



June 07, 2019

Olsson Associates

Jason Davidson

1525 Raleigh St, Suite 400

Denver

CO 80204

Project Name - Sauvage TB

Project Number - 016-2292

Attached are your analytical results for Sauvage TB received by Origins Laboratory, Inc. May 31, 2019. This project is associated with Origins project number Y906014-01.

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

Olsson Associates

1525 Raleigh St, Suite 400

Denver CO 80204

Jason Davidson

Project Number: 016-2292

Project: Sauvage TB

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB1-10	Y906014-01	Soil	May 28, 2019 9:15	05/31/2019 15:48
SB2-10	Y906014-02	Soil	May 28, 2019 10:45	05/31/2019 15:48
SB3-10	Y906014-03	Soil	May 28, 2019 12:20	05/31/2019 15:48
SB4-11	Y906014-04	Soil	May 28, 2019 12:15	05/31/2019 15:48
SB5-12	Y906014-05	Soil	May 28, 2019 14:00	05/31/2019 15:48
SB7-09	Y906014-06	Soil	May 29, 2019 8:00	05/31/2019 15:48
SB8-8	Y906014-07	Soil	May 29, 2019 9:15	05/31/2019 15:48
SB9-10	Y906014-08	Soil	May 29, 2019 9:40	05/31/2019 15:48

Origins Laboratory, Inc.



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1525 Raleigh St, Suite 400
Denver CO 80204

Jason Davidson
Project Number: 016-2292
Project: Sauvage TB

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y906014

Client: Olsson Associates
Address: 1525 Raleigh St., Ste. 400
Telephone Number: 303-237-2072
Email Address: idavidson@olsson.com

Project Manager: Jason Davidson
Project Name: Sauvage TB
Project Number: 016-2292
Samples Collected By: idavidson@olsson.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other		
S131-10	5/28/19	0915	1	1					X			GRO(8260), DRO(8015)	1
S131-15		0930	1										2
S132-10		1045											3
S132-12		1100											4
S133-10		1220											5
S133-15		1240											6
S134-11		1215											7
S134-12		1225											8
S135-12		1400											9
S135-15		1445											10
Relinquished By: 	Date: 5/31/19		Time: 1540	Received By: 	Date: 5/31/19	Time: 1540	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>						
Relinquished By:	Date:		Time:	Received By:	Date:	Time:							

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Origins Laboratory, Inc.

Jefe Pellegrini

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Olsson Associates
1525 Raleigh St, Suite 400
Denver CO 80204

Jason Davidson
Project Number: 016-2292
Project: Sauvage TB

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ORIGINS
LABORATORY, INC

Client:	Olsson Associates	Project Manager:	Jason Davidson
Address:	1525 Raleigh St., Ste. 400	Project Name:	Sauvage TB
Telephone Number:	303-237-2072	Project Number:	016-2292
Email Address:	j davidson@olsson.com	Samples Collected By:	j davidson@olsson.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #		
586-12	5/28/19	1430	1	1				X			GRO(8260), DRO(8015)	1
587-09	5/29/19	0800	1	1							"	2
587-12	5/29/19	0825	1	1							GRO/DRO	3
588-8	5/29/19	0915	1	1				X			GRO/DRO	4
588-10	5/29/19	0910	1	1								5
589-10	5/29/19	0940	1	1				X			GRO/DRO	6
589-15	5/29/19	0950	1	1								7
												8
												9
												10
Relinquished By:	Date:	Time:	Time:	Received By:	Date:	Time:	Turnaround Time:					
Relinquished By:	Date:	Time:	Time:	Received By:	Date:	Time:	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>					

Date Results Needed

4.5

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Olsson Associates
1525 Raleigh St, Suite 400
Denver CO 80204

Jason Davidson
Project Number: 016-2292
Project: Sauvage TB

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y900014

Client: Olsson

Client Project ID: Sauvage TB

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 6/3/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.8 °C / °C / °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⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<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) JP

Date/Time Reviewed 6/4/19

Origins Laboratory, Inc.

Jefe Pellegrini

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Olsson Associates
1525 Raleigh St, Suite 400
Denver CO 80204

Jason Davidson
Project Number: 016-2292
Project: Sauvage TB

SB1-10

5/28/2019 9:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906014-01 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9F0415	JTD	06/04/2019	06/06/2019	U
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Surrogate: o-Terphenyl	70.8 %	50-150			"	"	"		
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VOC by EPA 8260D

Gasoline Range Hydrocarbons	35.4	5.00	mg/kg	25	B9F0414	JTD	06/04/2019	06/04/2019	
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Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"		
Surrogate: Toluene-d8	102 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"		

Origins Laboratory, Inc.



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Olsson Associates
1525 Raleigh St, Suite 400
Denver CO 80204

Jason Davidson
Project Number: 016-2292
Project: Sauvage TB

SB2-10

5/28/2019 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906014-02 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9F0415	JTD	06/04/2019	06/06/2019	U
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Surrogate: o-Terphenyl	78.5 %	50-150			"	"	"
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VOC by EPA 8260D

Gasoline Range Hydrocarbons	372	50.0	mg/kg	250	B9F0414	JTD	06/04/2019	06/05/2019
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Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"
Surrogate: Toluene-d8	97.5 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"

Origins Laboratory, Inc.



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Olsson Associates
1525 Raleigh St, Suite 400
Denver CO 80204

Jason Davidson
Project Number: 016-2292
Project: Sauvage TB

SB3-10

5/28/2019 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906014-03 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	509	50.0	mg/kg	1	B9F0415	JTD	06/04/2019	06/06/2019
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Surrogate: o-Terphenyl	87.9 %	50-150			"	"	"
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VOC by EPA 8260D

Gasoline Range Hydrocarbons	89.5	5.00	mg/kg	25	B9F0414	JTD	06/04/2019	06/05/2019
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Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"
Surrogate: Toluene-d8	96.3 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"

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Denver CO 80204

Jason Davidson
Project Number: 016-2292
Project: Sauvage TB

SB4-11

5/28/2019 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906014-04 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9F0415	JTD	06/04/2019	06/06/2019	U
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Surrogate: o-Terphenyl	80.4 %	50-150			"	"	"		
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VOC by EPA 8260D

Gasoline Range Hydrocarbons	9.88	5.00	mg/kg	25	B9F0414	JTD	06/04/2019	06/05/2019	
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Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"		
Surrogate: Toluene-d8	96.4 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130			"	"	"		

Origins Laboratory, Inc.



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Olsson Associates
1525 Raleigh St, Suite 400
Denver CO 80204

Jason Davidson
Project Number: 016-2292
Project: Sauvage TB

SB5-12

5/28/2019 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906014-05 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9F0415	JTD	06/04/2019	06/06/2019	U
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Surrogate: o-Terphenyl	79.9 %	50-150			"	"	"
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VOC by EPA 8260D

Gasoline Range Hydrocarbons	12.1	5.00	mg/kg	25	B9F0414	JTD	06/04/2019	06/05/2019
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Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"
Surrogate: Toluene-d8	96.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.4 %	70-130			"	"	"

Origins Laboratory, Inc.



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Olsson Associates
1525 Raleigh St, Suite 400
Denver CO 80204

Jason Davidson
Project Number: 016-2292
Project: Sauvage TB

SB7-09

5/29/2019 8:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906014-06 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9F0415	JTD	06/04/2019	06/06/2019	U
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Surrogate: o-Terphenyl	76.5 %	50-150			"	"	"		
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VOC by EPA 8260D

Gasoline Range Hydrocarbons	65.6	5.00	mg/kg	25	B9F0414	JTD	06/04/2019	06/04/2019	
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Surrogate: 1,2-Dichloroethane-d4	87.9 %	70-130			"	"	"		
Surrogate: Toluene-d8	112 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	119 %	70-130			"	"	"		

Origins Laboratory, Inc.



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Olsson Associates
1525 Raleigh St, Suite 400
Denver CO 80204

Jason Davidson
Project Number: 016-2292
Project: Sauvage TB

SB8-8

5/29/2019 9:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906014-07 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	188	50.0	mg/kg	1	B9F0415	JTD	06/04/2019	06/06/2019
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Surrogate: o-Terphenyl	77.6 %	50-150			"	"	"
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VOC by EPA 8260D

Gasoline Range Hydrocarbons	31.5	5.00	mg/kg	25	B9F0414	JTD	06/04/2019	06/04/2019
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Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"

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Olsson Associates
1525 Raleigh St, Suite 400
Denver CO 80204

Jason Davidson
Project Number: 016-2292
Project: Sauvage TB

SB9-10

5/29/2019 9:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906014-08 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	65.8	50.0	mg/kg	1	B9F0415	JTD	06/04/2019	06/06/2019
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Surrogate: o-Terphenyl	78.7 %	50-150			"	"	"
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VOC by EPA 8260D

Gasoline Range Hydrocarbons	41.4	5.00	mg/kg	25	B9F0414	JTD	06/04/2019	06/04/2019
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Surrogate: 1,2-Dichloroethane-d4	90.5 %	70-130			"	"	"
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Surrogate: Toluene-d8	107 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	109 %	70-130			"	"	"
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1525 Raleigh St, Suite 400
Denver CO 80204

Jason Davidson
Project Number: 016-2292
Project: Sauvage TB

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 B9F0414 - EPA 5030 (soil)

Blank (B9F0414-BLK1)

Prepared: 06/04/2019 Analyzed: 06/04/2019

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg							U
1,1,1-Trichloroethane	ND	0.00200	"							U
1,1,2,2-Tetrachloroethane	ND	0.00200	"							U
1,1,2-Trichloroethane	ND	0.00200	"							U
1,1-Dichloroethane	ND	0.00200	"							U
1,1-Dichloroethene	ND	0.00200	"							U
1,1-Dichloropropene	ND	0.00200	"							U
1,2,3-Trichlorobenzene	ND	0.00500	"							U
1,2,3-Trichloropropane	ND	0.00500	"							U
1,2,4-Trichlorobenzene	ND	0.00500	"							U
1,2,4-Trimethylbenzene	ND	0.00200	"							U
1,2-Dibromo-3-chloropropane	ND	0.00500	"							U
1,2-Dibromoethane (EDB)	ND	0.00200	"							U
1,2-Dichlorobenzene	ND	0.00200	"							U
1,2-Dichloroethane	ND	0.00200	"							U
1,2-Dichloropropane	ND	0.00200	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
1,3-Dichlorobenzene	ND	0.00200	"							U
1,3-Dichloropropane	ND	0.00200	"							U
1,4-Dichlorobenzene	ND	0.00200	"							U
2,2-Dichloropropane	ND	0.00200	"							U
2-Butanone	ND	0.0100	"							U
2-Chlorotoluene	ND	0.00200	"							U
2-Hexanone	ND	0.0100	"							U
4-Chlorotoluene	ND	0.00200	"							U
4-Isopropyltoluene	ND	0.00200	"							U

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Denver CO 80204

Jason Davidson
Project Number: 016-2292
Project: Sauvage TB

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 B9F0414 - EPA 5030 (soil)

Blank (B9F0414-BLK1)

Prepared: 06/04/2019 Analyzed: 06/04/2019

4-Methyl-2-pentanone	ND	0.0100	mg/kg							U
Acetone	ND	0.0200	"							U
Benzene	ND	0.00200	"							U
Bromobenzene	ND	0.00200	"							U
Bromochloromethane	ND	0.00200	"							U
Bromodichloromethane	ND	0.00200	"							U
Bromoform	ND	0.00200	"							U
Bromomethane	ND	0.00200	"							U
Carbon disulfide	ND	0.00500	"							U
Carbon tetrachloride	ND	0.00200	"							U
Chlorobenzene	ND	0.00200	"							U
Chloroethane	ND	0.00500	"							U
Chloroform	ND	0.00200	"							U
Chloromethane	ND	0.00200	"							U
cis-1,2-Dichloroethene	ND	0.00200	"							U
cis-1,3-Dichloropropene	ND	0.00200	"							U
Dibromochloromethane	ND	0.00200	"							U
Dibromomethane	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Hexachlorobutadiene	ND	0.00500	"							U
Iodomethane	ND	0.0150	"							U
Isopropylbenzene	ND	0.00200	"							U
m,p-Xylene	ND	0.00400	"							U
Methyl tert-Butyl Ether	ND	0.00200	"							U
Methylene Chloride	ND	0.0200	"							U
Naphthalene	ND	0.0100	"							U

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Olsson Associates
1525 Raleigh St, Suite 400
Denver CO 80204

Jason Davidson
Project Number: 016-2292
Project: Sauvage TB

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 B9F0414 - EPA 5030 (soil)										
Blank (B9F0414-BLK1)					Prepared: 06/04/2019 Analyzed: 06/04/2019					
n-Butylbenzene	ND	0.00200	mg/kg							U
n-Propylbenzene	ND	0.00200	"							U
o-Xylene	ND	0.00200	"							U
sec-Butylbenzene	ND	0.00200	"							U
Styrene	ND	0.00200	"							U
tert-Butylbenzene	ND	0.00200	"							U
Tetrachloroethene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
trans-1,2-Dichloroethene	ND	0.00200	"							U
trans-1,3-Dichloropropene	ND	0.00200	"							U
Trichloroethene	ND	0.00200	"							U
Trichlorofluoromethane	ND	0.00300	"							U
Vinyl chloride	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	108		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.9		70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9F0414 - EPA 5030 (soil)										
LCS (B9F0414-BS1)					Prepared: 06/04/2019 Analyzed: 06/04/2019					
1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg				70-130			U
1,1,1-Trichloroethane	ND	0.00200	"				70-130			U
1,1,2,2-Tetrachloroethane	ND	0.00200	"				70-130			U
1,1,2-Trichloroethane	ND	0.00200	"				70-130			U
1,1-Dichloroethane	ND	0.00200	"				70-130			U
1,1-Dichloroethene	ND	0.00200	"				70-130			U
1,1-Dichloropropene	ND	0.00200	"				70-130			U
1,2,3-Trichlorobenzene	ND	0.00500	"				70-130			U
1,2,3-Trichloropropane	ND	0.00500	"				70-130			U
1,2,4-Trichlorobenzene	ND	0.00500	"				70-130			U
1,2,4-Trimethylbenzene	ND	0.00200	"				70-130			U
1,2-Dibromo-3-chloropropane	ND	0.00500	"				70-130			U
1,2-Dibromoethane (EDB)	ND	0.00200	"				70-130			U
1,2-Dichlorobenzene	ND	0.00200	"				70-130			U
1,2-Dichloroethane	ND	0.00200	"				70-130			U
1,2-Dichloropropane	ND	0.00200	"				70-130			U
1,3,5-Trimethylbenzene	ND	0.00200	"				70-130			U
1,3-Dichlorobenzene	ND	0.00200	"				70-130			U
1,3-Dichloropropane	ND	0.00200	"				70-130			U
1,4-Dichlorobenzene	ND	0.00200	"				70-130			U
2,2-Dichloropropane	ND	0.00200	"				70-130			U
2-Butanone	ND	0.0100	"				70-130			U
2-Chlorotoluene	ND	0.00200	"				70-130			U
2-Hexanone	ND	0.0100	"				70-130			U
4-Chlorotoluene	ND	0.00200	"				70-130			U
4-Isopropyltoluene	ND	0.00200	"				70-130			U

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Jason Davidson
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Project: Sauvage TB

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 B9F0414 - EPA 5030 (soil)										
LCS (B9F0414-BS1)					Prepared: 06/04/2019 Analyzed: 06/04/2019					
4-Methyl-2-pentanone	ND	0.0100	mg/kg				70-130			U
Acetone	ND	0.0200	"				70-130			U
Benzene	ND	0.00200	"				70-130			U
Bromobenzene	ND	0.00200	"				70-130			U
Bromochloromethane	ND	0.00200	"				70-130			U
Bromodichloromethane	ND	0.00200	"				70-130			U
Bromoform	ND	0.00200	"				70-130			U
Bromomethane	ND	0.00200	"				70-130			U
Carbon disulfide	ND	0.00500	"				70-130			U
Carbon tetrachloride	ND	0.00200	"				70-130			U
Chlorobenzene	ND	0.00200	"				70-130			U
Chloroethane	ND	0.00500	"				70-130			U
Chloroform	ND	0.00200	"				70-130			U
Chloromethane	ND	0.00200	"				70-130			U
cis-1,2-Dichloroethene	ND	0.00200	"				70-130			U
cis-1,3-Dichloropropene	ND	0.00200	"				70-130			U
Dibromochloromethane	ND	0.00200	"				70-130			U
Dibromomethane	ND	0.00200	"				70-130			U
Ethylbenzene	ND	0.00200	"				70-130			U
Hexachlorobutadiene	ND	0.00500	"				70-130			U
Iodomethane	ND	0.0150	"				70-130			U
Isopropylbenzene	ND	0.00200	"				70-130			U
m,p-Xylene	ND	0.00400	"				70-130			U
Methyl tert-Butyl Ether	ND	0.00200	"				70-130			U
Methylene Chloride	ND	0.0200	"				70-130			U
Naphthalene	ND	0.0100	"				70-130			U

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9F0414 - EPA 5030 (soil)

LCS (B9F0414-BS1)

Prepared: 06/04/2019 Analyzed: 06/04/2019

n-Butylbenzene	ND	0.00200	mg/kg				70-130			U
n-Propylbenzene	ND	0.00200	"				70-130			U
o-Xylene	ND	0.00200	"				70-130			U
sec-Butylbenzene	ND	0.00200	"				70-130			U
Styrene	ND	0.00200	"				70-130			U
tert-Butylbenzene	ND	0.00200	"				70-130			U
Tetrachloroethene	ND	0.00200	"				70-130			U
Toluene	ND	0.00200	"				70-130			U
trans-1,2-Dichloroethene	ND	0.00200	"				70-130			U
trans-1,3-Dichloropropene	ND	0.00200	"				70-130			U
Trichloroethene	ND	0.00200	"				70-130			U
Trichlorofluoromethane	ND	0.00300	"				70-130			U
Vinyl chloride	ND	0.00200	"				70-130			U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	100		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	95.6		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		70-130			

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Jason Davidson
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Project: Sauvage TB

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 B9F0414 - EPA 5030 (soil)

LCS Dup (B9F0414-BSD1)

Prepared: 06/04/2019 Analyzed: 06/04/2019

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg				70-130	20	U
1,1,1-Trichloroethane	ND	0.00200	"				70-130	20	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"				70-130	20	U
1,1,2-Trichloroethane	ND	0.00200	"				70-130	20	U
1,1-Dichloroethane	ND	0.00200	"				70-130	20	U
1,1-Dichloroethene	ND	0.00200	"				70-130	20	U
1,1-Dichloropropene	ND	0.00200	"				70-130	20	U
1,2,3-Trichlorobenzene	ND	0.00500	"				70-130	20	U
1,2,3-Trichloropropane	ND	0.00500	"				70-130	20	U
1,2,4-Trichlorobenzene	ND	0.00500	"				70-130	20	U
1,2,4-Trimethylbenzene	ND	0.00200	"				70-130	20	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"				70-130	20	U
1,2-Dibromoethane (EDB)	ND	0.00200	"				70-130	20	U
1,2-Dichlorobenzene	ND	0.00200	"				70-130	20	U
1,2-Dichloroethane	ND	0.00200	"				70-130	20	U
1,2-Dichloropropane	ND	0.00200	"				70-130	20	U
1,3,5-Trimethylbenzene	ND	0.00200	"				70-130	20	U
1,3-Dichlorobenzene	ND	0.00200	"				70-130	20	U
1,3-Dichloropropane	ND	0.00200	"				70-130	20	U
1,4-Dichlorobenzene	ND	0.00200	"				70-130	20	U
2,2-Dichloropropane	ND	0.00200	"				70-130	20	U
2-Butanone	ND	0.0100	"				70-130	20	U
2-Chlorotoluene	ND	0.00200	"				70-130	20	U
2-Hexanone	ND	0.0100	"				70-130	20	U
4-Chlorotoluene	ND	0.00200	"				70-130	20	U
4-Isopropyltoluene	ND	0.00200	"				70-130	20	U

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Jason Davidson
Project Number: 016-2292
Project: Sauvage TB

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 B9F0414 - EPA 5030 (soil)										
LCS Dup (B9F0414-BSD1)					Prepared: 06/04/2019 Analyzed: 06/04/2019					
4-Methyl-2-pentanone	ND	0.0100	mg/kg				70-130	20		U
Acetone	ND	0.0200	"				70-130	20		U
Benzene	ND	0.00200	"				70-130	20		U
Bromobenzene	ND	0.00200	"				70-130	20		U
Bromochloromethane	ND	0.00200	"				70-130	20		U
Bromodichloromethane	ND	0.00200	"				70-130	20		U
Bromoform	ND	0.00200	"				70-130	20		U
Bromomethane	ND	0.00200	"				70-130	20		U
Carbon disulfide	ND	0.00500	"				70-130	20		U
Carbon tetrachloride	ND	0.00200	"				70-130	20		U
Chlorobenzene	ND	0.00200	"				70-130	20		U
Chloroethane	ND	0.00500	"				70-130	20		U
Chloroform	ND	0.00200	"				70-130	20		U
Chloromethane	ND	0.00200	"				70-130	20		U
cis-1,2-Dichloroethene	ND	0.00200	"				70-130	20		U
cis-1,3-Dichloropropene	ND	0.00200	"				70-130	20		U
Dibromochloromethane	ND	0.00200	"				70-130	20		U
Dibromomethane	ND	0.00200	"				70-130	20		U
Ethylbenzene	ND	0.00200	"				70-130	20		U
Hexachlorobutadiene	ND	0.00500	"				70-130	20		U
Iodomethane	ND	0.0150	"				70-130	20		U
Isopropylbenzene	ND	0.00200	"				70-130	20		U
m,p-Xylene	ND	0.00400	"				70-130	20		U
Methyl tert-Butyl Ether	ND	0.00200	"				70-130	20		U
Methylene Chloride	ND	0.0200	"				70-130	20		U
Naphthalene	ND	0.0100	"				70-130	20		U

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9F0414 - EPA 5030 (soil)

LCS Dup (B9F0414-BSD1)

Prepared: 06/04/2019 Analyzed: 06/04/2019

n-Butylbenzene	ND	0.00200	mg/kg				70-130	20	U
n-Propylbenzene	ND	0.00200	"				70-130	20	U
o-Xylene	ND	0.00200	"				70-130	20	U
sec-Butylbenzene	ND	0.00200	"				70-130	20	U
Styrene	ND	0.00200	"				70-130	20	U
tert-Butylbenzene	ND	0.00200	"				70-130	20	U
Tetrachloroethene	ND	0.00200	"				70-130	20	U
Toluene	ND	0.00200	"				70-130	20	U
trans-1,2-Dichloroethene	ND	0.00200	"				70-130	20	U
trans-1,3-Dichloropropene	ND	0.00200	"				70-130	20	U
Trichloroethene	ND	0.00200	"				70-130	20	U
Trichlorofluoromethane	ND	0.00300	"				70-130	20	U
Vinyl chloride	ND	0.00200	"				70-130	20	U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	107		70-130		
Surrogate: Toluene-d8	0.13		"	0.125	107		70-130		
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	98.2		70-130		

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Project: Sauvage TB

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 B9F0415 - EPA 3550B

Blank (B9F0415-BLK1)

Prepared: 06/04/2019 Analyzed: 06/06/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	39		"	50.0		78.8	50-150			

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Project: Sauvage TB

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 B9F0415 - EPA 3550B

LCS (B9F0415-BS1)

Prepared: 06/04/2019 Analyzed: 06/06/2019

Diesel (C10-C28)	988	50.0	mg/kg	1000		98.8	70-130			
Surrogate: o-Terphenyl	48		"	50.0		96.2	50-150			

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Denver CO 80204

Jason Davidson
Project Number: 016-2292
Project: Sauvage TB

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 B9F0415 - EPA 3550B

Matrix Spike (B9F0415-MS1)		Source: Y906014-01			Prepared: 06/04/2019 Analyzed: 06/06/2019					
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130			
Surrogate: o-Terphenyl	43		"	50.0		86.2	50-150			

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Project: Sauvage TB

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 B9F0415 - EPA 3550B

Matrix Spike Dup (B9F0415-MSD1)		Source: Y906014-01			Prepared: 06/04/2019 Analyzed: 06/06/2019					
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130	0.549	35	
Surrogate: o-Terphenyl	43		"	50.0		86.0	50-150			

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Denver CO 80204

Jason Davidson

Project Number: 016-2292

Project: Sauvage TB

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 at a wet weight basis.

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