



Verdad Resources

April 28, 2025

Dean Wagoner

1125 17th St Suite 550

Denver CO 80202

Project Name - Vicki 21-24

Project Number - [none]

Attached are your analytical results for Vicki 21-24 received by Origins Laboratory April 09, 2025. This project is associated with Origins project number E5D0252-01.

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



Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Vicki 21-24

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BACKGROUND	E5D0252-01	Soil	April 9, 2025 12:40	04/09/2025 15:34

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ORIGINS LABORATORY

Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Vicki 21-24

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

Sample Receipt Checklist

Origins Work Order: ESDD252 Client: Verdad Resources
 Client Project ID: Vicki 21-24

Checklist Completed by: NKM/NKM Shipped Via: FD
 Date/time completed: 04/09/25 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A


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

Cooler Number/Temperature: 1 / 1.1 °C
 Thermometer ID: T-007

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) [Signature] Date/Time Reviewed 4/11/25

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Dean Wagoner
Project Number: [none]
Project: Vicki 21-24

BACKGROUND
4/9/2025 12:40:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0252-01 (Soil)									
Enthalpy Orange									
PAH BY EPA 8270C-SIM									
1-Methylnaphthalene	ND	0.0015	0.010	mg/Kg	1	368811	04/15/2025	04/16/2025	ND
2-Methylnaphthalene	ND	0.0019	0.010	"	"	"	"	"	ND
Acenaphthene	ND	0.0015	0.010	"	"	"	"	"	ND
Anthracene	ND	0.0026	0.010	"	"	"	"	"	ND
Benzo(a)anthracene	ND	0.0011	0.010	"	"	"	"	"	ND
Benzo(a)pyrene	ND	0.0011	0.010	"	"	"	"	"	ND
Benzo(b)fluoranthene	ND	0.0011	0.010	"	"	"	"	"	ND
Benzo(k)fluoranthene	ND	0.0016	0.010	"	"	"	"	"	ND
Chrysene	ND	0.00099	0.010	"	"	"	"	"	ND
Dibenz(a,h)anthracene	ND	0.0028	0.010	"	"	"	"	"	ND
Fluoranthene	ND	0.0014	0.010	"	"	"	"	"	ND
Fluorene	ND	0.0013	0.010	"	"	"	"	"	ND
Indeno(1,2,3-cd)pyrene	ND	0.0024	0.010	"	"	"	"	"	ND
Naphthalene	ND	0.0016	0.010	"	"	"	"	"	ND
Pyrene	ND	0.0033	0.010	"	"	"	"	"	ND
Surrogate: 2-Fluorobiphenyl	79 %			30-120	"	"	"	"	
Surrogate: Nitrobenzene-d5	76 %			27-125	"	"	"	"	
Surrogate: Terphenyl-d14	86 %			33-155	"	"	"	"	

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 Project: Vicki 21-24

BACKGROUND
4/9/2025 12:40:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0252-01 (Soil)
Enthalpy Orange

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.11	0.29	mg/Kg	1	368598	04/11/2025	04/14/2025	ND
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Boron (DTPA Sorbitol)

Boron	0.371		0.0997	mg/L	1	B5D1011	04/10/2025	04/11/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D1001	04/10/2025	04/10/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.5 %			50-150		"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D1005	04/10/2025	04/10/2025	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

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BACKGROUND
4/9/2025 12:40:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0252-01 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5D1005	04/10/2025	04/10/2025	U
Surrogate: 1,2-Dichloroethane-d4	116 %			70-130		"	"	"	
Surrogate: Toluene-d8	95.6 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.59		0.499	meq/L	10	[CALC]	04/10/2025	04/16/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.04		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.40			pH Units	1	B5D1014	04/10/2025	04/15/2025	
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SAR by 20B Saturated Paste

SAR	0.998		0.0100	SAR	1	B5D1012	04/10/2025	04/16/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.292		0.00500	mmhos/cm	1	B5D1014	04/10/2025	04/15/2025	
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Table 915 metals by EPA 6020B

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BACKGROUND
4/9/2025 12:40:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0252-01 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	5.72		0.253	mg/kg	10	B5D1025	04/10/2025	04/11/2025	
Barium	215		8.71	"	"	"	"	"	"
Cadmium	0.249		0.0871	"	"	"	"	"	"
Copper	14.3		8.71	"	"	"	"	"	"
Lead	12.2		0.871	"	"	"	"	"	"
Nickel	17.1		0.871	"	"	"	"	"	"
Selenium	ND		0.226	"	"	"	"	"	"
Silver	ND		0.0871	"	"	"	"	"	"
Zinc	58.0		32.2	"	"	"	"	"	"

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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 B5D1011 - DTPA Sorbitol Preparation

Blank (B5D1011-BLK1)

Prepared: 04/10/2025 Analyzed: 04/11/2025

Boron ND 0.100 mg/L

Duplicate (B5D1011-DUP1)

Source: E5D0251-03

Prepared: 04/10/2025 Analyzed: 04/11/2025

Boron 0.385 0.100 mg/L 0.388 0.896 50

Batch B5D1012 - Saturated Paste Metals

Blank (B5D1012-BLK1)

Prepared: 04/10/2025 Analyzed: 04/16/2025

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B5D1012-DUP1)

Source: E5D0229-01

Prepared: 04/10/2025 Analyzed: 04/16/2025

SAR ND 0.0100 SAR 1.78 200

Calcium PPM 29.3 10.0 mg/L 30.5 4.05 50

Magnesium PPM 15.4 10.0 " 15.1 1.64 50

Sodium PPM 47.6 10.0 " 48.2 1.17 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 B5D1001 - EPA 3550B

Blank (B5D1001-BLK1)

Prepared: 04/10/2025 Analyzed: 04/10/2025

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	24.9		75.2	50-150			

LCS (B5D1001-BS1)

Prepared: 04/10/2025 Analyzed: 04/10/2025

Diesel (C10-C28)	1180	50.0	mg/kg	1000		118	70-130			
Residual Range Organics (C28-C40)	1140	200	"	1000		114	70-130			
Surrogate: o-Terphenyl	60		"	49.8		120	50-150			

Matrix Spike (B5D1001-MS1)

Source: E5D0232-01

Prepared: 04/10/2025 Analyzed: 04/10/2025

Diesel (C10-C28)	1170	50.0	mg/kg	1000	ND	117	70-130			
Residual Range Organics (C28-C40)	1130	200	"	1000	ND	113	70-130			
Surrogate: o-Terphenyl	56		"	49.8		113	50-150			

Matrix Spike Dup (B5D1001-MSD1)

Source: E5D0232-01

Prepared: 04/10/2025 Analyzed: 04/10/2025

Diesel (C10-C28)	1110	50.0	mg/kg	1000	ND	111	70-130	5.84	35	
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130	6.22	35	
Surrogate: o-Terphenyl	54		"	49.8		108	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 B5D1025 - EPA 3050B

Blank (B5D1025-BLK1)

Prepared: 04/10/2025 Analyzed: 04/11/2025

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 (B5D1025-BS1)

Prepared: 04/10/2025 Analyzed: 04/11/2025

Arsenic	5.31	0.290	mg/kg	5.00		106	80-120			
Barium	516	10.0	"	500		103	80-120			
Cadmium	5.14	0.100	"	5.00		103	80-120			
Copper	52.5	10.0	"	50.0		105	80-120			
Lead	5.10	1.00	"	5.00		102	80-120			
Nickel	5.27	1.00	"	5.00		105	80-120			
Selenium	5.14	0.260	"	5.00		103	80-120			
Silver	5.19	0.100	"	5.00		104	80-120			
Zinc	52.3	37.0	"	50.0		105	80-120			

Matrix Spike (B5D1025-MS1)

Source: E5D0232-01

Prepared: 04/10/2025 Analyzed: 04/11/2025

Arsenic	7.45	0.263	mg/kg	4.53	2.86	101	75-125			
Barium	543	9.06	"	453	36.1	112	75-125			
Cadmium	4.94	0.0906	"	4.53	0.107	107	75-125			
Copper	66.4	9.06	"	45.3	15.1	113	75-125			
Lead	19.4	0.906	"	4.53	14.2	113	75-125			

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Dean Wagoner
 Project Number: [none]
 Project: Vicki 21-24

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 B5D1025 - EPA 3050B

Matrix Spike (B5D1025-MS1)

Source: E5D0232-01

Prepared: 04/10/2025 Analyzed: 04/11/2025

Nickel	14.6	0.906	mg/kg	4.53	8.35	137	75-125			QM-07
Selenium	4.90	0.236	"	4.53	0.127	105	75-125			
Silver	4.96	0.0906	"	4.53	0.0792	108	75-125			
Zinc	97.9	33.5	"	45.3	41.9	124	75-125			

Matrix Spike Dup (B5D1025-MSD1)

Source: E5D0232-01

Prepared: 04/10/2025 Analyzed: 04/11/2025

Arsenic	7.97	0.260	mg/kg	4.49	2.86	114	75-125	6.75	20	
Barium	542	8.98	"	449	36.1	113	75-125	0.240	20	
Cadmium	5.04	0.0898	"	4.49	0.107	110	75-125	1.88	20	
Copper	68.8	8.98	"	44.9	15.1	120	75-125	3.66	20	
Lead	19.2	0.898	"	4.49	14.2	111	75-125	0.804	20	
Nickel	14.3	0.898	"	4.49	8.35	133	75-125	1.55	20	QM-07
Selenium	4.90	0.233	"	4.49	0.127	106	75-125	0.0183	20	
Silver	5.03	0.0898	"	4.49	0.0792	110	75-125	1.36	20	
Zinc	97.2	33.2	"	44.9	41.9	123	75-125	0.749	20	

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 Project: Vicki 21-24

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 B5D1014 - Saturated Paste pH/EC

Blank (B5D1014-BLK1)

Prepared: 04/10/2025 Analyzed: 04/15/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5D1014-DUP1)

Source: E5D0229-01

Prepared: 04/10/2025 Analyzed: 04/15/2025

pH 8.32 pH Units 8.32 0.00 25

Specific Conductance (EC) 0.502 0.00500 mmhos/cm 0.504 0.457 25

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Dean Wagoner
 Project Number: [none]
 Project: Vicki 21-24

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 B5D1005 - EPA 5030 (soil)

Blank (B5D1005-BLK1)

Prepared: 04/10/2025 Analyzed: 04/10/2025

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
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U

Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	96.5	70-130
Surrogate: Toluene-d8	0.13		"	0.125	100	70-130
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101	70-130

LCS (B5D1005-BS1)

Prepared: 04/10/2025 Analyzed: 04/10/2025

1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100	108	70-130
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100	109	70-130
Benzene	0.0983	0.00200	"	0.100	98.3	70-130
Ethylbenzene	0.104	0.00200	"	0.100	104	70-130
Toluene	0.0953	0.00200	"	0.100	95.3	70-130
o-Xylene	0.107	0.00200	"	0.100	107	70-130
m,p-Xylene	0.207	0.00400	"	0.200	104	70-130
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	99.3	70-130
Surrogate: Toluene-d8	0.12		"	0.125	99.1	70-130
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.1	70-130

Matrix Spike (B5D1005-MS1)

Source: E5D0238-21

Prepared: 04/10/2025 Analyzed: 04/10/2025

1,2,4-Trimethylbenzene	0.0991	0.00200	mg/kg	0.100	ND	99.1	70-130
1,3,5-Trimethylbenzene	0.0982	0.00200	"	0.100	ND	98.2	70-130
Benzene	0.0982	0.00200	"	0.100	ND	98.2	70-130

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 Project: Vicki 21-24

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 B5D1005 - EPA 5030 (soil)

Matrix Spike (B5D1005-MS1)			Source: E5D0238-21		Prepared: 04/10/2025 Analyzed: 04/10/2025					
Ethylbenzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130			
Toluene	0.0953	0.00200	"	0.100	ND	95.3	70-130			
o-Xylene	0.108	0.00200	"	0.100	ND	108	70-130			
m,p-Xylene	0.198	0.00400	"	0.200	ND	99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Matrix Spike Dup (B5D1005-MSD1)			Source: E5D0238-21		Prepared: 04/10/2025 Analyzed: 04/10/2025					
1,2,4-Trimethylbenzene	0.0922	0.00200	mg/kg	0.100	ND	92.2	70-130	7.23	20	
1,3,5-Trimethylbenzene	0.0909	0.00200	"	0.100	ND	90.9	70-130	7.68	20	
Benzene	0.0915	0.00200	"	0.100	ND	91.5	70-130	7.06	20	
Ethylbenzene	0.0947	0.00200	"	0.100	ND	94.7	70-130	9.48	20	
Toluene	0.0868	0.00200	"	0.100	ND	86.8	70-130	9.31	20	
o-Xylene	0.0991	0.00200	"	0.100	ND	99.1	70-130	8.93	20	
m,p-Xylene	0.187	0.00400	"	0.200	ND	93.7	70-130	5.68	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Dean Wagoner
 Project Number: [none]
 Project: Vicki 21-24

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Enthalpy Orange

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 368811 - EPA 3546

BLANK (QC1248811)

Prepared: 04/15/2025 Analyzed: 04/16/2025

Indeno(1,2,3-cd)pyrene	ND	0.010	mg/Kg				-			ND
Dibenz(a,h)anthracene	ND	0.010	"				-			ND
Chrysene	ND	0.010	"				-			ND
Pyrene	ND	0.010	"				-			ND
Naphthalene	ND	0.010	"				-			ND
2-Methylnaphthalene	ND	0.010	"				-			ND
Fluorene	ND	0.010	"				-			ND
Fluoranthene	ND	0.010	"				-			ND
1-Methylnaphthalene	ND	0.010	"				-			ND
Benzo(k)fluoranthene	ND	0.010	"				-			ND
Benzo(b)fluoranthene	ND	0.010	"				-			ND
Benzo(a)pyrene	ND	0.010	"				-			ND
Benzo(a)anthracene	ND	0.010	"				-			ND
Anthracene	ND	0.010	"				-			ND
Acenaphthene	ND	0.010	"				-			ND
Surrogate: 2-Fluorobiphenyl	0.1409		"	0.2010		70	30-120			
Surrogate: Nitrobenzene-d5	0.1313		"	0.2010		65	27-125			
Surrogate: Terphenyl-d14	0.1722		"	0.2010		86	33-155			

LCS (QC1248812)

Prepared: 04/15/2025 Analyzed: 04/16/2025

2-Methylnaphthalene	0.1812	0.01005	mg/Kg	0.2010		90	33-130			
Acenaphthene	0.1733	0.01005	"	0.2010		86	32-130			
Anthracene	0.1789	0.01005	"	0.2010		89	34-136			
Pyrene	0.1757	0.01005	"	0.2010		87	35-134			
Naphthalene	0.1767	0.01005	"	0.2010		88	25-130			
Indeno(1,2,3-cd)pyrene	0.1769	0.01005	"	0.2010		88	34-132			
Fluorene	0.1793	0.01005	"	0.2010		89	35-130			

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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 368811 - EPA 3546

LCS (QC1248812)

Prepared: 04/15/2025 Analyzed: 04/16/2025

Fluoranthene	0.1766	0.01005	mg/Kg	0.2010		88	34-139			
Dibenz(a,h)anthracene	0.1770	0.01005	"	0.2010		88	32-130			
Chrysene	0.1760	0.01005	"	0.2010		88	29-130			
Benzo(k)fluoranthene	0.1683	0.01005	"	0.2010		84	32-130			
Benzo(b)fluoranthene	0.1729	0.01005	"	0.2010		86	32-137			
Benzo(a)pyrene	0.1641	0.01005	"	0.2010		82	10-138			
1-Methylnaphthalene	0.1781	0.01005	"	0.2010		89	28-130			
Benzo(a)anthracene	0.1791	0.01005	"	0.2010		89	30-132			
Surrogate: Terphenyl-d14	0.1773		"	0.2010		88	33-155			
Surrogate: Nitrobenzene-d5	0.1464		"	0.2010		73	27-125			
Surrogate: 2-Fluorobiphenyl	0.1580		"	0.2010		79	30-120			

Matrix Spike (QC1248813)

Source: 530914-002

Prepared: 04/15/2025 Analyzed: 04/16/2025

Acenaphthene	0.1098	0.009901	mg/Kg	0.1980	0	55	28-134			
Indeno(1,2,3-cd)pyrene	0.1465	0.009901	"	0.1980	0.006167	71	26-154			
1-Methylnaphthalene	0.1061	0.009901	"	0.1980	0	54	25-130			
2-Methylnaphthalene	0.1079	0.009901	"	0.1980	0	54	32-133			
Pyrene	0.1663	0.009901	"	0.1980	0.008716	80	26-153			
Anthracene	0.1469	0.009901	"	0.1980	0	74	24-156			
Naphthalene	0.1008	0.009901	"	0.1980	0	51	33-130			
Fluorene	0.1223	0.009901	"	0.1980	0	62	27-140			
Dibenz(a,h)anthracene	0.1384	0.009901	"	0.1980	0	70	38-132			
Chrysene	0.1556	0.009901	"	0.1980	0.006783	75	40-139			
Benzo(k)fluoranthene	0.1464	0.009901	"	0.1980	0.002349	73	36-161			
Benzo(b)fluoranthene	0.1573	0.009901	"	0.1980	0.008147	75	36-164			
Benzo(a)pyrene	0.1499	0.009901	"	0.1980	0.005547	73	18-173			
Benzo(a)anthracene	0.1636	0.009901	"	0.1980	0.003197	81	26-174			

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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 368811 - EPA 3546

Matrix Spike (QC1248813)

Source: 530914-002

Prepared: 04/15/2025 Analyzed: 04/16/2025

Fluoranthene	0.1661	0.009901	mg/Kg	0.1980	0.007619	80	28-160			
Surrogate: Nitrobenzene-d5	0.08578		"	0.1980		43	27-125			
Surrogate: 2-Fluorobiphenyl	0.09325		"	0.1980		47	30-120			
Surrogate: Terphenyl-d14	0.1540		"	0.1980		78	33-155			

Matrix Spike Dup (QC1248814)

Source: 530914-002

Prepared: 04/15/2025 Analyzed: 04/16/2025

Fluorene	0.1516	0.01005	mg/Kg	0.2010	0	75	27-140	20	35	
Pyrene	0.1859	0.01005	"	0.2010	0.008716	88	26-153	10	35	
Naphthalene	0.1259	0.01005	"	0.2010	0	63	33-130	21	35	
Indeno(1,2,3-cd)pyrene	0.1654	0.01005	"	0.2010	0.006167	79	26-154	11	35	
Dibenz(a,h)anthracene	0.1629	0.01005	"	0.2010	0	81	38-132	15	35	
Chrysene	0.1759	0.01005	"	0.2010	0.006783	84	40-139	11	35	
Fluoranthene	0.1876	0.01005	"	0.2010	0.007619	90	28-160	11	35	
Benzo(b)fluoranthene	0.1789	0.01005	"	0.2010	0.008147	85	36-164	11	35	
Benzo(k)fluoranthene	0.1677	0.01005	"	0.2010	0.002349	82	36-161	12	35	
Benzo(a)pyrene	0.1692	0.01005	"	0.2010	0.005547	81	18-173	11	35	
Benzo(a)anthracene	0.1863	0.01005	"	0.2010	0.003197	91	26-174	11	35	
Anthracene	0.1730	0.01005	"	0.2010	0	86	24-156	15	35	
Acenaphthene	0.1393	0.01005	"	0.2010	0	69	28-134	22	35	
2-Methylnaphthalene	0.1355	0.01005	"	0.2010	0	67	32-133	21	35	
1-Methylnaphthalene	0.1331	0.01005	"	0.2010	0	66	25-130	21	35	
Surrogate: Nitrobenzene-d5	0.1077		"	0.2010		54	27-125			
Surrogate: Terphenyl-d14	0.1780		"	0.2010		89	33-155			
Surrogate: 2-Fluorobiphenyl	0.1161		"	0.2010		58	30-120			

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TOTAL METALS BY EPA 7199 - Quality Control
Enthalpy Orange

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 368598 - EPA 3060A										
BLANK (QC1248051)										
					Prepared: 04/11/2025 Analyzed: 04/14/2025					
Hexavalent Chromium	ND	0.30	mg/Kg				-			ND
LCS (QC1248052)										
					Prepared: 04/11/2025 Analyzed: 04/14/2025					
Hexavalent Chromium	40.78	0.6000	mg/Kg	40.00		102	80-120			
Duplicate (QC1248053)										
					Prepared: 04/11/2025 Analyzed: 04/14/2025					
Hexavalent Chromium	ND	0.2896	mg/Kg		0		-		30	ND
Matrix Spike (QC1248055)										
					Prepared: 04/11/2025 Analyzed: 04/14/2025					
Hexavalent Chromium	42.31	0.5859	mg/Kg	39.06	0	108	70-130			

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Dean Wagoner
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Project: Vicki 21-24

Notes and Definitions

- U Sample is Non-Detect.
 - QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
 - ND Not Detected
 - 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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