



March 06, 2019

**Olsson Associates**

**Jason Davidson**

**1525 Raleigh St, Suite 400**

**Denver**

**CO 80204**

**Project Name - Ehler 2-4 Tank Pull**

**Project Number - 019-0646**

Attached are your analytical results for Ehler 2-4 Tank Pull received by Origins Laboratory, Inc. March 01, 2019. This project is associated with Origins project number Y903013-01.

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: 019-0646  
Project: Ehler 2-4 Tank Pull

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Ehler 2-4 SWS-06	Y903013-01	Soil	March 1, 2019 8:55	03/01/2019 13:30
Ehler 2-4 Base-06	Y903013-02	Soil	March 1, 2019 8:50	03/01/2019 13:30

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Olsson Associates  
 1525 Raleigh St, Suite 400  
 Denver CO 80204

Jason Davidson  
 Project Number: 019-0646  
 Project: Ehler 2-4 Tank Pull

Chain of Custody  
 4903013  
 490319-12



PROJECT NAME: Ehler 2-4 Tank Pull		PROJECT NUMBER: 019-0646	DISPOSAL: By Lab	PAGE: 1 of 1
COMPANY NAME: Olsson Associates		PHONE NUMBER: 303-237-2072	LAB USE ONLY: Temperature upon receipt: 2.4 Custody seals in tact: Yes No N/A	
ADDRESS: 1525 Raleigh St., Suite 400		CITY/STATE/ZIP: Denver, CO		
PROJECT MANAGER: Jason Davidson		PM EMAIL: j.davidson@olsson.com		
SAMPLER: Trent Walter/Mitchell Clark				

  

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

  

Lab ID	Field ID	Matrix	Sample Date	Sample Time	Sample # Bottles	Notes
	EH1802-45 WNS-06	SOIL	3/1/2019	0855	3	
	EH1802-41 BAIT-06	SOIL	3/1/2019	0850	1	
<div style="position: relative; width: 100%; height: 100%;"> <span style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 2em; font-weight: bold;">MC</span> <span style="position: absolute; top: 10%; left: 10%;">3/1/19</span> </div>						

  

RELINQUISHED BY	PRINTED NAME	SIGNATURE	DATE	TIME
BY	Mitchell Clark	<i>[Signature]</i>	3/1/19	1330
RECEIVED BY	J Davidson	<i>[Signature]</i>	3-1-19	1330
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				

  

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

  

Comments:

Origins Laboratory, Inc.

*Jen Pellegrini*

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Jason Davidson  
 Project Number: 019-0646  
 Project: Ehler 2-4 Tank Pull

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4903013  
~~7902515~~ *DL*

Client: Olsson Assoc.  
 Client Project ID: Ehler 2-4 Tank Pull

Checklist Completed by: D. Lu  
 Date/time completed: 3-1-19

Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: NA

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

Cooler Number/Temperature: 1 / 24 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C (Describe)

Thermometer ID: 1003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>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.

[Signature]  
 Reviewed by (Project Manager)

3/4/19  
 Date/Time Reviewed

Origins Laboratory, Inc.

*Jefe Pellegrini*

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 Denver CO 80204

Jason Davidson  
 Project Number: 019-0646  
 Project: Ehler 2-4 Tank Pull

**Ehler 2-4 SWS-06**  
**3/1/2019 8:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y903013-01 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	52.3	50.0	mg/kg	1	B9C0104	KDK	03/01/2019	03/01/2019	
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Surrogate: <i>o</i> -Terphenyl	86.9 %	59-131			"	"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9C0108	JTD	03/01/2019	03/04/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	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	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.8 %	70-130			"	"	"	"	

**Metals (Saturated Paste Prep)**

Calcium	3.40		me/L	1	'[none]'		03/04/2019	03/06/2019	
Magnesium	3.20		"	"	"		"	"	
Sodium	4.36		"	"	"		"	"	

**pH in Soil by EPA 9045D**

pH	7.35		pH Units	1	B9C0105	OLAB	03/01/2019	03/02/2019	
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**Ehler 2-4 SWS-06**  
**3/1/2019 8:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y903013-01 (Soil)**

**SAR by 20B Saturated Paste**

SAR	2.40			1	'[none]'		03/04/2019	03/06/2019	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.205	0.00500	mmhos/cm	1	B9C0106	OLAB	03/01/2019	03/02/2019	
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**Ehler 2-4 Base-06**  
**3/1/2019 8:50:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y903013-02 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9C0104	KDK	03/01/2019	03/01/2019	U
Surrogate: <i>o</i> -Terphenyl	84.5 %	59-131			"	"	"	"	

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9C0108	KDK	03/01/2019	03/01/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.2 %	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 B9C0108 - EPA 5030 (soil)**

**Blank (B9C0108-BLK1)**

Prepared: 03/01/2019 Analyzed: 03/04/2019

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	70-130			

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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 B9C0108 - EPA 5030 (soil)**

**LCS (B9C0108-BS1)**

Prepared: 03/01/2019 Analyzed: 03/04/2019

Benzene	0.092	0.002	mg/kg	0.100		91.9	77.1-124			
Toluene	0.101	0.002	"	0.100		101	74.5-128			
Ethylbenzene	0.096	0.002	"	0.100		96.3	66.4-127			
m,p-Xylene	0.191	0.004	"	0.200		95.6	76.6-124			
o-Xylene	0.097	0.002	"	0.100		96.9	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	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 B9C0108 - EPA 5030 (soil)

Matrix Spike (B9C0108-MS1)	Source: Y903013-02			Prepared: 03/01/2019 Analyzed: 03/04/2019						
Benzene	0.084	0.002	mg/kg	0.100	ND	84.1	71.8-126			
Toluene	0.091	0.002	"	0.100	ND	91.4	65.1-130			
Ethylbenzene	0.087	0.002	"	0.100	ND	87.3	62.2-130			
m,p-Xylene	0.174	0.004	"	0.200	ND	87.2	46.5-137			
o-Xylene	0.088	0.002	"	0.100	ND	87.7	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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 B9C0108 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B9C0108-MSD1)</b>	<b>Source: Y903013-02</b>			<b>Prepared: 03/01/2019 Analyzed: 03/04/2019</b>						
Benzene	0.077	0.002	mg/kg	0.100	ND	77.5	71.8-126	8.22	11.3	
Toluene	0.083	0.002	"	0.100	ND	83.0	65.1-130	9.68	15.4	
Ethylbenzene	0.078	0.002	"	0.100	ND	78.4	62.2-130	10.7	19.6	
m,p-Xylene	0.157	0.004	"	0.200	ND	78.3	46.5-137	10.8	19.2	
o-Xylene	0.078	0.002	"	0.100	ND	78.5	54.2-134	11.1	17.9	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	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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**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 B9C0104 - EPA 3580**

<b>Blank (B9C0104-BLK1)</b>					Prepared: 03/01/2019 Analyzed: 03/01/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	45		"	50.0		89.4	59-131			
<b>Blank (B9C0104-BLK2)</b>					Prepared: 03/01/2019 Analyzed: 03/01/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	45		"	50.0		89.1	59-131			
<b>Blank (B9C0104-BLK3)</b>					Prepared: 03/01/2019 Analyzed: 03/02/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	47		"	50.0		94.6	59-131			
<b>Blank (B9C0104-BLK4)</b>					Prepared: 03/01/2019 Analyzed: 03/04/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	46		"	50.0		92.9	59-131			
<b>LCS (B9C0104-BS1)</b>					Prepared: 03/01/2019 Analyzed: 03/01/2019					
Diesel (C10-C28)	983	50.0	mg/kg	1000		98.3	64-121			
Surrogate: o-Terphenyl	50		"	50.0		101	59-131			
<b>LCS (B9C0104-BS2)</b>					Prepared: 03/01/2019 Analyzed: 03/01/2019					
Diesel (C10-C28)	984	50.0	mg/kg	1000		98.4	64-121			
Surrogate: o-Terphenyl	49		"	50.0		98.7	59-131			

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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
<b>Batch B9C0104 - EPA 3580</b>										
<b>LCS (B9C0104-BS3)</b>					Prepared: 03/01/2019 Analyzed: 03/02/2019					
Diesel (C10-C28)	965	50.0	mg/kg	1000		96.5	64-121			
Surrogate: o-Terphenyl	48		"	50.0		96.5	59-131			
<b>LCS (B9C0104-BS4)</b>					Prepared: 03/01/2019 Analyzed: 03/02/2019					
Diesel (C10-C28)	1080	50.0	mg/kg	1000		108	64-121			
Surrogate: o-Terphenyl	54		"	50.0		108	59-131			
<b>Matrix Spike (B9C0104-MS1)</b>		<b>Source: Y903010-02</b>			Prepared: 03/01/2019 Analyzed: 03/01/2019					
Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	53-125			
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			
<b>Matrix Spike (B9C0104-MS2)</b>		<b>Source: Y903013-02</b>			Prepared: 03/01/2019 Analyzed: 03/01/2019					
Diesel (C10-C28)	918	50.0	mg/kg	1000	ND	91.8	53-125			
Surrogate: o-Terphenyl	44		"	50.0		87.5	59-131			
<b>Matrix Spike (B9C0104-MS3)</b>		<b>Source: Y903023-02</b>			Prepared: 03/01/2019 Analyzed: 03/02/2019					
Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	53-125			
Surrogate: o-Terphenyl	49		"	50.0		98.5	59-131			
<b>Matrix Spike (B9C0104-MS4)</b>		<b>Source: Y903022-01</b>			Prepared: 03/01/2019 Analyzed: 03/02/2019					
Diesel (C10-C28)	990	50.0	mg/kg	1000	ND	99.0	53-125			
Surrogate: o-Terphenyl	49		"	50.0		99.0	59-131			
<b>Matrix Spike Dup (B9C0104-MSD1)</b>		<b>Source: Y903010-02</b>			Prepared: 03/01/2019 Analyzed: 03/01/2019					
Diesel (C10-C28)	957	50.0	mg/kg	1000	ND	95.7	53-125	6.22	20	
Surrogate: o-Terphenyl	48		"	50.0		96.0	59-131			
<b>Matrix Spike Dup (B9C0104-MSD2)</b>		<b>Source: Y903013-02</b>			Prepared: 03/01/2019 Analyzed: 03/01/2019					

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9C0104 - EPA 3580</b>										
<b>Matrix Spike Dup (B9C0104-MSD2)</b>		<b>Source: Y903013-02</b>			Prepared: 03/01/2019 Analyzed: 03/01/2019					
Diesel (C10-C28)	955	50.0	mg/kg	1000	ND	95.5	53-125	3.95	20	
Surrogate: o-Terphenyl	46		"	50.0		91.8	59-131			
<b>Matrix Spike Dup (B9C0104-MSD3)</b>		<b>Source: Y903023-02</b>			Prepared: 03/01/2019 Analyzed: 03/02/2019					
Diesel (C10-C28)	1050	50.0	mg/kg	1000	ND	105	53-125	3.30	20	
Surrogate: o-Terphenyl	54		"	50.0		108	59-131			
<b>Matrix Spike Dup (B9C0104-MSD4)</b>		<b>Source: Y903022-01</b>			Prepared: 03/01/2019 Analyzed: 03/02/2019					
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	53-125	2.04	20	
Surrogate: o-Terphenyl	50		"	50.0		99.5	59-131			

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*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.*

Olsson Associates  
 1525 Raleigh St, Suite 400  
 Denver CO 80204

Jason Davidson  
 Project Number: 019-0646  
 Project: Ehler 2-4 Tank Pull

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9C0105 - NO PREP</b>										
<b>Duplicate (B9C0105-DUP1)</b>		<b>Source: Y903013-01</b>			Prepared: 03/01/2019 Analyzed: 03/02/2019					
pH	7.31		pH Units		7.35			0.546	25	
<b>Batch B9C0106 - NO PREP</b>										
<b>Blank (B9C0106-BLK1)</b>		Prepared: 03/01/2019 Analyzed: 03/02/2019								
Specific Conductance (EC)	0.00180	0.00500	mmhos/cm							
<b>Duplicate (B9C0106-DUP1)</b>		<b>Source: Y903013-01</b>			Prepared: 03/01/2019 Analyzed: 03/02/2019					
Specific Conductance (EC)	0.204	0.00500	mmhos/cm		0.205			0.147	25	

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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.

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Jen Pellegrini, Project Manager