



Ensolum

April 14, 2025

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Palombo 23-4L Wellhead Project Number - 09A1417995

Attached are your analytical results for KMG - Palombo 23-4L Wellhead received by Origins Laboratory February 24, 2025. This project is associated with Origins project number E5B0599-01.

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
303.433.1322
projectmanager@originslab.com



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



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

Jeremy Espinoza
 Project Number: 09A1417995
 Project: KMG - Palombo 23-4L Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-RISER(23-4L)@4'	E5B0599-01	Soil	February 24, 2025 14:30	02/24/2025 16:56
WH-RISER(23-4L)@4'-V	E5B0599-02	Soil	February 24, 2025 14:30	02/24/2025 16:56

A Lead rerun was requested for WH-RISER(23-4L)@4'-V per Jeremy's email on 04/02/2025. No errors were found in the original data, all results are reported. JAB

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ORIGINS LABORATORY

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Jeremy Espinoza
 Project Number: 09A1417995
 Project: KMG - Palombo 23-4L Wellhead



ESB0374

Page 1 of 1

Client: Ensolium
 Address: _____

Project Manager: Sereny Espinoza
 Project Name: Palombo 23-4L Wellhead

Telephone Number: _____

Project Number: 09A1417995

Email Address: Kmg Team

Collected By: Elizabeth Zufflun
 Invoice Billing Info: MHA

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpiped | HCL = Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

Key: W=Water
SW=Surface Water
WW=Waste Water
L=Liquid

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis			Comments
							1st	2nd	3rd	
1	WH-ES-0123-417995-1	2-24-25	1430	3	UNP	X	X	X	Sample names changed	
2	WH-ES-0123-417995-2	2-24-25	1430	3	UNP	X	X	X	metals added per Jeremy's email on 3/10/25	
3	WH-ES-0123-417995-3									
4										
5										
6										
7										
8										
9										
10										

Temp Received- 34°C Received On Ice? Yes No

Turnaround Time
 SAME DAY 24 HR
 48 HR 72
 Standard

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Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: ESPOS99

Client: Ensolium

Client Project ID: Palombo

Checklist Completed by: JS / sm

Shipped Via: HD

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

Date/time completed: 2/5/24 / 125

Airbill #: N/A

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

Cooler Number/Temperature: 12.9 °C / _____ °C / _____ °C / _____ °C (Describe)

Thermometer ID: 1007

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"/>	
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) AE

Date/Time Reviewed 2/12/25

Origins Laboratory

Bynon

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Jeremy Espinoza
 Project Number: 09A1417995
 Project: KMG - Palombo 23-4L Wellhead

**WH-RISER(23-4L)@4'
 2/24/2025 2:30:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5B0599-01 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.409		0.0987	mg/L	1	B5B2508	02/25/2025	02/26/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	33.0		25.0	mg/kg	1	B5B2515	02/25/2025	02/26/2025	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	87.3 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B2445	02/24/2025	02/26/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	141 %			70-130		"	"	"	S-GC
Surrogate: Toluene-d8	96.3 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %			70-130		"	"	"	

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Jeremy Espinoza
Project Number: 09A1417995
Project: KMG - Palombo 23-4L Wellhead

**WH-RISER(23-4L)@4'
2/24/2025 2:30:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5B0599-01 (Soil) Origins Laboratory									
Metals by Saturated Paste by EPA 6010									
Calcium	2.26		0.499	meq/L	10	[CALC]	02/25/2025	02/26/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.16		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	8.24			pH Units	1	B5B2512	02/25/2025	02/26/2025	
SAR by 20B Saturated Paste									
SAR	2.58		0.0100	SAR	1	B5B2510	02/25/2025	02/26/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.767		0.00500	mmhos/cm	1	B5B2512	02/25/2025	02/26/2025	
Table 915 metals by EPA 6020B									
Arsenic	4.19		0.273	mg/kg	10	B5B2514	02/25/2025	02/26/2025	
Barium	185		9.42	"	"	"	"	"	
Cadmium	0.400		0.0942	"	"	"	"	"	
Copper	28.4		9.42	"	"	"	"	"	
Lead	70.1		0.942	"	"	"	"	"	
Nickel	10.6		0.942	"	"	"	"	"	
Selenium	ND		0.245	"	"	"	"	"	

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**WH-RISER(23-4L)@4'
2/24/2025 2:30:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5B0599-01 (Soil)
Origins Laboratory**

Table 915 metals by EPA 6020B


Silver	ND		0.0942	mg/kg	10	B5B2514	02/25/2025	02/26/2025	
Zinc	85.2		34.9	"	"	"	"	"	

Waypoint Analytical, LLC.

PAH BY 8270D

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L802267	02/27/2025	02/27/2025	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000459	0.000394	0.00067	"	"	"	"	"	J
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	

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**WH-RISER(23-4L)@4'
 2/24/2025 2:30:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5B0599-01 (Soil) Waypoint Analytical, LLC.									
PAH BY 8270D									
Pyrene	0.000875	0.000643	0.00067	mg/Kg	1	L802267	02/27/2025	02/27/2025	
Surrogate: 2-Fluorobiphenyl	43.9 %			33-115		"	"	"	
Surrogate: 4-Terphenyl-d14	57.9 %			33-122		"	"	"	
Surrogate: Nitrobenzene-d5	54.2 %			29-110		"	"	"	
TOTAL METALS BY 7196A									
Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L802255	02/24/2025	02/27/2025	

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WH-RISER(23-4L)@4'-V
2/24/2025 2:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5B0599-02 (Soil)									
Origins Laboratory									
pH in Soil by 9045D									
pH	8.16			pH Units	1	B5B2513	02/25/2025	02/26/2025	
Table 915 metals by EPA 6020B									
Barium	109		9.11	mg/kg	10	B5C1072	03/10/2025	03/12/2025	
Cadmium	0.332		0.0911	"	"	"	"	"	
Lead	37.9		0.911	"	"	"	"	"	

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WH-RISER(23-4L)@4'-V
2/24/2025 2:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5B0599-02RE1 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Lead	70.6		0.929	mg/kg	10	B5D0335	03/10/2025	04/04/2025	

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WH-RISER(23-4L)@4'-V
2/24/2025 2:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5B0599-02RE2 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Lead	62.3		0.868	mg/kg	10	B5D0335	03/10/2025	04/04/2025	

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Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5B2508 - DTPA Sorbitol Preparation

Blank (B5B2508-BLK1)

Prepared: 02/25/2025 Analyzed: 02/26/2025

Boron ND 0.100 mg/L

Duplicate (B5B2508-DUP1)

Source: E5B0595-01

Prepared: 02/25/2025 Analyzed: 02/26/2025

Boron 0.0878 0.101 mg/L 0.101 14.2 50

Batch B5B2510 - Saturated Paste Metals

Blank (B5B2510-BLK1)

Prepared: 02/25/2025 Analyzed: 02/26/2025

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B5B2510-DUP1)

Source: E5B0596-01

Prepared: 02/25/2025 Analyzed: 02/26/2025

Calcium PPM 16.4 10.0 mg/L 17.4 6.22 50

SAR ND 0.0100 SAR 0.323 200

Magnesium PPM 4.46 10.0 mg/L 4.62 3.52 50

Sodium PPM 5.10 10.0 " 5.87 14.0 50

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5B2515 - EPA 3550B

Blank (B5B2515-BLK1)

Prepared: 02/25/2025 Analyzed: 02/26/2025

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	18		"	24.9		70.9	50-150			

LCS (B5B2515-BS1)

Prepared: 02/25/2025 Analyzed: 02/26/2025

Diesel (C10-C28)	893	50.0	mg/kg	1000		89.3	70-130			
Residual Range Organics (C28-C40)	849	200	"	1000		84.9	70-130			
Surrogate: o-Terphenyl	45		"	49.8		89.8	50-150			

Matrix Spike (B5B2515-MS1)

Source: E5B0587-01

Prepared: 02/25/2025 Analyzed: 02/26/2025

Diesel (C10-C28)	934	50.0	mg/kg	1000	ND	93.4	70-130			
Residual Range Organics (C28-C40)	901	200	"	1000	ND	90.1	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.1	50-150			

Matrix Spike Dup (B5B2515-MSD1)

Source: E5B0587-01

Prepared: 02/25/2025 Analyzed: 02/26/2025

Diesel (C10-C28)	966	50.0	mg/kg	1000	ND	96.6	70-130	3.32	35	
Residual Range Organics (C28-C40)	928	200	"	1000	ND	92.8	70-130	3.03	35	
Surrogate: o-Terphenyl	47		"	49.8		94.0	50-150			

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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5B2514 - EPA 3050B

Prepared: 02/25/2025 Analyzed: 02/26/2025

Blank (B5B2514-BLK1)

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

LCS (B5B2514-BS1)

Prepared: 02/25/2025 Analyzed: 02/26/2025

Arsenic	5.54	0.290	mg/kg	5.00		111	80-120			
Barium	551	10.0	"	500		110	80-120			
Cadmium	5.36	0.100	"	5.00		107	80-120			
Copper	56.0	10.0	"	50.0		112	80-120			
Lead	5.33	1.00	"	5.00		107	80-120			
Nickel	5.88	1.00	"	5.00		118	80-120			
Selenium	5.40	0.260	"	5.00		108	80-120			
Silver	5.38	0.100	"	5.00		108	80-120			
Zinc	56.9	37.0	"	50.0		114	80-120			

Matrix Spike (B5B2514-MS1)

Source: E5B0595-01

Prepared: 02/25/2025 Analyzed: 02/26/2025

Arsenic	7.30	0.271	mg/kg	4.67	2.00	113	75-125			
Barium	578	9.34	"	467	58.7	111	75-125			
Cadmium	5.06	0.0934	"	4.67	0.0266	108	75-125			
Copper	53.7	9.34	"	46.7	3.03	109	75-125			
Lead	10.4	0.934	"	4.67	5.39	107	75-125			

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Jeremy Espinoza
 Project Number: 09A1417995
 Project: KMG - Palombo 23-4L Wellhead

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5B2514 - EPA 3050B

Matrix Spike (B5B2514-MS1)

Source: E5B0595-01

Prepared: 02/25/2025 Analyzed: 02/26/2025

Nickel	10.4	0.934	mg/kg	4.67	5.06	114	75-125			
Selenium	5.01	0.243	"	4.67	0.0931	105	75-125			
Silver	5.02	0.0934	"	4.67	0.00665	107	75-125			
Zinc	75.7	34.5	"	46.7	23.6	112	75-125			

Matrix Spike Dup (B5B2514-MSD1)

Source: E5B0595-01

Prepared: 02/25/2025 Analyzed: 02/26/2025

Arsenic	6.90	0.249	mg/kg	4.29	2.00	114	75-125	5.69	20	
Barium	510	8.58	"	429	58.7	105	75-125	12.5	20	
Cadmium	4.61	0.0858	"	4.29	0.0266	107	75-125	9.22	20	
Copper	49.1	8.58	"	42.9	3.03	107	75-125	8.84	20	
Lead	10.2	0.858	"	4.29	5.39	111	75-125	2.24	20	
Nickel	9.94	0.858	"	4.29	5.06	114	75-125	4.61	20	
Selenium	4.65	0.223	"	4.29	0.0931	106	75-125	7.48	20	
Silver	4.56	0.0858	"	4.29	0.00665	106	75-125	9.53	20	
Zinc	71.2	31.8	"	42.9	23.6	111	75-125	6.19	20	

Batch B5C1072 - EPA 3050B

Blank (B5C1072-BLK1)

Prepared: 03/10/2025 Analyzed: 03/12/2025

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

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

Jeremy Espinoza
 Project Number: 09A1417995
 Project: KMG - Palombo 23-4L Wellhead

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5C1072 - EPA 3050B

Prepared: 03/10/2025 Analyzed: 03/12/2025

Blank (B5C1072-BLK1)

Zinc ND 37.0 mg/kg

LCS (B5C1072-BS1)

Prepared: 03/10/2025 Analyzed: 03/13/2025

Arsenic	5.38	0.290	mg/kg	5.00		108	80-120			
Barium	581	10.0	"	500		116	80-120			
Cadmium	5.43	0.100	"	5.00		109	80-120			
Copper	54.4	10.0	"	50.0		109	80-120			
Lead	5.54	1.00	"	5.00		111	80-120			
Nickel	5.45	1.00	"	5.00		109	80-120			
Selenium	5.51	0.260	"	5.00		110	80-120			
Silver	5.60	0.100	"	5.00		112	80-120			
Zinc	55.8	37.0	"	50.0		112	80-120			

Matrix Spike (B5C1072-MS1)

Source: E5C0313-06

Prepared: 03/10/2025 Analyzed: 03/12/2025

Arsenic	9.70	0.289	mg/kg	4.98	3.04	134	75-125			QM-07
Barium	674	9.97	"	498	69.4	121	75-125			
Cadmium	5.86	0.0997	"	4.98	0.106	116	75-125			
Copper	62.4	9.97	"	49.8	5.04	115	75-125			
Lead	11.8	0.997	"	4.98	5.80	121	75-125			
Nickel	12.4	0.997	"	4.98	6.19	126	75-125			QM-07
Selenium	5.64	0.259	"	4.98	0.194	109	75-125			
Silver	5.86	0.0997	"	4.98	0.0249	117	75-125			
Zinc	91.7	36.9	"	49.8	28.4	127	75-125			QM-07

Matrix Spike Dup (B5C1072-MSD1)

Source: E5C0313-06

Prepared: 03/10/2025 Analyzed: 03/12/2025

Arsenic	8.42	0.274	mg/kg	4.72	3.04	114	75-125	14.1	20	
Barium	602	9.43	"	472	69.4	113	75-125	11.3	20	

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 Project: KMG - Palombo 23-4L Wellhead

Metals by EPA 6000/7000 Series Methods - 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 B5C1072 - EPA 3050B

Matrix Spike Dup (B5C1072-MSD1)

Source: E5C0313-06

Prepared: 03/10/2025 Analyzed: 03/12/2025

Cadmium	5.28	0.0943	mg/kg	4.72	0.106	110	75-125	10.4	20	
Copper	56.3	9.43	"	47.2	5.04	109	75-125	10.3	20	
Lead	11.0	0.943	"	4.72	5.80	111	75-125	7.05	20	
Nickel	11.3	0.943	"	4.72	6.19	108	75-125	9.90	20	
Selenium	5.28	0.245	"	4.72	0.194	108	75-125	6.61	20	
Silver	5.27	0.0943	"	4.72	0.0249	111	75-125	10.6	20	
Zinc	83.7	34.9	"	47.2	28.4	117	75-125	9.17	20	

Batch B5D0335 - EPA 3050B

Blank (B5D0335-BLK1)

Prepared: 04/03/2025 Analyzed: 04/04/2025

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

LCS (B5D0335-BS1)

Prepared: 04/03/2025 Analyzed: 04/04/2025

Arsenic	5.54	0.290	mg/kg	5.00		111	80-120			
Barium	544	10.0	"	500		109	80-120			
Cadmium	5.76	0.100	"	5.00		115	80-120			
Copper	54.5	10.0	"	50.0		109	80-120			
Lead	5.61	1.00	"	5.00		112	80-120			

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Metals by EPA 6000/7000 Series Methods - 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 B5D0335 - EPA 3050B

LCS (B5D0335-BS1)

Prepared: 04/03/2025 Analyzed: 04/04/2025

Nickel	5.73	1.00	mg/kg	5.00		115	80-120			
Selenium	5.78	0.260	"	5.00		116	80-120			
Silver	5.91	0.100	"	5.00		118	80-120			
Zinc	54.3	37.0	"	50.0		109	80-120			

Matrix Spike (B5D0335-MS1)

Source: E5D0067-03

Prepared: 04/03/2025 Analyzed: 04/04/2025

Arsenic	12.9	0.256	mg/kg	4.41	12.2	16.0	75-125			QM-07
Barium	654	8.82	"	441	131	119	75-125			
Cadmium	5.44	0.0882	"	4.41	0.307	116	75-125			
Copper	60.4	8.82	"	44.1	13.6	106	75-125			
Lead	16.8	0.882	"	4.41	13.1	84.4	75-125			
Nickel	20.6	0.882	"	4.41	14.4	141	75-125			QM-07
Selenium	5.52	0.229	"	4.41	0.381	117	75-125			
Silver	5.29	0.0882	"	4.41	0.0261	119	75-125			
Zinc	102	32.7	"	44.1	46.3	127	75-125			QM-07

Matrix Spike Dup (B5D0335-MSD1)

Source: E5D0067-03

Prepared: 04/03/2025 Analyzed: 04/04/2025

Arsenic	13.1	0.271	mg/kg	4.67	12.2	19.9	75-125	1.72	20	QM-07
Barium	656	9.34	"	467	131	112	75-125	0.216	20	
Cadmium	5.41	0.0934	"	4.67	0.307	109	75-125	0.395	20	
Copper	61.7	9.34	"	46.7	13.6	103	75-125	2.24	20	
Lead	16.5	0.934	"	4.67	13.1	72.9	75-125	1.91	20	QM-07
Nickel	22.3	0.934	"	4.67	14.4	169	75-125	7.80	20	QM-07
Selenium	5.59	0.243	"	4.67	0.381	112	75-125	1.15	20	
Silver	5.28	0.0934	"	4.67	0.0261	113	75-125	0.0392	20	
Zinc	104	34.5	"	46.7	46.3	124	75-125	1.82	20	

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 Project: KMG - Palombo 23-4L Wellhead

Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5B2512 - Saturated Paste pH/EC

Prepared: 02/25/2025 Analyzed: 02/26/2025

Blank (B5B2512-BLK1)

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5B2512-DUP1)

Source: E5B0596-01

Prepared: 02/25/2025 Analyzed: 02/26/2025

Specific Conductance (EC)	0.208	0.00500	mmhos/cm		0.211		1.00	25		
pH	8.29		pH Units		8.25		0.484	25		

Batch B5B2513 - Saturated Paste pH/EC

Prepared: 02/25/2025 Analyzed: 02/26/2025

Duplicate (B5B2513-DUP1)

Source: E5B0578-01

pH	8.35		pH Units		8.35		0.00	25		
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Jeremy Espinoza
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 Project: KMG - Palombo 23-4L Wellhead

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5B2445 - EPA 5030 (soil)

Blank (B5B2445-BLK1)

Prepared: 02/24/2025 Analyzed: 02/26/2025

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
Toluene	ND	0.00200	"							U
o-Xylene	ND	0.00200	"							U
m,p-Xylene	ND	0.00400	"							U
Xylenes, total	ND	0.00200	"							U
Import Verification	ND	0.00100	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U

Surrogate: 1,2-Dichloroethane-d4	0.14	"		0.125		109	70-130
Surrogate: Toluene-d8	0.13	"		0.125		102	70-130
Surrogate: 4-Bromofluorobenzene	0.13	"		0.125		102	70-130

LCS (B5B2445-BS1)

Prepared: 02/24/2025 Analyzed: 02/26/2025

1,2,4-Trimethylbenzene	0.0947	0.00200	mg/kg	0.100		94.7	70-130
1,3,5-Trimethylbenzene	0.0962	0.00200	"	0.100		96.2	70-130
Benzene	0.0870	0.00200	"	0.100		87.0	70-130
Ethylbenzene	0.0912	0.00200	"	0.100		91.2	70-130
Toluene	0.0863	0.00200	"	0.100		86.3	70-130
o-Xylene	0.0926	0.00200	"	0.100		92.6	70-130
m,p-Xylene	0.175	0.00400	"	0.200		87.5	70-130
Surrogate: 1,2-Dichloroethane-d4	0.14	"		0.125		110	70-130
Surrogate: Toluene-d8	0.13	"		0.125		102	70-130
Surrogate: 4-Bromofluorobenzene	0.13	"		0.125		103	70-130

Matrix Spike (B5B2445-MS1)

Source: E5B0586-01

Prepared: 02/24/2025 Analyzed: 02/27/2025

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 Project: KMG - Palombo 23-4L Wellhead

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5B2445 - EPA 5030 (soil)

Matrix Spike (B5B2445-MS1)		Source: E5B0586-01			Prepared: 02/24/2025 Analyzed: 02/27/2025					
1,2,4-Trimethylbenzene	0.0780	0.00200	mg/kg	0.100	ND	78.0	70-130			
1,3,5-Trimethylbenzene	0.0770	0.00200	"	0.100	ND	77.0	70-130			
Benzene	0.0864	0.00200	"	0.100	0.000680	85.7	70-130			
Ethylbenzene	0.0853	0.00200	"	0.100	ND	85.3	70-130			
Toluene	0.0852	0.00200	"	0.100	ND	85.2	70-130			
o-Xylene	0.0807	0.00200	"	0.100	ND	80.7	70-130			
m,p-Xylene	0.176	0.00400	"	0.200	ND	88.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.4	70-130			

Matrix Spike Dup (B5B2445-MSD1)		Source: E5B0586-01			Prepared: 02/24/2025 Analyzed: 02/27/2025					
1,2,4-Trimethylbenzene	0.0804	0.00200	mg/kg	0.100	ND	80.4	70-130	3.05	20	
1,3,5-Trimethylbenzene	0.0815	0.00200	"	0.100	ND	81.5	70-130	5.73	20	
Benzene	0.0873	0.00200	"	0.100	0.000680	86.6	70-130	1.01	20	
Ethylbenzene	0.0852	0.00200	"	0.100	ND	85.2	70-130	0.188	20	
Toluene	0.0873	0.00200	"	0.100	ND	87.3	70-130	2.39	20	
o-Xylene	0.0819	0.00200	"	0.100	ND	81.9	70-130	1.43	20	
m,p-Xylene	0.176	0.00400	"	0.200	ND	87.8	70-130	0.262	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		87.3	70-130			

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 Project: KMG - Palombo 23-4L Wellhead

PAH BY 8270D - 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 L802267 - 3550B

MSD (L 82227-MSD-L802267)

Source: 82227

Prepared: 02/27/2025 Analyzed: 02/27/2025

Benzo(k)fluoranthene	0.117	0.00067	mg/Kg	0.166	<0.000437	70.4	30-130	1.6	30	
2-Methylnaphthalene	0.0795	0.00201	"	0.166	<0.00194	47.8	30-130	0.1	30	
Acenaphthene	0.0974	0.00067	"	0.166	<0.000304	58.6	30-130	1.5	30	
Anthracene	0.0949	0.00067	"	0.166	<0.000334	57.1	30-130	0.1	30	
Benzo(a)anthracene	0.113	0.00067	"	0.166	<0.000493	68	30-130	0.8	30	
Benzo(b)fluoranthene	0.125	0.00067	"	0.166	<0.000585	75.3	30-130	0.8	30	
1-Methylnaphthalene	0.0753	0.00201	"	0.166	<0.00109	45.3	30-130	1.3	30	
Chrysene	0.0988	0.00067	"	0.166	<0.000624	59.5	30-130	0.9	30	
Dibenz(a,h)anthracene	0.137	0.00067	"	0.166	<0.000614	82.5	30-130	3.7	30	
Fluoranthene	0.111	0.00067	"	0.166	<0.000394	66.8	30-130	0	30	
Fluorene	0.104	0.00067	"	0.166	<0.000286	62.6	30-130	2.9	30	
Indeno(1,2,3-cd)pyrene	0.134	0.00067	"	0.166	<0.000627	80.7	30-130	2.2	30	
Naphthalene	0.0663	0.00201	"	0.166	<0.00145	39.9	30-130	1.2	30	
Pyrene	0.11	0.00067	"	0.166	<0.000643	66.2	30-130	0.9	30	
Benzo(a)pyrene	0.12	0.00067	"	0.166	<0.000468	72.2	30-130	1.6	30	
Surrogate: 2-Fluorobiphenyl	46.5		"	0.331	166	46.5	33-115			
Surrogate: 4-Terphenyl-d14	71.6		"	0.331	255	71.6	33-122			
Surrogate: Nitrobenzene-d5	61.3		"	0.331	205	61.3	29-110			

MS (L 82227-MS-L802267)

Source: 82227

Prepared: 02/27/2025 Analyzed: 02/27/2025

Acenaphthene	0.0959	0.00067	mg/Kg	0.164	<0.000304	58.4	30-130			
Indeno(1,2,3-cd)pyrene	0.131	0.00067	"	0.164	<0.000627	79.8	30-130			
2-Methylnaphthalene	0.0794	0.00201	"	0.164	<0.00194	48.4	30-130			
Pyrene	0.109	0.00067	"	0.164	<0.000643	66.4	30-130			
1-Methylnaphthalene	0.0743	0.00201	"	0.164	<0.00109	45.3	30-130			
Naphthalene	0.0655	0.00201	"	0.164	<0.00145	39.9	30-130			
Fluorene	0.101	0.00067	"	0.164	<0.000286	61.5	30-130			

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Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L802267 - 3550B

MS (L 82227-MS-L802267)		Source: 82227		Prepared: 02/27/2025 Analyzed: 02/27/2025						
Fluoranthene	0.111	0.00067	mg/Kg	0.164	<0.000394	67.6	30-130			
Dibenz(a,h)anthracene	0.132	0.00067	"	0.164	<0.000614	80.4	30-130			
Benzo(k)fluoranthene	0.119	0.00067	"	0.164	<0.000437	72.5	30-130			
Benzo(b)fluoranthene	0.124	0.00067	"	0.164	<0.000585	75.6	30-130			
Benzo(a)pyrene	0.118	0.00067	"	0.164	<0.000468	71.9	30-130			
Benzo(a)anthracene	0.112	0.00067	"	0.164	<0.000493	68.2	30-130			
Anthracene	0.095	0.00067	"	0.164	<0.000334	57.9	30-130			
Chrysene	0.0979	0.00067	"	0.164	<0.000624	59.6	30-130			

Surrogate: 4-Terphenyl-d14	70.7		"	0.328	255	70.7	33-122			
Surrogate: 2-Fluorobiphenyl	44.8		"	0.328	166	44.8	33-115			
Surrogate: Nitrobenzene-d5	60.9		"	0.328	205	60.9	29-110			

LCS (LCS-L802267)		Prepared: 02/27/2025 Analyzed: 02/27/2025								
Pyrene	0.123	0.00067	mg/Kg	0.167		73.6	30-130			
Benzo(k)fluoranthene	0.14	0.00067	"	0.167		83.8	30-130			
Dibenz(a,h)anthracene	0.164	0.00067	"	0.167		98.2	30-130			
Fluoranthene	0.129	0.00067	"	0.167		77.2	30-130			
Fluorene	0.121	0.00067	"	0.167		72.4	30-130			
Indeno(1,2,3-cd)pyrene	0.157	0.00067	"	0.167		94	30-130			
Benzo(b)fluoranthene	0.148	0.00067	"	0.167		88.6	30-130			
Naphthalene	0.0775	0.00201	"	0.167		46.4	30-130			
Benzo(a)anthracene	0.13	0.00067	"	0.167		77.8	30-130			
Anthracene	0.112	0.00067	"	0.167		67	30-130			
Acenaphthene	0.115	0.00067	"	0.167		68.8	30-130			
2-Methylnaphthalene	0.0966	0.00201	"	0.167		57.8	30-130			
1-Methylnaphthalene	0.0889	0.00201	"	0.167		53.2	30-130			
Chrysene	0.112	0.00067	"	0.167		67	30-130			

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 Project: KMG - Palombo 23-4L Wellhead

PAH BY 8270D - 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 L802267 - 3550B

LCS (LCS-L802267)

Prepared: 02/27/2025 Analyzed: 02/27/2025

Benzo(a)pyrene	0.136	0.00067	mg/Kg	0.167		81.4	30-130			
Surrogate: Nitrobenzene-d5	69.6		"	0.333		69.6	29-110			
Surrogate: 4-Terphenyl-d14	78		"	0.333		78	33-122			
Surrogate: 2-Fluorobiphenyl	56.4		"	0.333		56.4	33-115			

LRB (LRB-L802267)

Prepared: 02/27/2025 Analyzed: 02/27/2025

Benzo(k)fluoranthene	ND	0.00067	mg/Kg				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	71.7		"	0.333		71.7	29-110			
Surrogate: 4-Terphenyl-d14	90		"	0.333		90	33-122			
Surrogate: 2-Fluorobiphenyl	55.2		"	0.333		55.2	33-115			

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

Jeremy Espinoza
 Project Number: 09A1417995
 Project: KMG - Palombo 23-4L Wellhead

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 L802255 -										
DUP (L 82405-DUP)										
		Source: 82405			Prepared: Analyzed: 02/27/2025					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 82405-MS)										
		Source: 82405			Prepared: Analyzed: 02/27/2025					
Chromium, Hexavalent	31.9	2.5	mg/Kg	39.3	< 0.244	81	75-125			
LCS (LCS)										
					Prepared: Analyzed: 02/27/2025					
Chromium, Hexavalent	6.34	0.5	mg/Kg	8		79	75-125			
LRB (LRB)										
					Prepared: Analyzed: 02/27/2025					
Chromium, Hexavalent	ND	0.5	mg/Kg							

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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.
 - 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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