.00200	"	0.100		97.6	70-130			
Naphthalene	0.0985	0.00380	"	0.100		98.5	70-130			
Toluene	0.0978	0.00200	"	0.100		97.8	70-130			
o-Xylene	0.0971	0.00200	"	0.100		97.1	70-130			
m,p-Xylene	0.205	0.00400	"	0.200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

Origins Laboratory, Inc.



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Jeremy Espinoza
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Project: KMG - Waddle 24-10J7

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 B2H3101 - EPA 5030 (soil)

Matrix Spike (B2H3101-MS1)		Source: Y208668-05			Prepared: 08/31/2022 Analyzed: 08/31/2022					
1,2,4-Trimethylbenzene	0.0729	0.00200	mg/kg	0.100	ND	72.9	70-130			
1,3,5-Trimethylbenzene	0.0776	0.00200	"	0.100	ND	77.6	70-130			
Benzene	0.0957	0.00200	"	0.100	ND	95.7	70-130			
Ethylbenzene	0.0921	0.00200	"	0.100	ND	92.1	70-130			
Naphthalene	0.0765	0.00380	"	0.100	ND	76.5	70-130			
Toluene	0.0982	0.00200	"	0.100	ND	98.2	70-130			
o-Xylene	0.0908	0.00200	"	0.100	ND	90.8	70-130			
m,p-Xylene	0.189	0.00400	"	0.200	ND	94.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

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 B2H3101 - EPA 5030 (soil)										
Matrix Spike Dup (B2H3101-MSD1)		Source: Y208668-05			Prepared: 08/31/2022 Analyzed: 08/31/2022					
1,2,4-Trimethylbenzene	0.0433	0.00200	mg/kg	0.100	ND	43.3	70-130	50.9	20	QM-07
1,3,5-Trimethylbenzene	0.0451	0.00200	"	0.100	ND	45.1	70-130	53.0	20	QM-07
Benzene	0.0878	0.00200	"	0.100	ND	87.8	70-130	8.59	20	
Ethylbenzene	0.0690	0.00200	"	0.100	ND	69.0	70-130	28.7	20	QM-07
Naphthalene	0.0476	0.00380	"	0.100	ND	47.6	70-130	46.7	20	QM-07
Toluene	0.0786	0.00200	"	0.100	ND	78.6	70-130	22.2	20	QM-07
o-Xylene	0.0664	0.00200	"	0.100	ND	66.4	70-130	31.0	20	QM-07
m,p-Xylene	0.139	0.00400	"	0.200	ND	69.6	70-130	30.4	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

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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***** DEFAULT GENERAL METHOD *** - 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 B2I0609 - Default Prep Metals

Blank (B2I0609-BLK1)

Prepared: 09/06/2022 Analyzed: 09/07/2022

Arsenic	ND	0.000100	mg/kg							Ua
Barium	ND	0.0100	"							Ua
Cadmium	ND	0.000100	"							Ua
Copper	ND	0.0100	"							Ua
Lead	ND	0.0100	"							Ua
Nickel	ND	0.0100	"							Ua
Selenium	ND	0.000100	"							Ua
Silver	ND	0.000100	"							Ua
Zinc	ND	0.100	"							Ua

LCS (B2I0609-BS1)

Prepared: 09/06/2022 Analyzed: 09/07/2022

Arsenic	0.0463	0.000100	mg/kg	0.0500		92.6	80-120
Barium	4.83	0.0100	"	5.00		96.7	80-120
Cadmium	0.0511	0.000100	"	0.0500		102	80-120
Copper	0.511	0.0100	"	0.500		102	80-120
Lead	0.0511	0.0100	"	0.0500		102	80-120
Nickel	0.0504	0.0100	"	0.0500		101	80-120
Selenium	0.0475	0.000100	"	0.0500		95.0	80-120
Silver	0.0538	0.000100	"	0.0500		108	80-120
Zinc	0.508	0.100	"	0.500		102	80-120

Matrix Spike (B2I0609-MS1)

Source: Y208237-01

Prepared: 09/06/2022 Analyzed: 09/07/2022

Origins Laboratory, Inc.



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11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

*** DEFAULT GENERAL METHOD *** - 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 B2I0609 - Default Prep Metals

Matrix Spike (B2I0609-MS1)		Source: Y208237-01			Prepared: 09/06/2022 Analyzed: 09/07/2022					
Arsenic	10.4	0.0835	mg/kg	8.35	2.53	93.7	75-125			
Barium	979	8.35	"	835	191	94.4	75-125			
Cadmium	8.51	0.0835	"	8.35	0.182	99.7	75-125			
Copper	86.1	8.35	"	83.5	12.0	88.8	75-125			
Lead	17.7	8.35	"	8.35	8.86	106	75-125			
Nickel	14.3	8.35	"	8.35	6.98	87.9	75-125			
Selenium	7.83	0.0835	"	8.35	0.103	92.6	75-125			
Silver	8.67	0.0835	"	8.35	0.0163	104	75-125			
Zinc	118	83.5	"	83.5	42.7	90.7	75-125			
Matrix Spike Dup (B2I0609-MSD1)		Source: Y208237-01			Prepared: 09/06/2022 Analyzed: 09/07/2022					
Arsenic	10.7	0.0914	mg/kg	9.14	2.53	89.8	75-125	3.66	20	
Barium	1040	9.14	"	914	191	92.4	75-125	5.66	20	
Cadmium	8.88	0.0914	"	9.14	0.182	95.2	75-125	4.32	20	
Copper	92.2	9.14	"	91.4	12.0	87.8	75-125	6.90	20	
Lead	15.2	9.14	"	9.14	8.86	69.9	75-125	15.0	20	QM-07
Nickel	15.1	9.14	"	9.14	6.98	89.2	75-125	5.53	20	
Selenium	8.76	0.0914	"	9.14	0.103	94.7	75-125	11.2	20	
Silver	9.08	0.0914	"	9.14	0.0163	99.1	75-125	4.55	20	
Zinc	125	91.4	"	91.4	42.7	90.2	75-125	5.52	20	

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

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 B2H2902 - Default Prep Metals

Blank (B2H2902-BLK1)

Prepared: 08/29/2022 Analyzed: 08/31/2022

SAR	0.00		SAR
Calcium PPM	ND	10.0	mg/L
Magnesium PPM	ND	10.0	"
Sodium PPM	ND	10.0	"

Duplicate (B2H2902-DUP1)

Source: Y208663-06

Prepared: 08/29/2022 Analyzed: 08/31/2022

SAR	0.00		SAR	0.00		200
Calcium PPM	45.9	10.0	mg/L	40.7	12.0	50
Magnesium PPM	9.56	10.0	"	8.43	12.5	50
Sodium PPM	75.6	10.0	"	70.8	6.62	50

Batch B2H3001 - Default Prep Metals

Blank (B2H3001-BLK1)

Prepared: 08/30/2022 Analyzed: 08/31/2022

Boron	ND	0.100	mg/L
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Duplicate (B2H3001-DUP1)

Source: Y208673-01

Prepared: 08/30/2022 Analyzed: 08/31/2022

Boron	0.0239	0.0989	mg/L	0.0276	14.1	50
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Batch B2H3002 - Default Prep Metals

Blank (B2H3002-BLK1)

Prepared: 08/30/2022 Analyzed: 09/01/2022

Calcium PPM	ND	10.0	mg/L
SAR	0.00		SAR
Magnesium PPM	ND	10.0	mg/L
Sodium PPM	ND	10.0	"

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

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 B2H3002 - Default Prep Metals

Duplicate (B2H3002-DUP1)			Source: Y208673-05		Prepared: 08/30/2022 Analyzed: 09/01/2022					
SAR	0.00		SAR		0.939			200	200	
Calcium PPM	41.5	10.0	mg/L		40.7			1.89	50	
Magnesium PPM	8.06	10.0	"		7.84			2.78	50	
Sodium PPM	26.6	10.0	"		25.0			6.30	50	

Batch B2H3102 - Default Prep Metals

Blank (B2H3102-BLK1)			Prepared: 08/31/2022 Analyzed: 09/01/2022							
Calcium PPM	ND	10.0	mg/L							
SAR	0.00		SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							
Duplicate (B2H3102-DUP1)			Source: Y208673-03		Prepared: 08/31/2022 Analyzed: 09/01/2022					
Calcium PPM	22.2	10.0	mg/L		27.6			21.5	50	
SAR	0.00		SAR		2.92			200	200	
Magnesium PPM	5.63	10.0	mg/L		6.95			21.0	50	
Sodium PPM	55.3	10.0	"		66.2			18.0	50	

Batch B2H3105 - Default Prep Metals

Blank (B2H3105-BLK1)			Prepared: 08/31/2022 Analyzed: 09/01/2022							
Boron	ND	0.100	mg/L							
Duplicate (B2H3105-DUP1)			Source: Y208673-03		Prepared: 08/31/2022 Analyzed: 09/01/2022					
Boron	0.355	0.0989	mg/L		0.206			53.0	50	QR-DUP

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2H3115 - NO PREP										
Blank (B2H3115-BLK1)					Prepared: 08/31/2022 Analyzed: 08/31/2022					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B2H3115-BS1)					Prepared: 08/31/2022 Analyzed: 08/31/2022					
Total Dissolved Solids	967	5.00	mg/L	1000		96.7	90-110			
Duplicate (B2H3115-DUP1)					Source: Y208665-08 Prepared: 08/31/2022 Analyzed: 08/31/2022					
Total Dissolved Solids	672	5.00	mg/L		679			1.04	10	
Batch B2H3117 - Filter .45um non acidified										
Blank (B2H3117-BLK1)					Prepared: 08/31/2022 Analyzed: 08/31/2022					
Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							
LCS (B2H3117-BS1)					Prepared: 08/31/2022 Analyzed: 08/31/2022					
Chloride	3.90	0.250	mg/L	4.00		97.4	90-110			
Sulfate	4.03	0.250	"	4.00		101	90-110			
Matrix Spike (B2H3117-MS1)					Source: Y208720-01 Prepared: 08/31/2022 Analyzed: 08/31/2022					
Chloride	528		mg/L	500	26.0	100	90-110			
Sulfate	701		"	500	189	102	90-110			
Matrix Spike Dup (B2H3117-MSD1)					Source: Y208720-01 Prepared: 08/31/2022 Analyzed: 08/31/2022					
Chloride	530		mg/L	500	26.0	101	90-110	0.276	5	
Sulfate	708		"	500	189	104	90-110	1.10	5	

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

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 B2H2907 - NO PREP

Blank (B2H2907-BLK1)

Prepared: 08/29/2022 Analyzed: 08/31/2022

Specific Conductance (EC) ND 0.00500 mmhos/cm
pH 0.00 pH Units

Duplicate (B2H2907-DUP1)

Source: Y208663-06

Prepared: 08/29/2022 Analyzed: 08/31/2022

Specific Conductance (EC) 0.826 0.00500 mmhos/cm 0.814 1.56 25
pH 8.14 pH Units 8.20 0.734 25

Batch B2H3003 - NO PREP

Blank (B2H3003-BLK1)

Prepared: 08/30/2022 Analyzed: 08/31/2022

pH 0.00 pH Units
Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B2H3003-DUP1)

Source: Y208673-05

Prepared: 08/30/2022 Analyzed: 08/31/2022

pH 8.17 pH Units 8.14 0.368 25
Specific Conductance (EC) 0.429 0.00500 mmhos/cm 0.414 3.56 25

Batch B2H3108 - NO PREP

Blank (B2H3108-BLK1)

Prepared: 08/31/2022 Analyzed: 09/01/2022

Specific Conductance (EC) ND 0.00500 mmhos/cm
pH 0.00 pH Units

Duplicate (B2H3108-DUP1)

Source: Y208673-03

Prepared: 08/31/2022 Analyzed: 09/01/2022

pH 8.11 pH Units 7.93 2.24 25
Specific Conductance (EC) 0.429 0.00500 mmhos/cm 0.520 19.1 25

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

Anions by EPA 300.0 - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2319739 -										
BLANK (1205197803-BLK)					Prepared: Analyzed: 09/21/2022					
Chloride	ND	0.200	mg/L				-			U
Sulfate	ND	0.400	"				-			U
LCS (1205197804-BKS)					Prepared: Analyzed: 09/21/2022					
Chloride	4.75	0.200	mg/L	5.00		95	90-110			
Sulfate	9.73	0.400	"	10.0		97.3	90-110			
DUP (1205197805 D)					Source: 593969007 Prepared: Analyzed: 09/22/2022					
Chloride	16.4	0.400	mg/L		16.5		0-20	0.165	20	
Sulfate	18.2	0.800	"		18.2		0-20	0.0782	20	
PS (1205197806 S)					Source: 593969007 Prepared: Analyzed: 09/22/2022					
Sulfate	39.5	0.800	mg/L	10.0		107	90-110			
Chloride	28.2	0.400	"	5.00		117	90-110			

Origins Laboratory, Inc.



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11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L635566 - 3550B

MSD (L 98741-MSD-L635566)		Source: 98741			Prepared: 09/02/2022 Analyzed: 09/02/2022					
Acenaphthene	0.102	0.00067	mg/Kg	0.164	0.00315	60.2	30-130	1.9	30	
Benzo(a)pyrene	0.127	0.00067	"	0.164	<0.000468	77.4	30-130	0.7	30	
Benzo(b)fluoranthene	0.088	0.00067	"	0.164	<0.000585	53.6	30-130	13.7	30	
1-Methylnaphthalene	0.106	0.00067	"	0.164	0.00729	60.1	30-130	1.9	30	
Benzo(a)anthracene	0.124	0.00067	"	0.164	<0.000493	75.6	30-130	0.8	30	
2-Methylnaphthalene	0.106	0.00067	"	0.164	0.0106	58.1	30-130	4.8	30	
Benzo(k)fluoranthene	0.136	0.00067	"	0.164	<0.000437	82.9	30-130	6.8	30	
Anthracene	0.116	0.00067	"	0.164	0.000649	70.3	30-130	1.7	30	
Pyrene	0.123	0.00067	"	0.164	0.00197	73.7	30-130	0	30	
Indeno(1,2,3-cd)pyrene	0.0921	0.00067	"	0.164	<0.000627	56.1	30-130	0.7	30	
Fluorene	0.104	0.00067	"	0.164	0.00256	61.8	30-130	0	30	
Fluoranthene	0.119	0.00067	"	0.164	0.000417	72.3	30-130	0.8	30	
Dibenz(a,h)anthracene	0.147	0.00067	"	0.164	<0.000614	89.6	30-130	0	30	
Chrysene	0.124	0.00067	"	0.164	0.000653	75.2	30-130	2.4	30	
Surrogate: 4-Terphenyl-d14	79.8		"	0.328	232	79.8	33-122			
Surrogate: 2-Fluorobiphenyl	57.3		"	0.328	171	57.3	33-115			
Surrogate: Nitrobenzene-d5	62.8		"	0.328	185	62.8	29-110			

MS (L 98741-MS-L635566)		Source: 98741			Prepared: 09/02/2022 Analyzed: 09/02/2022					
Chrysene	0.121	0.00067	mg/Kg	0.166	0.000653	72.4	30-130			
Benzo(a)pyrene	0.126	0.00067	"	0.166	<0.000468	75.9	30-130			
Fluorene	0.104	0.00067	"	0.166	0.00256	61.1	30-130			
Pyrene	0.123	0.00067	"	0.166	0.00197	72.9	30-130			
Dibenz(a,h)anthracene	0.147	0.00067	"	0.166	<0.000614	88.5	30-130			
Benzo(k)fluoranthene	0.127	0.00067	"	0.166	<0.000437	76.5	30-130			
Benzo(b)fluoranthene	0.101	0.00067	"	0.166	<0.000585	60.8	30-130			
Indeno(1,2,3-cd)pyrene	0.0914	0.00067	"	0.166	<0.000627	55	30-130			

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L635566 - 3550B

MS (L 98741-MS-L635566)		Source: 98741			Prepared: 09/02/2022 Analyzed: 09/02/2022					
1-Methylnaphthalene	0.104	0.00067	mg/Kg	0.166	0.00729	58.2	30-130			
Benzo(a)anthracene	0.123	0.00067	"	0.166	<0.000493	74	30-130			
Anthracene	0.114	0.00067	"	0.166	0.000649	68.2	30-130			
Acenaphthene	0.1	0.00067	"	0.166	0.00315	58.3	30-130			
2-Methylnaphthalene	0.101	0.00067	"	0.166	0.0106	54.4	30-130			
Fluoranthene	0.118	0.00067	"	0.166	0.000417	70.8	30-130			
Surrogate: Nitrobenzene-d5	58.4		"	0.332	185	58.4	29-110			
Surrogate: 4-Terphenyl-d14	74.6		"	0.332	232	74.6	33-122			
Surrogate: 2-Fluorobiphenyl	52.1		"	0.332	171	52.1	33-115			

LCS (LCS-L635566)		Prepared: 09/02/2022 Analyzed: 09/02/2022								
Benzo(k)fluoranthene	0.142	0.00067	mg/Kg	0.167		85	30-130			
Chrysene	0.125	0.00067	"	0.167		74.8	30-130			
Dibenz(a,h)anthracene	0.159	0.00067	"	0.167		95.2	30-130			
Fluoranthene	0.117	0.00067	"	0.167		70	30-130			
Fluorene	0.103	0.00067	"	0.167		61.6	30-130			
2-Methylnaphthalene	0.0938	0.00067	"	0.167		56.1	30-130			
Indeno(1,2,3-cd)pyrene	0.0876	0.00067	"	0.167		52.4	30-130			
Benzo(b)fluoranthene	0.102	0.00067	"	0.167		61	30-130			
Benzo(a)pyrene	0.132	0.00067	"	0.167		79	30-130			
Anthracene	0.115	0.00067	"	0.167		68.8	30-130			
1-Methylnaphthalene	0.0991	0.00067	"	0.167		59.3	30-130			
Acenaphthene	0.0976	0.00067	"	0.167		58.4	30-130			
Pyrene	0.119	0.00067	"	0.167		71.2	30-130			
Benzo(a)anthracene	0.127	0.00067	"	0.167		76	30-130			
Surrogate: 2-Fluorobiphenyl	61.5		"	0.333		61.5	33-115			
Surrogate: Nitrobenzene-d5	65.7		"	0.333		65.7	29-110			

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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 L635566 - 3550B

LCS (LCS-L635566)

Prepared: 09/02/2022 Analyzed: 09/02/2022

Surrogate: 4-Terphenyl-d14	83.1		mg/Kg	0.333		83.1	33-122			
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LRB (LRB-L635566)

Prepared: 09/02/2022 Analyzed: 09/02/2022

Fluorene	ND	0.00067	mg/Kg				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	60.6		"	0.333		60.6	29-110			
Surrogate: 4-Terphenyl-d14	72.6		"	0.333		72.6	33-122			
Surrogate: 2-Fluorobiphenyl	57.3		"	0.333		57.3	33-115			

Batch L636065 - 3550B

MSD (L 99229-MSD-L636065)

Source: 99229

Prepared: 09/07/2022 Analyzed: 09/07/2022

Indeno(1,2,3-cd)pyrene	0.144	0.00067	mg/Kg	0.165	<0.000627	87.2	30-130	28.5	30	
Fluorene	0.1	0.00067	"	0.165	<0.000286	60.6	30-130	5.8	30	
Fluoranthene	0.11	0.00067	"	0.165	<0.000394	66.6	30-130	2.6	30	

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Project: KMG - Waddle 24-10J7

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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 L636065 - 3550B

MSD (L 99229-MSD-L636065)		Source: 99229			Prepared: 09/07/2022 Analyzed: 09/07/2022					
Dibenz(a,h)anthracene	0.152	0.00067	mg/Kg	0.165	<0.000614	92.1	30-130	29.4	30	
Chrysene	0.109	0.00067	"	0.165	<0.000624	66	30-130	5.3	30	
Benzo(k)fluoranthene	0.125	0.00067	"	0.165	<0.000437	75.7	30-130	11.8	30	
Benzo(b)fluoranthene	0.115	0.00067	"	0.165	<0.000585	69.6	30-130	0	30	
Benzo(a)pyrene	0.127	0.00067	"	0.165	<0.000468	76.9	30-130	1.5	30	
Benzo(a)anthracene	0.113	0.00067	"	0.165	<0.000493	68.4	30-130	1.7	30	
Anthracene	0.106	0.00067	"	0.165	<0.000334	64.2	30-130	3.7	30	
Acenaphthene	0.0946	0.00067	"	0.165	<0.000304	57.3	30-130	4.8	30	
Pyrene	0.11	0.00067	"	0.165	<0.000643	66.6	30-130	2.6	30	
2-Methylnaphthalene	0.0922	0.00067	"	0.165	<0.000645	55.8	30-130	6	30	
1-Methylnaphthalene	0.0916	0.00067	"	0.165	<0.000364	55.5	30-130	7.2	30	
Surrogate: Nitrobenzene-d5	56.9		"	0.33	152	56.9	29-110			
Surrogate: 2-Fluorobiphenyl	53.3		"	0.33	155	53.3	33-115			
Surrogate: 4-Terphenyl-d14	61.8		"	0.33	182	61.8	33-122			

MS (L 99229-MS-L636065)		Source: 99229			Prepared: 09/07/2022 Analyzed: 09/07/2022					
Benzo(k)fluoranthene	0.111	0.00067	mg/Kg	0.167	<0.000437	66.4	30-130			
Benzo(b)fluoranthene	0.115	0.00067	"	0.167	<0.000585	68.8	30-130			
Pyrene	0.113	0.00067	"	0.167	<0.000643	67.6	30-130			
Indeno(1,2,3-cd)pyrene	0.108	0.00067	"	0.167	<0.000627	64.6	30-130			
Fluorene	0.106	0.00067	"	0.167	<0.000286	63.4	30-130			
Fluoranthene	0.113	0.00067	"	0.167	<0.000394	67.6	30-130			
Benzo(a)pyrene	0.129	0.00067	"	0.167	<0.000468	77.2	30-130			
Chrysene	0.115	0.00067	"	0.167	<0.000624	68.8	30-130			
1-Methylnaphthalene	0.0985	0.00067	"	0.167	<0.000364	58.9	30-130			
Benzo(a)anthracene	0.111	0.00067	"	0.167	<0.000493	66.4	30-130			
Anthracene	0.11	0.00067	"	0.167	<0.000334	65.8	30-130			

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Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L636065 - 3550B										
MS (L 99229-MS-L636065)		Source: 99229			Prepared: 09/07/2022 Analyzed: 09/07/2022					
Acenaphthene	0.0993	0.00067	mg/Kg	0.167	<0.000304	59.4	30-130			
2-Methylnaphthalene	0.098	0.00067	"	0.167	<0.000645	58.6	30-130			
Dibenz(a,h)anthracene	0.113	0.00067	"	0.167	<0.000614	67.6	30-130			
Surrogate: Nitrobenzene-d5	57.9		"	0.333	152	57.9	29-110			
Surrogate: 4-Terphenyl-d14	65.7		"	0.333	182	65.7	33-122			
Surrogate: 2-Fluorobiphenyl	55.8		"	0.333	155	55.8	33-115			
LCS (LCS-L636065)		Prepared: 09/07/2022 Analyzed: 09/07/2022								
Fluorene	0.11	0.00067	mg/Kg	0.167		65.8	30-130			
Benzo(a)pyrene	0.133	0.00067	"	0.167		79.6	30-130			
Indeno(1,2,3-cd)pyrene	0.146	0.00067	"	0.167		87.4	30-130			
Fluoranthene	0.116	0.00067	"	0.167		69.4	30-130			
Dibenz(a,h)anthracene	0.152	0.00067	"	0.167		91	30-130			
Chrysene	0.12	0.00067	"	0.167		71.8	30-130			
Benzo(b)fluoranthene	0.123	0.00067	"	0.167		73.6	30-130			
Pyrene	0.117	0.00067	"	0.167		70	30-130			
Benzo(a)anthracene	0.113	0.00067	"	0.167		67.6	30-130			
Anthracene	0.113	0.00067	"	0.167		67.6	30-130			
Acenaphthene	0.104	0.00067	"	0.167		62.2	30-130			
2-Methylnaphthalene	0.102	0.00067	"	0.167		61	30-130			
1-Methylnaphthalene	0.102	0.00067	"	0.167		61	30-130			
Benzo(k)fluoranthene	0.125	0.00067	"	0.167		74.8	30-130			
Surrogate: Nitrobenzene-d5	67.5		"	0.333		67.5	29-110			
Surrogate: 4-Terphenyl-d14	70.8		"	0.333		70.8	33-122			
Surrogate: 2-Fluorobiphenyl	63.6		"	0.333		63.6	33-115			
LRB (LRB-L636065)		Prepared: 09/07/2022 Analyzed: 09/07/2022								

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Jeremy Espinoza
Project Number: 09A1417156
Project: KMG - Waddle 24-10J7

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L636065 - 3550B										
LRB (LRB-L636065)					Prepared: 09/07/2022 Analyzed: 09/07/2022					
1-Methylnaphthalene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	57		"	0.333	57		33-115			
Surrogate: Nitrobenzene-d5	55.8		"	0.333	55.8		29-110			
Surrogate: 4-Terphenyl-d14	65.4		"	0.333	65.4		33-122			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L635795 -										
DUP (L 98747-DUP)		Source: 98747			Prepared: Analyzed: 09/06/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 98747-MS)		Source: 98747			Prepared: Analyzed: 09/06/2022					
Chromium, Hexavalent	32.8	2.57	mg/Kg	41.2	< 0.244	80	75-125			
MSD (L 98747-MSD)		Source: 98747			Prepared: Analyzed: 09/06/2022					
Chromium, Hexavalent	551	50	mg/Kg	672	<24.4	82	75-125			
Batch L636286 -										
DUP (L 99243-DUP)		Source: 99243			Prepared: Analyzed: 09/08/2022					
Chromium, Hexavalent	ND	1	mg/Kg		<1.00	-		0	20	
MS (L 99243-MS)		Source: 99243			Prepared: Analyzed: 09/08/2022					
Chromium, Hexavalent	41.3	2.5	mg/Kg	39	< 0.488	106	75-125			
MSD (L 99243-MSD)		Source: 99243			Prepared: Analyzed: 09/08/2022					
Chromium, Hexavalent	581	50	mg/Kg	650	<24.4	89	75-125			
LCS (LCS)					Prepared: Analyzed: 09/08/2022					
Chromium, Hexavalent	7.47	0.5	mg/Kg	8		93	75-125			
LRB (LRB)					Prepared: Analyzed: 09/08/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Project: KMG - Waddle 24-10J7

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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.

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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