



July 03, 2024

Eagle Environmental Consulting, LLC

David Castro

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Bayswater - WAAG North Offsite WHs **Project Number - [none]**

Attached are your analytical results for Bayswater - WAAG North Offsite WHs received by Origins Laboratory, Inc. June 19, 2024. This project is associated with Origins project number Y406568-01.

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



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

Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

David Castro
Project Number: [none]
Project: Bayswater - WAAG North Offsite WHs

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01-FS-01@6.5'	Y406568-01	Soil	June 19, 2024 10:56	06/19/2024 16:49
WH02-FS-01@6.5'	Y406568-02	Soil	June 19, 2024 11:09	06/19/2024 16:49
WH03-FS-01@6.5'	Y406568-03	Soil	June 19, 2024 11:28	06/19/2024 16:49
WH04-FS-01@6.5'	Y406568-04	Soil	June 19, 2024 11:48	06/19/2024 16:49
WH05-FS-01@6.5'	Y406568-05	Soil	June 19, 2024 12:08	06/19/2024 16:49

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4406508

Client: Eagle

Client Project ID: WAAGN

Checklist Completed by: ASD

Shipped Via: HD

Date/time completed: 6/19/24

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

Airbill #: N/A

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

Cooler Number/Temperature: 1, 15 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: 7005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>SD</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽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 Na ₂ SO 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.

ASD
 Reviewed by (Project Manager)

6/21/24 0934
 Date/Time Reviewed

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

WH01-FS-01@6.5'
6/19/2024 10:56:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406568-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.366		0.101	mg/L	1	B4F2012	06/20/2024	06/21/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	49.4		25.0	mg/kg	1	B4F2031	06/20/2024	06/26/2024	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	82.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4F2144	06/21/2024	06/22/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	98.7 %		70-130			"	"	"	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
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David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

WH01-FS-01@6.5'
6/19/2024 10:56:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406568-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	96.6 %		70-130			B4F21 44	06/21/2024	06/22/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.07	0.499	meq/L	10	[CALC]		06/20/2024	06/21/2024	
Magnesium	ND	0.823	"	"	"	"	"	"	
Sodium	3.72	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.004	0.002	mg/kg	1	B4F2033		06/20/2024	06/22/2024	
2-Methylnaphthalene	0.004	0.002	"	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (a) anthracene	0.010	0.005	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	"	Ua

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WH01-FS-01@6.5'
6/19/2024 10:56:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406568-01 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4F2033	06/20/2024	06/22/2024	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	104 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	104 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.0 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.55			pH Units	1	B4F2024	06/20/2024	06/21/2024	
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SAR by 20B Saturated Paste

SAR	3.91		0.0100	SAR	1	B4F2017	06/20/2024	06/21/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.697		0.00500	mmhos/cm	1	B4F2024	06/20/2024	06/21/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.76		0.255	mg/kg	10	B4F2019	06/20/2024	06/21/2024	
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 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

WH01-FS-01@6.5'
6/19/2024 10:56:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406568-01 (Soil)

Table 915 metals by EPA 6020B

Barium	959		8.81	mg/kg	10	B4F2019	06/20/2024	06/21/2024	
Cadmium	0.166		0.0881	"	"	"	"	"	
Copper	11.7		8.81	"	"	"	"	"	
Lead	8.08		0.881	"	"	"	"	"	
Nickel	8.13		0.881	"	"	"	"	"	
Selenium	ND		0.229	"	"	"	"	"	Ua
Silver	ND		0.0881	"	"	"	"	"	Ua
Zinc	47.3		32.6	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.172	0.121	0.302	mg/kg dry	1	2634505	07/01/2024	07/02/2024	J
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

WH02-FS-01@6.5'
6/19/2024 11:09:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406568-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.630		0.100	mg/L	1	B4F2012	06/20/2024	06/21/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	799		25.0	mg/kg	1	B4F2031	06/20/2024	06/26/2024	
Residual Range Organics (C28-C40)	252		100	"	"	"	"	"	

Surrogate: o-Terphenyl	81.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4F2144	06/21/2024	06/22/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	0.275		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.5 %		70-130			"	"	"	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	

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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

WH02-FS-01@6.5'
6/19/2024 11:09:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406568-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	98.5 %		70-130			B4F21 44	06/21/2024	06/22/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	2.75	0.499	meq/L	10	[CALC]		06/20/2024	06/21/2024	
Magnesium	1.10	0.823	"	"	"	"	"	"	
Sodium	7.46	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.066	0.002	mg/kg	1	B4F2033		06/20/2024	06/22/2024	
2-Methylnaphthalene	0.090	0.002	"	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Fluorene	0.033	0.020	"	"	"	"	"	"	

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 Wheat Ridge CO 80033

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 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

WH02-FS-01@6.5'
6/19/2024 11:09:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406568-02 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4F2033	06/20/2024	06/22/2024	Ua
Naphthalene	0.007		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	108 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	98.1 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	111 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.93			pH Units	1	B4F2024	06/20/2024	06/21/2024	
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SAR by 20B Saturated Paste

SAR	5.38		0.0100	SAR	1	B4F2017	06/20/2024	06/21/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.28		0.00500	mmhos/cm	1	B4F2024	06/20/2024	06/21/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.16		0.286	mg/kg	10	B4F2019	06/20/2024	06/21/2024	
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WH02-FS-01@6.5'
6/19/2024 11:09:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406568-02 (Soil)

Table 915 metals by EPA 6020B

Barium	3950		9.85	mg/kg	10	B4F2019	06/20/2024	06/21/2024	
Cadmium	0.164		0.0985	"	"	"	"	"	
Copper	15.0		9.85	"	"	"	"	"	
Lead	8.19		0.985	"	"	"	"	"	
Nickel	8.01		0.985	"	"	"	"	"	
Selenium	ND		0.256	"	"	"	"	"	Ua
Silver	ND		0.0985	"	"	"	"	"	Ua
Zinc	89.0		36.4	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.179	0.127	0.316	mg/kg dry	1	2634505	07/01/2024	07/02/2024	J
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Jen Pellegrini For Jordan A. Bynon, Project Manager

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 8000 W 44th Ave
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David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

WH03-FS-01@6.5'
6/19/2024 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406568-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.729		0.100	mg/L	1	B4F2012	06/20/2024	06/21/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	31.4		25.0	mg/kg	1	B4F2031	06/20/2024	06/26/2024	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	84.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4F2144	06/21/2024	06/22/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	99.3 %		70-130			"	"	"	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	

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WH03-FS-01@6.5'
6/19/2024 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406568-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	98.8 %	70-130				B4F21 44	06/21/2024	06/22/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.816	0.499	meq/L	10	[CALC]		06/20/2024	06/21/2024	
Magnesium	ND	0.823	"	"	"	"	"	"	
Sodium	3.23	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.002	0.002	mg/kg	1	B4F2033		06/20/2024	06/22/2024	
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

WH03-FS-01@6.5'
6/19/2024 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406568-03 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4F2033	06/20/2024	06/22/2024	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	89.0 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	93.6 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	94.2 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.58			pH Units	1	B4F2024	06/20/2024	06/21/2024	
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SAR by 20B Saturated Paste

SAR	3.99		0.0100	SAR	1	B4F2017	06/20/2024	06/21/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.534		0.00500	mmhos/cm	1	B4F2024	06/20/2024	06/21/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.64		0.277	mg/kg	10	B4F2019	06/20/2024	06/21/2024	
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Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

WH03-FS-01@6.5'
6/19/2024 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406568-03 (Soil)

Table 915 metals by EPA 6020B

Barium	368		9.57	mg/kg	10	B4F2019	06/20/2024	06/21/2024	
Cadmium	0.749		0.0957	"	"	"	"	"	
Copper	ND		9.57	"	"	"	"	"	Ua
Lead	9.51		0.957	"	"	"	"	"	
Nickel	8.67		0.957	"	"	"	"	"	
Selenium	ND		0.249	"	"	"	"	"	Ua
Silver	ND		0.0957	"	"	"	"	"	Ua
Zinc	52.3		35.4	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.271	0.160	0.399	mg/kg dry	1	2634505	07/01/2024	07/02/2024	J
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

WH04-FS-01@6.5'
6/19/2024 11:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406568-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.544		0.0988	mg/L	1	B4F2012	06/20/2024	06/21/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4F2032	06/20/2024	06/25/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	90.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4F2144	06/21/2024	06/22/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	97.9 %		70-130			"	"	"	
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

WH04-FS-01@6.5'
6/19/2024 11:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406568-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B4F21 44	06/21/2024	06/22/2024	
Surrogate: 4-Bromofluorobenzene	98.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.14		0.499	meq/L	10	[CALC]	06/20/2024	06/21/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.48		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4F2033	06/20/2024	06/22/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

WH04-FS-01@6.5'
6/19/2024 11:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406568-04 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4F2033	06/20/2024	06/22/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	100 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	109 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.54			pH Units	1	B4F2024	06/20/2024	06/21/2024	
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SAR by 20B Saturated Paste

SAR	4.06		0.0100	SAR	1	B4F2017	06/20/2024	06/21/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.596		0.00500	mmhos/cm	1	B4F2024	06/20/2024	06/21/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

WH04-FS-01@6.5'
6/19/2024 11:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406568-04 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.38		0.266	mg/kg	10	B4F2019	06/20/2024	06/21/2024	
Barium	645		9.18	"	"	"	"	"	
Cadmium	0.129		0.0918	"	"	"	"	"	
Copper	9.43		9.18	"	"	"	"	"	
Lead	6.59		0.918	"	"	"	"	"	
Nickel	6.22		0.918	"	"	"	"	"	
Selenium	ND		0.239	"	"	"	"	"	Ua
Silver	ND		0.0918	"	"	"	"	"	Ua
Zinc	47.3		34.0	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.104	0.0911	0.228	mg/kg dry	1	2634505	07/01/2024	07/02/2024	J
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

WH05-FS-01@6.5'
6/19/2024 12:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406568-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.609		0.0994	mg/L	1	B4F2012	06/20/2024	06/21/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	31.6		25.0	mg/kg	1	B4F2032	06/20/2024	06/25/2024	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	89.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4F2144	06/21/2024	06/22/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	98.2 %		70-130			"	"	"	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

WH05-FS-01@6.5'
6/19/2024 12:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406568-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	97.3 %		70-130			B4F21 44	06/21/2024	06/22/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	2.76	0.499	meq/L	10	[CALC]		06/20/2024	06/21/2024	
Magnesium	0.995	0.823	"	"	"	"	"	"	
Sodium	7.07	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.005	0.002	mg/kg	1	B4F2033		06/20/2024	06/22/2024	
2-Methylnaphthalene	0.005	0.002	"	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	"	Ua

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 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
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WH05-FS-01@6.5'
6/19/2024 12:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406568-05 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4F2033	06/20/2024	06/22/2024	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	109 %		60-130			"	"	"	
Surrogate: Anthracene-d10	93.5 %		60-130			"	"	"	
Surrogate: Pyrene-d10	94.1 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.51			pH Units	1	B4F2024	06/20/2024	06/21/2024	
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SAR by 20B Saturated Paste

SAR	5.16		0.0100	SAR	1	B4F2017	06/20/2024	06/21/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.22		0.00500	mmhos/cm	1	B4F2024	06/20/2024	06/21/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.86		0.266	mg/kg	10	B4F2019	06/20/2024	06/21/2024	
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Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

WH05-FS-01@6.5'
6/19/2024 12:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406568-05 (Soil)

Table 915 metals by EPA 6020B

Barium	888		9.18	mg/kg	10	B4F2019	06/20/2024	06/21/2024	
Cadmium	0.109		0.0918	"	"	"	"	"	
Copper	ND		9.18	"	"	"	"	"	Ua
Lead	5.38		0.918	"	"	"	"	"	
Nickel	5.71		0.918	"	"	"	"	"	
Selenium	ND		0.239	"	"	"	"	"	Ua
Silver	ND		0.0918	"	"	"	"	"	Ua
Zinc	ND		34.0	"	"	"	"	"	Ua

Total Metals 7196A

Hexavalent Chromium	ND	0.127	0.318	mg/kg dry	1	2634505	07/01/2024	07/02/2024	U
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

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 B4F2031 - EPA 3550B										
Blank (B4F2031-BLK1)										
					Prepared: 06/20/2024 Analyzed: 06/25/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	22		"	24.9		88.7	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

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 B4F2031 - EPA 3550B

LCS (B4F2031-BS1)

Prepared: 06/20/2024 Analyzed: 06/26/2024

Diesel (C10-C28)	931	50.0	mg/kg	1000		93.1	70-130			
Residual Range Organics (C28-C40)	828	200	"	1000		82.8	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

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 B4F2031 - EPA 3550B

Matrix Spike (B4F2031-MS1)	Source: Y406534-01			Prepared: 06/20/2024 Analyzed: 06/26/2024						
Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	70-130			
Residual Range Organics (C28-C40)	953	200	"	1000	ND	95.3	70-130			
Surrogate: o-Terphenyl	49		"	49.8		97.6	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

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 B4F2031 - EPA 3550B										
Matrix Spike Dup (B4F2031-MSD1)					Source: Y406534-01					Prepared: 06/20/2024 Analyzed: 06/26/2024
Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	70-130	2.21	35	
Residual Range Organics (C28-C40)	965	200	"	1000	ND	96.5	70-130	1.32	35	
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

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 B4F2032 - EPA 3550B										
Blank (B4F2032-BLK1)										
					Prepared: 06/20/2024 Analyzed: 06/25/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	25		"	24.9		99.4	50-150			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

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 B4F2032 - EPA 3550B

LCS (B4F2032-BS1)

Prepared: 06/20/2024 Analyzed: 06/25/2024

Diesel (C10-C28)	922	50.0	mg/kg	1000		92.2	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	70-130			
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

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 B4F2032 - EPA 3550B										
Matrix Spike (B4F2032-MS1)		Source: Y406552-01			Prepared: 06/20/2024 Analyzed: 06/25/2024					
Diesel (C10-C28)	4210	50.0	mg/kg	1000	2610	159	70-130			QM-07
Residual Range Organics (C28-C40)	1120	200	"	1000	ND	112	70-130			
Surrogate: o-Terphenyl	47		"	49.8		95.2	50-150			

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David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

Extractable Petroleum Hydrocarbons by 8015D - 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 B4F2032 - EPA 3550B

Matrix Spike Dup (B4F2032-MSD1)	Source: Y406552-01			Prepared: 06/20/2024 Analyzed: 06/25/2024						
Diesel (C10-C28)	3370	50.0	mg/kg	1000	2610	75.6	70-130	22.1	35	
Residual Range Organics (C28-C40)	980	200	"	1000	ND	98.0	70-130	13.3	35	
Surrogate: o-Terphenyl	26		"	49.8		52.0	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 B4F2144 - EPA 5030 (soil)

Blank (B4F2144-BLK1)

Prepared: 06/21/2024 Analyzed: 06/22/2024

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	0.12		"	0.125	95.7		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.9		70-130			

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David Castro
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 Project: Bayswater - WAAG North Offsite WHs

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 B4F2144 - EPA 5030 (soil)

LCS (B4F2144-BS1)

Prepared: 06/21/2024 Analyzed: 06/22/2024

1,2,4-Trimethylbenzene	0.0986	0.00200	mg/kg	0.100		98.6	70-130			
1,3,5-Trimethylbenzene	0.0989	0.00200	"	0.100		98.9	70-130			
Benzene	0.0885	0.00200	"	0.100		88.5	70-130			
Ethylbenzene	0.0989	0.00200	"	0.100		98.9	70-130			
Naphthalene	0.0959	0.00380	"	0.100		95.9	70-130			
Toluene	0.0928	0.00200	"	0.100		92.8	70-130			
o-Xylene	0.0961	0.00200	"	0.100		96.1	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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David Castro
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 Project: Bayswater - WAAG North Offsite WHs

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 B4F2144 - EPA 5030 (soil)

Matrix Spike (B4F2144-MS1)	Source: Y406565-01			Prepared: 06/21/2024 Analyzed: 06/22/2024						
1,2,4-Trimethylbenzene	0.0843	0.00200	mg/kg	0.100	ND	84.3	70-130			
1,3,5-Trimethylbenzene	0.0840	0.00200	"	0.100	ND	84.0	70-130			
Benzene	0.0746	0.00200	"	0.100	ND	74.6	70-130			
Ethylbenzene	0.0850	0.00200	"	0.100	ND	85.0	70-130			
Naphthalene	0.0837	0.00380	"	0.100	ND	83.7	70-130			
Toluene	0.0804	0.00200	"	0.100	ND	80.4	70-130			
o-Xylene	0.0837	0.00200	"	0.100	ND	83.7	70-130			
m,p-Xylene	0.172	0.00400	"	0.200	ND	86.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

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 B4F2144 - EPA 5030 (soil)

Matrix Spike Dup (B4F2144-MSD1)	Source: Y406565-01			Prepared: 06/21/2024 Analyzed: 06/22/2024						
1,2,4-Trimethylbenzene	0.0836	0.00200	mg/kg	0.100	ND	83.6	70-130	0.834	20	
1,3,5-Trimethylbenzene	0.0838	0.00200	"	0.100	ND	83.8	70-130	0.238	20	
Benzene	0.0740	0.00200	"	0.100	ND	74.0	70-130	0.781	20	
Ethylbenzene	0.0849	0.00200	"	0.100	ND	84.9	70-130	0.141	20	
Naphthalene	0.0820	0.00380	"	0.100	ND	82.0	70-130	2.10	20	
Toluene	0.0800	0.00200	"	0.100	ND	80.0	70-130	0.499	20	
o-Xylene	0.0834	0.00200	"	0.100	ND	83.4	70-130	0.383	20	
m,p-Xylene	0.172	0.00400	"	0.200	ND	85.9	70-130	0.407	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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David Castro
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 Project: Bayswater - WAAG North Offsite WHs

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F2019 - EPA 3050B

Blank (B4F2019-BLK1)

Prepared: 06/20/2024 Analyzed: 06/21/2024

Lead	ND	1.00	mg/kg							Ua
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LCS (B4F2019-BS1)

Prepared: 06/20/2024 Analyzed: 06/21/2024

Lead	5.98	1.00	mg/kg	5.00		120	80-120			
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Matrix Spike (B4F2019-MS1)

Source: Y406565-01

Prepared: 06/20/2024 Analyzed: 06/21/2024

Lead	11.4	0.971	mg/kg	4.86	6.53	100	75-125			
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Matrix Spike Dup (B4F2019-MSD1)

Source: Y406565-01

Prepared: 06/20/2024 Analyzed: 06/21/2024

Lead	11.6	0.957	mg/kg	4.78	6.53	106	75-125	1.66	20	
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Jen Pellegrini For Jordan A. Bynon, Project Manager

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David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F2033 - EPA 3580

Blank (B4F2033-BLK1)

Prepared: 06/20/2024 Analyzed: 06/22/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	180		"	200		88.9	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		112	60-130			

LCS (B4F2033-BS1)

Prepared: 06/20/2024 Analyzed: 06/24/2024

1-Methylnaphthalene	0.207	0.002	mg/kg	0.200		103	70-130			
2-Methylnaphthalene	0.198	0.002	"	0.200		98.9	70-130			
Acenaphthene	0.203	0.020	"	0.200		101	70-130			
Anthracene	0.177	0.020	"	0.200		88.3	70-130			

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David Castro
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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F2033 - EPA 3580

LCS (B4F2033-BS1)

Prepared: 06/20/2024 Analyzed: 06/24/2024

Benzo (a) anthracene	0.205	0.005	mg/kg	0.200		103	70-130			
Benzo (a) pyrene	0.162	0.020	"	0.200		81.1	70-130			
Benzo (b) fluoranthene	0.209	0.020	"	0.200		104	70-130			
Benzo (g,h,i) perylene	0.208	0.020	"	0.200		104	70-130			
Benzo (k) fluoranthene	0.171	0.020	"	0.200		85.4	70-130			
Chrysene	0.189	0.020	"	0.200		94.5	70-130			
Dibenz (a,h) anthracene	0.232	0.020	"	0.200		116	70-130			
Fluoranthene	0.196	0.020	"	0.200		97.8	70-130			
Fluorene	0.176	0.020	"	0.200		88.1	70-130			
Indeno (1,2,3-cd) pyrene	0.239	0.020	"	0.200		120	70-130			
Naphthalene	0.193	0.002	"	0.200		96.7	70-130			
Phenanthrene	0.197	0.020	"	0.200		98.7	70-130			
Pyrene	0.182	0.020	"	0.200		91.2	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.4	60-130			
Surrogate: Anthracene-d10	190		"	200		94.6	60-130			
Surrogate: Pyrene-d10	190		"	200		93.6	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike (B4F2033-MS1)

Source: Y406534-01

Prepared: 06/20/2024 Analyzed: 06/24/2024

1-Methylnaphthalene	0.179	0.002	mg/kg	0.200	0.003	88.1	70-130			
2-Methylnaphthalene	0.185	0.002	"	0.200	0.002	91.5	70-130			
Acenaphthene	0.185	0.020	"	0.200	0.0008	92.0	70-130			
Anthracene	0.177	0.020	"	0.200	ND	88.3	70-130			
Benzo (a) anthracene	0.176	0.005	"	0.200	0.002	87.0	70-130			
Benzo (a) pyrene	0.160	0.020	"	0.200	0.003	78.6	70-130			
Benzo (b) fluoranthene	0.203	0.020	"	0.200	0.003	99.7	70-130			
Benzo (g,h,i) perylene	0.202	0.020	"	0.200	0.002	99.8	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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David Castro
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 Project: Bayswater - WAAG North Offsite WHs

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F2033 - EPA 3580

Matrix Spike (B4F2033-MS1)		Source: Y406534-01			Prepared: 06/20/2024 Analyzed: 06/24/2024					
Benzo (k) fluoranthene	0.182	0.020	mg/kg	0.200	0.002	89.9	70-130			
Chrysene	0.191	0.020	"	0.200	0.003	93.7	70-130			
Dibenz (a,h) anthracene	0.242	0.020	"	0.200	0.005	118	70-130			
Fluoranthene	0.175	0.020	"	0.200	0.0007	87.1	70-130			
Fluorene	0.167	0.020	"	0.200	0.003	82.2	70-130			
Indeno (1,2,3-cd) pyrene	0.232	0.020	"	0.200	0.004	114	70-130			
Naphthalene	0.178	0.002	"	0.200	ND	89.1	70-130			
Phenanthrene	0.197	0.020	"	0.200	0.002	97.5	70-130			
Pyrene	0.161	0.020	"	0.200	0.001	79.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.3	60-130			
Surrogate: Anthracene-d10	190		"	200		95.6	60-130			
Surrogate: Pyrene-d10	180		"	200		87.7	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

Matrix Spike Dup (B4F2033-MSD1)		Source: Y406534-01			Prepared: 06/20/2024 Analyzed: 06/22/2024					
1-Methylnaphthalene	0.184	0.002	mg/kg	0.200	0.003	90.3	70-130	2.49	20	
2-Methylnaphthalene	0.190	0.002	"	0.200	0.002	93.9	70-130	2.58	20	
Acenaphthene	0.201	0.020	"	0.200	0.0008	100	70-130	8.37	20	
Anthracene	0.210	0.020	"	0.200	ND	105	70-130	17.3	20	
Benzo (a) anthracene	0.206	0.005	"	0.200	0.002	102	70-130	15.3	20	
Benzo (a) pyrene	0.206	0.020	"	0.200	0.003	101	70-130	24.9	20	QR-02
Benzo (b) fluoranthene	0.230	0.020	"	0.200	0.003	113	70-130	12.6	20	
Benzo (g,h,i) perylene	0.242	0.020	"	0.200	0.002	120	70-130	18.4	20	
Benzo (k) fluoranthene	0.188	0.020	"	0.200	0.002	92.9	70-130	3.19	20	
Chrysene	0.211	0.020	"	0.200	0.003	104	70-130	10.1	20	
Dibenz (a,h) anthracene	0.256	0.020	"	0.200	0.005	126	70-130	5.66	20	
Fluoranthene	0.213	0.020	"	0.200	0.0007	106	70-130	19.7	20	

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F2033 - EPA 3580

Matrix Spike Dup (B4F2033-MSD1)	Source: Y406534-01			Prepared: 06/20/2024 Analyzed: 06/22/2024						
Fluorene	0.189	0.020	mg/kg	0.200	0.003	93.1	70-130	12.3	20	
Indeno (1,2,3-cd) pyrene	0.233	0.020	"	0.200	0.004	114	70-130	0.337	20	
Naphthalene	0.201	0.002	"	0.200	ND	100	70-130	11.9	20	
Phenanthrene	0.210	0.020	"	0.200	0.002	104	70-130	6.62	20	
Pyrene	0.196	0.020	"	0.200	0.001	97.2	70-130	19.8	20	
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	190		"	200		96.1	60-130			
Surrogate: Pyrene-d10	200		"	200		97.6	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		112	60-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Bayswater - WAAG North Offsite WHs

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 B4F2012 - DTPA Sorbitol Preparation

Blank (B4F2012-BLK1)

Prepared: 06/20/2024 Analyzed: 06/21/2024

Boron	ND	0.100	mg/L							Ua
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Duplicate (B4F2012-DUP1)

Source: Y406565-07

Prepared: 06/20/2024 Analyzed: 06/21/2024

Boron	0.275	0.0996	mg/L		0.276			0.230	50	
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Batch B4F2017 - Saturated Paste Metals

Blank (B4F2017-BLK1)

Prepared: 06/20/2024 Analyzed: 06/21/2024

SAR	ND	0.0100	SAR							Ua
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Calcium PPM	ND	10.0	mg/L							Ua
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Magnesium PPM	ND	10.0	"							Ua
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Sodium PPM	ND	10.0	"							Ua
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Duplicate (B4F2017-DUP1)

Source: Y406551-22

Prepared: 06/20/2024 Analyzed: 06/21/2024

SAR	ND	0.0100	SAR		6.64				200	Ua
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Calcium PPM	16.8	10.0	mg/L		17.4			3.34	50	
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Magnesium PPM	6.84	10.0	"		7.01			2.45	50	Ua
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Sodium PPM	125	10.0	"		130			3.39	50	
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 Wheat Ridge CO 80033

David Castro
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 Project: Bayswater - WAAG North Offsite WHs

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F2024 - Saturated Paste pH/EC										
Blank (B4F2024-BLK1)					Prepared: 06/20/2024 Analyzed: 06/21/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							Ua
Duplicate (B4F2024-DUP1)					Source: Y406551-22 Prepared: 06/20/2024 Analyzed: 06/21/2024					
pH	8.51		pH Units		8.50			0.118	25	
Specific Conductance (EC)	0.973	0.00500	mmhos/cm		0.971			0.268	25	

Origins Laboratory, Inc.



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 Project: Bayswater - WAAG North Offsite WHs

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2634505 - SW846 3060A										
BLANK (1205777573-BLK)					Prepared: 07/01/2024 Analyzed: 07/02/2024					
Hexavalent Chromium	ND	0.366	mg/kg				-			U
LCS (1205777574-BKS)					Prepared: 07/01/2024 Analyzed: 07/02/2024					
Hexavalent Chromium	3.85	0.390	mg/kg	3.90		98.5	80-120			
DUP (1205777575 D)					Source: 672602001 Prepared: 07/01/2024 Analyzed: 07/02/2024					
Hexavalent Chromium	0.166	0.364	mg/kg dry		0.207		0-50	21.6	50	J
MS (1205777576 S)					Source: 672602001 Prepared: 07/01/2024 Analyzed: 07/02/2024					
Hexavalent Chromium	2.10	0.364	mg/kg dry	3.64	0.207	51.9	75-125			
DUP (1205777577 D)					Source: 672602011 Prepared: 07/01/2024 Analyzed: 07/02/2024					
Hexavalent Chromium	ND	0.338	mg/kg dry		<0.135		0-50	N/A	50	U
MS (1205777578 S)					Source: 672602011 Prepared: 07/01/2024 Analyzed: 07/02/2024					
Hexavalent Chromium	1.98	0.338	mg/kg dry	3.38	<0.135	56.4	75-125			
ILCS (1205777579-ILCS)					Prepared: 07/01/2024 Analyzed: 07/02/2024					
Hexavalent Chromium	7.70	0.369	mg/kg	7.43		104	80-120			

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David Castro
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Project: Bayswater - WAAG North Offsite WHs

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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 Greater than the detection limit but less than the reporting 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.

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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