

**April 01, 2015****Olsson Associates****Kevin Taylor****4690 Table Mountain Drive****Golden CO 80403****Project Name - Stelbar Risk Assessment****Project Number - 015-0272-102**

Attached are your analytical results for Stelbar Risk Assessment received by Origins Laboratory, Inc. March 26, 2015. This project is associated with Origins project number X503349-01.

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



Olsson Associates

4690 Table Mountain Drive

Golden CO 80403

Kevin Taylor

Project Number: 015-0272-102

Project: Stelbar Risk Assessment

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Permitted Well	X503349-01	Water	March 26, 2015 11:59	03/26/2015 17:30
MW1	X503349-02	Water	March 26, 2015 12:25	03/26/2015 17:30
MW2	X503349-03	Water	March 26, 2015 12:54	03/26/2015 17:30
Trip Blank	X503349-04	Water	March 26, 2015 0:00	03/26/2015 17:30

Origins Laboratory, Inc.



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Olsson Associates  
4690 Table Mountain Drive  
Golden CO 80403

Kevin Taylor  
Project Number: 015-0272-102  
Project: Stelbar Risk Assessment

www.originslaboratory.com

XS03349

ORIGINS  
LABORATORY, INC

page 1 of 1

Client: Olsson Project Manager/Send Report To: Kevin Taylor  
Address: \_\_\_\_\_ Email Address: kgabes, ktaylor@olssonassociates.com  
Telephone Number: 920 240 1043 Project Name/Number: 015-0272-102  
Samples Collected By: Nicki Grady

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Conister #		
Permitted Well	3/26/15	1159	4	1	3							1
MW1		1225	4	1	3							2
MW2		1234	4	1	3							3
Trip Blank		NA	2		2						BTEX	4
												5
												6
												7
												8
												9
												10

  

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<u>[Signature]</u>	3/26/15	1430	<u>[Signature]</u>	3/26/15	1430	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/>
<u>[Signature]</u>	3/26/15	1730	<u>[Signature]</u>	3/26/15	1730	48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 3.2

Date Results Needed:

Comments:

Origins Laboratory, Inc.

Jefe Pellegrini

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4690 Table Mountain Drive  
Golden CO 80403

Kevin Taylor  
Project Number: 015-0272-102  
Project: Stelbar Risk Assessment

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: XS03349

Client: Olsson

Client Project ID: Stelbar Risk Assessment

Checklist Completed by: Jen Pellegrini

Shipped Via: #1D

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

Date/time completed: 3/27/15

Airbill #: N/A

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

Cooler Number/Temperature: 1 3.2 °C 1 °C 1 °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 <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"/>			<u>HCL</u>
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.

Jen Pellegrini  
Reviewed by (Project Manager)

3/27/15  
Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

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Golden CO 80403

Kevin Taylor  
Project Number: 015-0272-102  
Project: Stelbar Risk Assessment

## Permitted Well

3/26/2015 11:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X503349-01 (Water)

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

Diesel (C10-C28)	ND	5.0	mg/L	1	5C30005	03/30/2015	03/31/2015
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Surrogate: o-Terphenyl	84.2 %	54-117			"	"	"
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## GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	100	ug/L	1	5C30001	03/30/2015	03/31/2015
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Benzene	ND	1.0	"	"	"	"	"
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Toluene	ND	1.0	"	"	"	"	"
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Ethylbenzene	ND	1.0	"	"	"	"	"
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Xylenes, total	ND	1.0	"	"	"	"	"
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Surrogate: 1,2-Dichloroethane-d4	99.4 %	84-121			"	"	"
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Surrogate: Toluene-d8	101 %	85-115			"	"	"
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Surrogate: 4-Bromofluorobenzene	96.0 %	84-114			"	"	"
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Project Number: 015-0272-102  
Project: Stelbar Risk Assessment

**MW1****3/26/2015 12:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X503349-02 (Water)****Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	5.0	mg/L	1	5C30005	03/30/2015	03/31/2015
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Surrogate: o-Terphenyl	83.3 %	54-117			"	"	"
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	100	ug/L	1	5C30001	03/30/2015	03/31/2015
-----------------------------	----	-----	------	---	---------	------------	------------

Benzene	ND	1.0	"	"	"	"	"
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Toluene	ND	1.0	"	"	"	"	"
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Ethylbenzene	ND	1.0	"	"	"	"	"
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Xylenes, total	ND	1.0	"	"	"	"	"
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Surrogate: 1,2-Dichloroethane-d4	99.7 %	84-121			"	"	"
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Surrogate: Toluene-d8	102 %	85-115			"	"	"
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Surrogate: 4-Bromofluorobenzene	95.8 %	84-114			"	"	"
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Project: Stelbar Risk Assessment

## MW2

3/26/2015 12:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X503349-03 (Water)

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

Diesel (C10-C28)	ND	5.0	mg/L	1	5C30005	03/30/2015	04/01/2015
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Surrogate: o-Terphenyl	85.8 %	54-117			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	100	ug/L	1	5C30001	03/30/2015	03/31/2015
Benzene	ND	1.0	"	"	"	"	"
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	98.7 %	84-121			"	"	"
Surrogate: Toluene-d8	101 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	96.7 %	84-114			"	"	"

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Trip Blank  
3/26/2015 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X503349-04 (Water)

## BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5C30001	03/30/2015	03/31/2015
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	99.1 %	87.3-113			"	"	"
Surrogate: Toluene-d8	102 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	95.5 %	88.6-111			"	"	"

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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 5C30001 - EPA 5030B (Water)**

**Blank (5C30001-BLK1)**

Prepared: 03/30/2015 Analyzed: 03/31/2015

Gasoline Range Hydrocarbons	ND	100	ug/L							
Benzene	ND	1.0	"							
Benzene	ND	1.0	"							
Toluene	ND	1.0	"							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	61.2		"	62.5		97.9	84-121			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.9	87.3-113			
Surrogate: Toluene-d8	63.4		"	62.5		101	85-115			
Surrogate: Toluene-d8	63		"	62.5		101	90.9-108			
Surrogate: 4-Bromofluorobenzene	59.2		"	62.5		94.8	84-114			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.8	88.6-111			

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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 5C30001 - EPA 5030B (Water)**

**LCS (5C30001-BS1)**

Prepared: 03/30/2015 Analyzed: 03/31/2015

Benzene	41.1	1.0	ug/L	50.0		82.2	75-126			
Benzene	41.1	1.0	"	50.0		82.2	74-130			
Toluene	42.3	1.0	"	50.0		84.6	78.7-126			
Toluene	42.3	1.0	"	50.0		84.6	76-128			
Ethylbenzene	43.2	1.0	"	50.0		86.5	80-130			
m,p-Xylene	85.3	2.0	"	100		85.3	77.2-133			
Ethylbenzene	43.2	1.0	"	50.0		86.5	78-130			
m,p-Xylene	85.3	2.0	"	100		85.3	75-134			
o-Xylene	43.4	1.0	"	50.0		86.8	77.9-126			
o-Xylene	43.4	1.0	"	50.0		86.8	76-129			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.6	87.3-113			
Surrogate: 1,2-Dichloroethane-d4	57.9		"	62.5		92.6	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	90.9-108			
Surrogate: Toluene-d8	64.0		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.4	88.6-111			
Surrogate: 4-Bromofluorobenzene	60.9		"	62.5		97.4	84-114			

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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 5C30001 - EPA 5030B (Water)**

Matrix Spike (5C30001-MS1)		Source: X503313-01			Prepared: 03/30/2015 Analyzed: 03/31/2015					
Benzene	54.4	1.0	ug/L	50.0	0.7	107	74-130			
Toluene	55.4	1.0	"	50.0	ND	111	73-131			
Benzene	54.4	1.0	"	50.0	0.7	107	74-130			
Toluene	55.4	1.0	"	50.0	ND	111	73-131			
Ethylbenzene	56.2	1.0	"	50.0	0.2	112	76-132			
m,p-Xylene	111	2.0	"	100	0.3	110	69-139			
Ethylbenzene	56.2	1.0	"	50.0	0.2	112	76-132			
o-Xylene	54.2	1.0	"	50.0	ND	108	74-131			
m,p-Xylene	111	2.0	"	100	0.3	110	69-139			
o-Xylene	54.2	1.0	"	50.0	ND	108	74-131			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.8	87.3-113			
Surrogate: 1,2-Dichloroethane-d4	57.4		"	62.5		91.8	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	90.9-108			
Surrogate: Toluene-d8	63.8		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.6	88.6-111			
Surrogate: 4-Bromofluorobenzene	59.7		"	62.5		95.6	84-114			

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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 5C30001 - EPA 5030B (Water)**

Matrix Spike Dup (5C30001-MSD1)		Source: X503313-01			Prepared: 03/30/2015 Analyzed: 03/31/2015					
Benzene	59.3	1.0	ug/L	50.0	0.7	117	74-130	8.71	20	
Toluene	59.7	1.0	"	50.0	ND	119	73-131	7.39	20	
Benzene	59.3	1.0	"	50.0	0.7	117	74-130	8.71	20	
Ethylbenzene	59.9	1.0	"	50.0	0.2	120	76-132	6.48	20	
Toluene	59.7	1.0	"	50.0	ND	119	73-131	7.39	20	
m,p-Xylene	116	2.0	"	100	0.3	116	69-139	4.88	20	
Ethylbenzene	59.9	1.0	"	50.0	0.2	120	76-132	6.48	20	
m,p-Xylene	116	2.0	"	100	0.3	116	69-139	4.88	20	
o-Xylene	55.3	1.0	"	50.0	ND	111	74-131	2.01	20	
o-Xylene	55.3	1.0	"	50.0	ND	111	74-131	2.01	20	
Surrogate: 1,2-Dichloroethane-d4	57.4		"	62.5		91.9	84-121			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.9	87.3-113			
Surrogate: Toluene-d8	64		"	62.5		102	90.9-108			
Surrogate: Toluene-d8	63.8		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.6	88.6-111			
Surrogate: 4-Bromofluorobenzene	59.7		"	62.5		95.6	84-114			

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Project Number: 015-0272-102  
Project: Stelbar Risk Assessment

## 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 5C30005 - EPA 3511 Mod.

#### Blank (5C30005-BLK1)

Prepared: 03/30/2015 Analyzed: 03/31/2015

Diesel (C10-C28) ND 5.0 mg/L

Surrogate: o-Terphenyl 4.1 " 5.00 82.1 54-117

#### Blank (5C30005-BLK2)

Prepared: 03/30/2015 Analyzed: 03/31/2015

Diesel (C10-C28) ND 5.0 mg/L

Surrogate: o-Terphenyl 4.4 " 5.00 87.5 54-117

#### LCS (5C30005-BS1)

Prepared: 03/30/2015 Analyzed: 03/31/2015

Diesel (C10-C28) 105 5.0 mg/L 100 105 61-120

Surrogate: o-Terphenyl 4.0 " 5.00 79.1 54-117

#### LCS (5C30005-BS2)

Prepared: 03/30/2015 Analyzed: 03/31/2015

Diesel (C10-C28) 104 5.0 mg/L 100 104 61-120

Surrogate: o-Terphenyl 4.1 " 5.00 82.1 54-117

#### Matrix Spike (5C30005-MS1)

Source: X503352-01

Prepared: 03/30/2015 Analyzed: 03/31/2015

Diesel (C10-C28) 110 5.0 mg/L 100 25.1 85.3 54-126

Surrogate: o-Terphenyl 3.3 " 5.00 65.3 54-117

#### Matrix Spike (5C30005-MS2)

Source: X503352-02

Prepared: 03/30/2015 Analyzed: 03/31/2015

Diesel (C10-C28) 101 5.0 mg/L 100 6.2 94.7 54-126

Surrogate: o-Terphenyl 2.5 " 5.00 49.4 54-117

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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 5C30005 - EPA 3511 Mod.</b>										
<b>Matrix Spike Dup (5C30005-MSD1)</b>			<b>Source: X503352-01</b>		Prepared: 03/30/2015 Analyzed: 03/31/2015					
Diesel (C10-C28)	117	5.0	mg/L	100	25.1	91.7	54-126	5.62	20	
Surrogate: o-Terphenyl	2.9		"	5.00		58.2	54-117			
<b>Matrix Spike Dup (5C30005-MSD2)</b>			<b>Source: X503352-02</b>		Prepared: 03/30/2015 Analyzed: 03/31/2015					
Diesel (C10-C28)	101	5.0	mg/L	100	6.2	95.0	54-126	0.233	20	
Surrogate: o-Terphenyl	3.0		"	5.00		60.6	54-117			

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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

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Kevin Taylor

Project Number: 015-0272-102

Project: Stelbar Risk Assessment

### Notes and Definitions

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.



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Jen Pellegrini For Noelle Doyle Mathis, President