



March 12, 2019

Olsson Associates

Jason Davidson

1525 Raleigh St, Suite 400

Denver

CO 80204

Project Name - Kraus-Albin #22-20 TB

Project Number - 018-0459

Attached are your analytical results for Kraus-Albin #22-20 TB received by Origins Laboratory, Inc. March 07, 2019. This project is associated with Origins project number Y903092-01.

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: 018-0459
Project: Kraus-Albin #22-20 TB

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-13-19	Y903092-01	Soil	March 6, 2019 9:10	03/07/2019 13:53
SB-14-10	Y903092-02	Soil	March 6, 2019 12:20	03/07/2019 13:53
SB-15-18	Y903092-03	Soil	March 6, 2019 14:40	03/07/2019 13:53
SB-15-22	Y903092-04	Soil	March 6, 2019 14:45	03/07/2019 13:53
SB-16-18	Y903092-05	Soil	March 6, 2019 15:00	03/07/2019 13:53
SB-17-23	Y903092-06	Soil	March 6, 2019 16:05	03/07/2019 13:53
SB-18-20	Y903092-07	Soil	March 6, 2019 16:25	03/07/2019 13:53
SB-19-20	Y903092-08	Soil	March 6, 2019 17:10	03/07/2019 13:53

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Olsson Associates
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 Denver CO 80204

Jason Davidson
 Project Number: 018-0459
 Project: Kraus-Albin #22-20 TB

1403092

Chain of Custody



PROJECT NAME: Kraus Albin 22-20		PROJECT NUMBER: 018-0459	DISPOSAL: By Lab	PAGE: 1 of 1
COMPANY NAME: Olsson Associates		PHONE NUMBER: 303-237-2072	LAB USE ONLY: Temperature upon receipt: <u>5.9</u> Custody seals intact: Yes No N/A	
ADDRESS: 1525 Raleigh St., Suite 400		CITY/STATE/ZIP: Denver/CO/80204		
PROJECT MANAGER: Jason Davidson		PI EMAIL: jdavidson@olsson.com		
SAMPLER: Trent Waite				

DIRECT BILL CLIENT? YES: <input type="checkbox"/> NO: <input checked="" type="checkbox"/>		CLIENT COMPANY:	
SEND COPY OF ANALYTICAL TO CLIENT? YES: <input type="checkbox"/> NO: <input checked="" type="checkbox"/>		CLIENT NAME:	
		CLIENT EMAIL:	
		CLIENT PROJECT #:	

Lab ID	Field ID	Matrix	Sample Date	Sample Time	Sample # Bottles	Notes:
SB-13-19		SOIL	3/6/2019	0910	1	X X X
SB-14-10		SOIL	3/6/2019	1220	1	X X X
SB-15-18		SOIL	3/6/2019	1440	1	X X X
SB-15-22		SOIL	3/6/2019	1445	1	X X X
SB-16-18		SOIL	3/6/2019	1500	1	X X X
SB-17-23		SOIL	3/6/2019	1605	1	X X X
SB-18-20		SOIL	3/6/2019	1625	1	X X X
SB-19-20		SOIL	3/6/2019	1710	1	X X X

RELINQUISHED BY: [Signature]		DATE: 3-7-19	TIME: 1353
RECEIVED BY: [Signature]		DATE: 3-7-19	TIME: 1533
RELINQUISHED BY:			
RECEIVED BY:			

ICC PACKAGE (check below)	
<input checked="" type="checkbox"/> LEVEL I (Standard CC)	
<input type="checkbox"/> LEVEL II (SU CC - forms)	
<input type="checkbox"/> LEVEL III (SU CC - forms + raw data)	

Comments:

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Jason Davidson
 Project Number: 018-0459
 Project: Kraus-Albin #22-20 TB

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y903092 Client: OLSSON
 Client Project ID: Kraus-Albin
 Checklist Completed by: JP Shipped Via: HO
 Date/time completed: 3/8/19 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 5.9 °C _____ / _____ °C _____ / _____ °C _____ / _____ °C (Describe)
 Thermometer ID: TOUB

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 8°C ⁽¹⁾ ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			X	
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 3/12/19

Origins Laboratory, Inc.



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 1525 Raleigh St, Suite 400
 Denver CO 80204

Jason Davidson
 Project Number: 018-0459
 Project: Kraus-Albin #22-20 TB

SB-13-19

3/6/2019 9:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903092-01 (Soil)

BTEX by EPA 8260C

Benzene	0.002	0.002	mg/kg	1	B9C1106	JTD	03/11/2019	03/12/2019	
Toluene	0.007	0.002	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B9C1107	JTD	03/11/2019	03/11/2019	U
Diesel (C10-C28)	ND	50.0	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl	77.4 %	59-131			"	"	"	"	
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Project Number: 018-0459
Project: Kraus-Albin #22-20 TB

SB-14-10

3/6/2019 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903092-02 (Soil)

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	129	50.0	mg/kg	1	B9C1107	JTD	03/11/2019	03/11/2019	
Diesel (C10-C28)	543	50.0	"	"	"	JTD	"	"	
Surrogate: o-Terphenyl	94.4 %			59-131					

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Project: Kraus-Albin #22-20 TB

SB-15-18

3/6/2019 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903092-03 (Soil)

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	1050	50.0	mg/kg	1	B9C1107	JTD	03/11/2019	03/11/2019	
Diesel (C10-C28)	1090	50.0	"	"	"	JTD	"	"	
Surrogate: o-Terphenyl	100 %								

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Jason Davidson
Project Number: 018-0459
Project: Kraus-Albin #22-20 TB

SB-15-22

3/6/2019 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903092-04 (Soil)

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B9C1107	JTD	03/11/2019	03/11/2019	U
Diesel (C10-C28)	ND	50.0	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl	83.6 %	59-131			"	"	"	"	
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Project Number: 018-0459
Project: Kraus-Albin #22-20 TB

SB-16-18

3/6/2019 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903092-05 (Soil)

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B9C1107	JTD	03/11/2019	03/11/2019	U
Diesel (C10-C28)	ND	50.0	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl	80.3 %	59-131			"	"	"	"	
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SB-17-23

3/6/2019 4:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903092-06 (Soil)

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B9C1107	JTD	03/11/2019	03/11/2019	U
Diesel (C10-C28)	ND	50.0	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl	74.9 %	59-131			"	"	"	"	
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Project Number: 018-0459
Project: Kraus-Albin #22-20 TB

SB-18-20

3/6/2019 4:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903092-07 (Soil)

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B9C1107	JTD	03/11/2019	03/11/2019	U
Diesel (C10-C28)	ND	50.0	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl	78.1 %	59-131			"	"	"	"	
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 Project Number: 018-0459
 Project: Kraus-Albin #22-20 TB

SB-19-20

3/6/2019 5:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903092-08 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	B9C1106	JTD	03/11/2019	03/12/2019	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %	70-130			"	"	"	"	

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B9C1107	JTD	03/11/2019	03/11/2019	U
Diesel (C10-C28)	ND	50.0	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl	81.9 %	59-131			"	"	"	"	
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Volatile Organic Compounds by GC/MS SW846 8260C - 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 B9C1106 - EPA 5030 (soil)

Blank (B9C1106-BLK1)

Prepared: 03/11/2019 Analyzed: 03/11/2019

Benzene	ND	0.002	mg/kg							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.10</i>		<i>"</i>	<i>0.125</i>		<i>81.4</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>98.7</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.11</i>		<i>"</i>	<i>0.125</i>		<i>91.2</i>	<i>70-130</i>			

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Jason Davidson
 Project Number: 018-0459
 Project: Kraus-Albin #22-20 TB

Volatile Organic Compounds by GC/MS SW846 8260C - 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 B9C1106 - EPA 5030 (soil)

LCS (B9C1106-BS1)

Prepared: 03/11/2019 Analyzed: 03/11/2019

Benzene	0.099	0.002	mg/kg	0.100		99.4	77.1-124			
Toluene	0.100	0.002	"	0.100		99.6	74.5-128			
Ethylbenzene	0.105	0.002	"	0.100		105	66.4-127			
m,p-Xylene	0.207	0.004	"	0.200		103	76.6-124			
o-Xylene	0.103	0.002	"	0.100		103	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - 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 B9C1106 - EPA 5030 (soil)

Matrix Spike (B9C1106-MS1)	Source: Y903100-01			Prepared: 03/11/2019 Analyzed: 03/11/2019						
Benzene	0.079	0.002	mg/kg	0.100	0.0007	78.3	71.8-126			
Toluene	0.076	0.002	"	0.100	0.006	69.1	65.1-130			
Ethylbenzene	0.062	0.002	"	0.100	ND	62.5	62.2-130			
m,p-Xylene	0.125	0.004	"	0.200	0.004	60.3	46.5-137			
o-Xylene	0.063	0.002	"	0.100	0.0007	62.1	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - 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 B9C1106 - EPA 5030 (soil)

Matrix Spike Dup (B9C1106-MSD1)	Source: Y903100-01			Prepared: 03/11/2019 Analyzed: 03/11/2019						
Benzene	0.081	0.002	mg/kg	0.100	0.0007	79.8	71.8-126	1.85	11.3	
Toluene	0.077	0.002	"	0.100	0.006	70.7	65.1-130	2.04	15.4	
Ethylbenzene	0.064	0.002	"	0.100	ND	64.0	62.2-130	2.43	19.6	
m,p-Xylene	0.128	0.004	"	0.200	0.004	61.9	46.5-137	2.44	19.2	
o-Xylene	0.064	0.002	"	0.100	0.0007	63.7	54.2-134	2.42	17.9	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Jason Davidson
 Project Number: 018-0459
 Project: Kraus-Albin #22-20 TB

Volatile Organic Compounds by GC/MS SW846 8260C - 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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Extractable Petroleum Hydrocarbons by 8015C - 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 B9C1107 - EPA 3580

Blank (B9C1107-BLK1)

Prepared: 03/11/2019 Analyzed: 03/11/2019

Gasoline (C6-C10)	ND	50.0	mg/kg							U
Diesel (C10-C28)	ND	50.0	"							U
Surrogate: o-Terphenyl	44		"	50.0		87.6	59-131			

LCS (B9C1107-BS1)

Prepared: 03/11/2019 Analyzed: 03/11/2019

Gasoline (C6-C10)	913	50.0	mg/kg	1000		91.3	59-133			
Diesel (C10-C28)	940	50.0	"	1000		94.0	64-121			
Surrogate: o-Terphenyl	49		"	50.0		98.1	59-131			

Matrix Spike (B9C1107-MS1)

Source: Y903100-01

Prepared: 03/11/2019 Analyzed: 03/11/2019

Gasoline (C6-C10)	922	50.0	mg/kg	1000	ND	92.2	57-139			
Diesel (C10-C28)	1070	50.0	"	1000	421	65.2	53-125			
Surrogate: o-Terphenyl	44		"	50.0		87.4	59-131			

Matrix Spike Dup (B9C1107-MSD1)

Source: Y903100-01

Prepared: 03/11/2019 Analyzed: 03/11/2019

Gasoline (C6-C10)	949	50.0	mg/kg	1000	ND	94.9	57-139	2.88	20	
Diesel (C10-C28)	988	50.0	"	1000	421	56.8	53-125	8.19	20	
Surrogate: o-Terphenyl	45		"	50.0		90.8	59-131			

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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.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President