



May 13, 2021

St. Croix Operating, Inc.

Andy Peterson

P.O. Box 13799

Denver CO 80201

Project Name - P&A Cut & Cap

Project Number - [none]

Attached are your analytical results for P&A Cut & Cap received by Origins Laboratory, Inc. May 06, 2021. This project is associated with Origins project number Y105088-01.

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

St. Croix Operating, Inc.

P.O. Box 13799

Denver CO 80201

Andy Peterson

Project Number: [none]

Project: P&A Cut & Cap

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Yakutat 31-33349 Wellhead	Y105088-01	Soil	May 5, 2021 11:15	05/06/2021 10:45
Hickert 33-20349 Wellhead	Y105088-02	Soil	May 5, 2021 12:30	05/06/2021 10:45
Daisy 21C-29349 Wellhead	Y105088-03	Soil	May 5, 2021 13:50	05/06/2021 10:45
Mickert 41C-18349 Wellhead	Y105088-04	Soil	May 5, 2021 15:45	05/06/2021 10:45

Origins Laboratory, Inc.



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St. Croix Operating, Inc.
P.O. Box 13799
Denver CO 80201

Andy Peterson
Project Number: [none]
Project: P&A Cut & Cap

ORIGINS
LABORATORY, INC

www.originslaboratory.com

410608

page 1 of 1

Client: ST CROIX OPERATING INC
Address: PO BOX 13799
DENVER, CO 80201
Telephone Number: 303 489 9198
Email Address: STCROIX@AOL.COM
Project Manager: ANDY PETERSON
Project Name: P&A CUT&CAP
Project Number: 410608
Samples Collected By: RYAN DOZANOS
Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	At Summa			Other
VAKUTAR 61-55349 WEATHER	5/6/21	1115	2	X								X	ELPH SHR BY SAT. PASTE
HICKERT 33-20349 WEATHER	5/6/21	1230	2	X								X	"
PAISY 21C-27349 WEATHER	5/5/21	1350	2	X								X	"
HICKERT 41C-18349 WEATHER	5/5/21	1545	2	X								X	"
Sample ID revision													
per Ryans phone													
call on 5/6 pm													
Relinquished By: <u>Ryan Dozanos</u>	Date: <u>5/6/2021</u>	Time: <u>1045</u>	Received By: <u>[Signature]</u>	Date: <u>5/6/21</u>	Time: <u>1045</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard							

Temp Received: 41 Date Results Needed

Origins Laboratory, Inc.

Jordan A. Merrill

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Andy Peterson

Project Number: [none]

Project: P&A Cut & Cap

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: Y105084

Client: St Croix Op

Client Project ID: P&A Cut & Cap

Checklist Completed by: jm

Shipped Via: HTD

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

Date/time completed: 5-16-21

Airbill #: N/A

Matrix(s) Received: (Check all that apply): X Soil/Solid

Water

Other:

Cooler Number/Temperature: 1 4-1 °C

°C

(Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<u>X</u>			
Is there ice present (document if blue ice is used)	<u>X</u>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<u>X</u>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<u>X</u>		
Were all samples received intact ⁽¹⁾ ?	<u>X</u>			
Was adequate sample volume provided ⁽¹⁾ ?	<u>X</u>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<u>X</u>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<u>X</u>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u>X</u>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u>X</u>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<u>X</u>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<u>X</u>	
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)			<u>X</u>	
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) jm

5-7-21
Date/Time Reviewed

Origins Laboratory, Inc.

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St. Croix Operating, Inc.

P.O. Box 13799

Denver CO 80201

Andy Peterson

Project Number: [none]

Project: P&A Cut & Cap

Yakutat 31-33349 Wellhead

5/5/2021 11:15:00AM

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

Y105088-01 (Soil)

Boron (Sorbitol)

Boron	0.2		mg/L	1	[none]	05/07/2021	05/12/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1E0609	05/06/2021	05/06/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	84.3 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1E0608	05/06/2021	05/06/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.6 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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P.O. Box 13799

Denver CO 80201

Andy Peterson

Project Number: [none]

Project: P&A Cut & Cap

Yakutat 31-33349 Wellhead

5/5/2021 11:15:00AM

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

Y105088-01 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	96.5 %	70-130	B1E0608	05/06/2021	05/06/2021
Surrogate: 4-Bromofluorobenzene	92.0 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	2.50	meq/L	1	[CALC]	05/07/2021	05/10/2021
Magnesium	0.440	"	"	"	"	"
Sodium	7.68	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L551924	05/10/2021	05/10/2021
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	ND	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"

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Andy Peterson

Project Number: [none]

Project: P&A Cut & Cap

Yakutat 31-33349 Wellhead

5/5/2021 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y105088-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L551924	05/10/2021	05/10/2021
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	46.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	52.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	47.9 %	29-110	"	"	"

pH in Soil by EPA 9045D

pH	7.92	pH Units	1	B1E0714	05/07/2021	05/10/2021
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SAR by 20B Saturated Paste

SAR	6.35	SAR	1	B1E0720	05/07/2021	05/10/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.23	0.00500	mmhos/cm	1	B1E0721	05/07/2021	05/10/2021
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P.O. Box 13799

Denver CO 80201

Andy Peterson

Project Number: [none]

Project: P&A Cut & Cap

Hickert 33-20349 Wellhead

5/5/2021 12:30:00PM

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

Y105088-02 (Soil)

Boron (Sorbitol)

Boron	0.1		mg/L	1	[none]	05/07/2021	05/12/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1E0609	05/06/2021	05/06/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.4 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1E0608	05/06/2021	05/06/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.7 %	70-130			"	"	"	
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P.O. Box 13799

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Andy Peterson

Project Number: [none]

Project: P&A Cut & Cap

Hickert 33-20349 Wellhead

5/5/2021 12:30:00PM

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

Y105088-02 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	95.8 %	70-130	B1E0608	05/06/2021	05/06/2021
Surrogate: 4-Bromofluorobenzene	92.2 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	1.92	meq/L	1	[CALC]	05/07/2021	05/10/2021
Magnesium	0.221	"	"	"	"	"
Sodium	1.28	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L551924	05/10/2021	05/10/2021
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	ND	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"

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P.O. Box 13799

Denver CO 80201

Andy Peterson

Project Number: [none]

Project: P&A Cut & Cap

Hickert 33-20349 Wellhead

5/5/2021 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y105088-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L551924	05/10/2021	05/10/2021
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	50 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	55.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	51.8 %	29-110	"	"	"

pH in Soil by EPA 9045D

pH	7.29	pH Units	1	B1E0714	05/07/2021	05/10/2021
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SAR by 20B Saturated Paste

SAR	1.24	SAR	1	B1E0720	05/07/2021	05/10/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.386	0.00500	mmhos/cm	1	B1E0721	05/07/2021	05/10/2021
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P.O. Box 13799

Denver CO 80201

Andy Peterson

Project Number: [none]

Project: P&A Cut & Cap

Daisv 21C-29349 Wellhead

5/5/2021 1:50:00PM

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

Y105088-03 (Soil)

Boron (Sorbitol)

Boron	0.2		mg/L	1	[none]	05/07/2021	05/12/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1E0609	05/06/2021	05/06/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	79.1 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1E0608	05/06/2021	05/06/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.3 %	70-130			"	"	"	
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P.O. Box 13799

Denver CO 80201

Andy Peterson

Project Number: [none]

Project: P&A Cut & Cap

Daisv 21C-29349 Wellhead

5/5/2021 1:50:00PM

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

Y105088-03 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	96.7 %	70-130	B1E0608	05/06/2021	05/06/2021
Surrogate: 4-Bromofluorobenzene	92.1 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	5.28	meq/L	1	[CALC]	05/07/2021	05/10/2021
Magnesium	1.62	"	"	"	"	"
Sodium	19.7	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L551924	05/10/2021	05/10/2021
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	ND	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"

Origins Laboratory, Inc.

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St. Croix Operating, Inc.

P.O. Box 13799

Denver CO 80201

Andy Peterson

Project Number: [none]

Project: P&A Cut & Cap

Daisv 21C-29349 Wellhead

5/5/2021 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y105088-03 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L551924	05/10/2021	05/10/2021
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	47 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	54.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	49.1 %	29-110	"	"	"

pH in Soil by EPA 9045D

pH	7.44	pH Units	1	B1E0714	05/07/2021	05/10/2021
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SAR by 20B Saturated Paste

SAR	10.6	SAR	1	B1E0720	05/07/2021	05/10/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	2.78	0.00500	mmhos/cm	1	B1E0721	05/07/2021	05/10/2021
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St. Croix Operating, Inc.

P.O. Box 13799

Denver CO 80201

Andy Peterson

Project Number: [none]

Project: P&A Cut & Cap

Mickert 41C-18349 Wellhead

5/5/2021 3:45:00PM

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

Y105088-04 (Soil)

Boron (Sorbitol)

Boron	0.3			mg/L	1	[none]	05/07/2021	05/12/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		50.0	mg/kg	1	B1E0609	05/06/2021	05/06/2021	U
Residual Range Organics (C28-C40)	ND		200	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.9 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1E0608	05/06/2021	05/06/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.4 %		70-130			"	"	"	
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St. Croix Operating, Inc.

P.O. Box 13799

Denver CO 80201

Andy Peterson

Project Number: [none]

Project: P&A Cut & Cap

Mickert 41C-18349 Wellhead

5/5/2021 3:45:00PM

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

Y105088-04 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	96.7 %	70-130	B1E0608	05/06/2021	05/06/2021
Surrogate: 4-Bromofluorobenzene	91.9 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	0.716	meq/L	1	[CALC]	05/07/2021	05/10/2021
Magnesium	0.269	"	"	"	"	"
Sodium	6.98	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L551924	05/10/2021	05/10/2021
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	ND	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"

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P.O. Box 13799

Denver CO 80201

Andy Peterson

Project Number: [none]

Project: P&A Cut & Cap

Mickert 41C-18349 Wellhead

5/5/2021 3:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y105088-04 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L551924	05/10/2021	05/10/2021
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	58.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	70.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	58.3 %	29-110	"	"	"

pH in Soil by EPA 9045D

pH	7.95	pH Units	1	B1E0714	05/07/2021	05/10/2021
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SAR by 20B Saturated Paste

SAR	9.90	SAR	1	B1E0720	05/07/2021	05/10/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.902	0.00500	mmhos/cm	1	B1E0721	05/07/2021	05/10/2021
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P.O. Box 13799

Denver CO 80201

Andy Peterson

Project Number: [none]

Project: P&A Cut & Cap

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 B1E0608 - EPA 5030 (soil)

Blank (B1E0608-BLK1)

Prepared: 05/06/2021 Analyzed: 05/06/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	57		ug/L	62.5		90.7	70-130			
Surrogate: Toluene-d8	61		"	62.5		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.1	70-130			

Origins Laboratory, Inc.



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St. Croix Operating, Inc.

P.O. Box 13799

Denver CO 80201

Andy Peterson

Project Number: [none]

Project: P&A Cut & Cap

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 B1E0608 - EPA 5030 (soil)

LCS (B1E0608-BS1)

Prepared: 05/06/2021 Analyzed: 05/06/2021

1,2,4-Trimethylbenzene	0.0533	0.00200	mg/kg	0.0500		107	70-130			
Naphthalene	0.0585	0.0100	"	0.0500		117	70-130			
1,3,5-Trimethylbenzene	0.0526	0.00200	"	0.0500		105	70-130			
Benzene	0.0469	0.00200	"	0.0500		93.8	70-130			
Ethylbenzene	0.0479	0.00200	"	0.0500		95.7	70-130			
m,p-Xylene	0.0969	0.00400	"	0.100		96.9	70-130			
o-Xylene	0.0505	0.00200	"	0.0500		101	70-130			
Toluene	0.0471	0.00200	"	0.0500		94.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	55		ug/L	62.5		87.9	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.4	70-130			

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P.O. Box 13799

Denver CO 80201

Andy Peterson

Project Number: [none]

Project: P&A Cut & Cap

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 B1E0608 - EPA 5030 (soil)

Matrix Spike (B1E0608-MS1)		Source: Y105088-01			Prepared: 05/06/2021 Analyzed: 05/06/2021					
1,2,4-Trimethylbenzene	0.0539	0.00200	mg/kg	0.0500	ND	108	70-130			
Naphthalene	0.0587	0.0100	"	0.0500	ND	117	70-130			
1,3,5-Trimethylbenzene	0.0520	0.00200	"	0.0500	ND	104	70-130			
Benzene	0.0471	0.00200	"	0.0500	ND	94.2	70-130			
Ethylbenzene	0.0476	0.00200	"	0.0500	ND	95.3	70-130			
m,p-Xylene	0.0968	0.00400	"	0.100	ND	96.8	70-130			
o-Xylene	0.0506	0.00200	"	0.0500	ND	101	70-130			
Toluene	0.0474	0.00200	"	0.0500	ND	94.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		ug/L	62.5		90.7	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.5	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.2	70-130			

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Denver CO 80201

Andy Peterson

Project Number: [none]

Project: P&A Cut & Cap

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1E0608 - EPA 5030 (soil)										
Matrix Spike Dup (B1E0608-MSD1)		Source: Y105088-01			Prepared: 05/06/2021 Analyzed: 05/06/2021					
1,2,4-Trimethylbenzene	0.0524	0.00200	mg/kg	0.0500	ND	105	70-130	2.82	20	
Naphthalene	0.0582	0.0100	"	0.0500	ND	116	70-130	0.856	20	
1,3,5-Trimethylbenzene	0.0515	0.00200	"	0.0500	ND	103	70-130	1.08	20	
Benzene	0.0474	0.00200	"	0.0500	ND	94.7	70-130	0.593	20	
Ethylbenzene	0.0477	0.00200	"	0.0500	ND	95.4	70-130	0.0839	20	
m,p-Xylene	0.0959	0.00400	"	0.100	ND	95.9	70-130	0.934	20	
o-Xylene	0.0503	0.00200	"	0.0500	ND	101	70-130	0.753	20	
Toluene	0.0474	0.00200	"	0.0500	ND	94.9	70-130	0.127	20	
Surrogate: 1,2-Dichloroethane-d4	56		ug/L	62.5		89.3	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.9	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.5	70-130			

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P.O. Box 13799

Denver CO 80201

Andy Peterson

Project Number: [none]

Project: P&A Cut & Cap

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1E0609 - EPA 3550B										
Blank (B1E0609-BLK1)					Prepared: 05/06/2021 Analyzed: 05/06/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	25.0		83.3	50-150			

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Denver CO 80201

Andy Peterson

Project Number: [none]

Project: P&A Cut & Cap

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 B1E0609 - EPA 3550B

LCS (B1E0609-BS1)

Prepared: 05/06/2021 Analyzed: 05/06/2021

Diesel (C10-C28)	873	50.0	mg/kg	1000		87.3	70-130			
Residual Range Organics (C28-C40)	849	200	"	1000		84.9	70-130			
Surrogate: o-Terphenyl	41		"	50.0		82.8	50-150			

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P.O. Box 13799

Denver CO 80201

Andy Peterson

Project Number: [none]

Project: P&A Cut & Cap

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 B1E0609 - EPA 3550B

Matrix Spike (B1E0609-MS1)		Source: Y105088-01			Prepared: 05/06/2021 Analyzed: 05/06/2021					
Diesel (C10-C28)	871	50.0	mg/kg	1000	ND	87.1	70-130			
Residual Range Organics (C28-C40)	867	200	"	1000	49.6	81.8	70-130			
Surrogate: o-Terphenyl	46		"	50.0		92.8	50-150			

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P.O. Box 13799

Denver CO 80201

Andy Peterson

Project Number: [none]

Project: P&A Cut & Cap

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 B1E0609 - EPA 3550B

Matrix Spike Dup (B1E0609-MSD1)		Source: Y105088-01			Prepared: 05/06/2021 Analyzed: 05/06/2021					
Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	70-130	16.0	35	
Residual Range Organics (C28-C40)	1110	200	"	1000	49.6	106	70-130	24.5	35	
Surrogate: o-Terphenyl	46		"	50.0		91.9	50-150			

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P.O. Box 13799

Denver CO 80201

Andy Peterson

Project Number: [none]

Project: P&A Cut & Cap

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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Saturated Paste - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1E0714 - NO PREP

Duplicate (B1E0714-DUP1)

Source: Y105073-02

Prepared: 05/07/2021 Analyzed: 05/10/2021

pH	7.67	pH Units	6.47	17.0	25
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Batch B1E0721 - NO PREP

Blank (B1E0721-BLK1)

Prepared: 05/07/2021 Analyzed: 05/10/2021

Specific Conductance (EC)	0.00180	0.00500	mmhos/cm
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Duplicate (B1E0721-DUP1)

Source: Y105073-02

Prepared: 05/07/2021 Analyzed: 05/10/2021

Specific Conductance (EC)	0.269	0.00500	mmhos/cm	0.257	4.75	25
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P.O. Box 13799
Denver CO 80201

Andy Peterson
Project Number: [none]
Project: P&A Cut & Cap

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L551924 - 3550B

MSD (L 94877-MSD-L551924)		Source: 94877			Prepared: 05/10/2021 Analyzed: 05/10/2021					
Chrysene	0.0986	0.000256	mg/Kg	0.166	0.000511	59.3	30-130	2.4	30	
1-Methylnaphthalene	0.0879	0.00048	"	0.166	<0.000480	52.9	30-130	1.5	30	
2-Methylnaphthalene	0.0882	0.000542	"	0.166	<0.000542	53.1	30-130	2.5	30	
Acenaphthene	0.0866	0.000431	"	0.166	<0.000431	52.1	30-130	2.1	30	
Anthracene	0.0935	0.000426	"	0.166	<0.000426	56.3	30-130	4.6	30	
Benzo(a)anthracene	0.104	0.000441	"	0.166	<0.000441	62.6	30-130	6.5	30	
Pyrene	0.0974	0.000387	"	0.166	<0.000387	58.6	30-130	5.5	30	
Naphthalene	0.0827	0.000467	"	0.166	<0.000467	49.8	30-130	3.7	30	
Indeno(1,2,3-cd)pyrene	0.0961	0.000344	"	0.166	<0.000344	57.8	30-130	15.2	30	
Fluorene	0.0934	0.000501	"	0.166	<0.000501	56.2	30-130	2.8	30	
Fluoranthene	0.1	0.000529	"	0.166	<0.000529	60.2	30-130	4.8	30	
Dibenz(a,h)anthracene	0.0952	0.000279	"	0.166	<0.000279	57.3	30-130	16.2	30	
Benzo(b)fluoranthene	0.097	0.000138	"	0.166	0.000317	58.4	30-130	15.2	30	
Benzo(k)fluoranthene	0.0995	0.000486	"	0.166	<0.000486	59.9	30-130	7.2	30	
Benzo(a)pyrene	0.114	0.000133	"	0.166	0.000199	68.6	30-130	3.4	30	
Surrogate: 2-Fluorobiphenyl	48.3		"	0.331	162	48.3	33-115			
Surrogate: 4-Terphenyl-d14	56.4		"	0.331	200	56.4	33-122			
Surrogate: Nitrobenzene-d5	48.9		"	0.331	167	48.9	29-110			

MS (L 94877-MS-L551924)		Source: 94877			Prepared: 05/10/2021 Analyzed: 05/10/2021					
Benzo(a)pyrene	0.118	0.000133	mg/Kg	0.167	0.000199	70.6	30-130			
Chrysene	0.101	0.000256	"	0.167	0.000511	60.4	30-130			
Pyrene	0.103	0.000387	"	0.167	<0.000387	61.6	30-130			
Naphthalene	0.0859	0.000467	"	0.167	<0.000467	51.4	30-130			
Indeno(1,2,3-cd)pyrene	0.112	0.000344	"	0.167	<0.000344	67	30-130			
Fluorene	0.0961	0.000501	"	0.167	<0.000501	57.5	30-130			
Fluoranthene	0.105	0.000529	"	0.167	<0.000529	62.8	30-130			

Origins Laboratory, Inc.

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St. Croix Operating, Inc.
P.O. Box 13799
Denver CO 80201

Andy Peterson
Project Number: [none]
Project: P&A Cut & Cap

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L551924 - 3550B

MS (L 94877-MS-L551924)		Source: 94877			Prepared: 05/10/2021 Analyzed: 05/10/2021					
Dibenz(a,h)anthracene	0.112	0.000279	mg/Kg	0.167	<0.000279	67	30-130			
Benzo(b)fluoranthene	0.113	0.000138	"	0.167	0.000317	67.6	30-130			
Benzo(a)anthracene	0.111	0.000441	"	0.167	<0.000441	66.4	30-130			
Anthracene	0.098	0.000426	"	0.167	<0.000426	58.6	30-130			
Acenaphthene	0.0885	0.000431	"	0.167	<0.000431	52.9	30-130			
2-Methylnaphthalene	0.0905	0.000542	"	0.167	<0.000542	54.1	30-130			
Benzo(k)fluoranthene	0.107	0.000486	"	0.167	<0.000486	64	30-130			
1-Methylnaphthalene	0.0893	0.00048	"	0.167	<0.000480	53.4	30-130			
Surrogate: Nitrobenzene-d5	50.7		"	0.333	167	50.7	29-110			
Surrogate: 2-Fluorobiphenyl	48.6		"	0.333	162	48.6	33-115			
Surrogate: 4-Terphenyl-d14	58.5		"	0.333	200	58.5	33-122			

LCS (LCS-L551924)		Prepared: 05/10/2021 Analyzed: 05/10/2021								
Dibenz(a,h)anthracene	0.0979	0.000279	mg/Kg	0.167		58.6	30-130			
Fluoranthene	0.0996	0.000529	"	0.167		59.6	30-130			
Pyrene	0.097	0.000387	"	0.167		58	30-130			
Fluorene	0.0923	0.000501	"	0.167		55.2	30-130			
Indeno(1,2,3-cd)pyrene	0.0978	0.000344	"	0.167		58.5	30-130			
Chrysene	0.0973	0.000256	"	0.167		58.2	30-130			
Naphthalene	0.0844	0.000467	"	0.167		50.5	30-130			
Benzo(b)fluoranthene	0.101	0.000138	"	0.167		60.4	30-130			
Benzo(a)pyrene	0.113	0.000133	"	0.167		67.6	30-130			
Benzo(a)anthracene	0.102	0.000441	"	0.167		61	30-130			
Acenaphthene	0.0857	0.000431	"	0.167		51.3	30-130			
2-Methylnaphthalene	0.0877	0.000542	"	0.167		52.5	30-130			
1-Methylnaphthalene	0.0877	0.00048	"	0.167		52.5	30-130			
Anthracene	0.0922	0.000426	"	0.167		55.2	30-130			

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St. Croix Operating, Inc.
P.O. Box 13799
Denver CO 80201

Andy Peterson
Project Number: [none]
Project: P&A Cut & Cap

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L551924 - 3550B

LCS (LCS-L551924)

Prepared: 05/10/2021 Analyzed: 05/10/2021

Benzo(k)fluoranthene	0.101	0.000486	mg/Kg	0.167		60.4	30-130			
Surrogate: Nitrobenzene-d5	51.6		"	0.333		51.6	29-110			
Surrogate: 4-Terphenyl-d14	59.1		"	0.333		59.1	33-122			
Surrogate: 2-Fluorobiphenyl	50.7		"	0.333		50.7	33-115			

LRB (LRB-L551924)

Prepared: 05/10/2021 Analyzed: 05/10/2021

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	54		"	0.333		54	29-110			
Surrogate: 4-Terphenyl-d14	63.3		"	0.333		63.3	33-122			
Surrogate: 2-Fluorobiphenyl	53.7		"	0.333		53.7	33-115			

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P.O. Box 13799

Denver CO 80201

Andy Peterson

Project Number: [none]

Project: P&A Cut & Cap

Notes and Definitions

U Sample is Non-Detect.

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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