

S TELBAR O I L C O R P O R A T I O N, I N C.
1625 NORTH WATERFRONT PARKWAY, SUITE #200
WICHITA, KANSAS 67206-6620
Telephone : (316) 264-8378
Fax : (316) 264-0592

April 18, 2017

Colorado Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801
Denver, CO 80203
Attention Mr. John Axelson

Re: Groundwater Monitoring Report – March 2017
Pierce Unit Central Battery
COGCC Rem #9093

Dear John,

Please find attached the results of the groundwater monitoring program conducted during March 2017 at the Pierce Unit Central Battery.

The report includes a table summarizing the results, a potentiometric surface map showing groundwater flow direction, and the detailed laboratory results.

Should you have any questions, please contact the undersigned at 316-440-7605 or roscoe@stelbar.com.

Sincerely,

Roscoe Mendenhall
Engineer

RLM/np

Stelbar Oil Corporation, Inc.
Pierce Unit Central Battery
Groundwater Monitoring Results
COGCC Rem # 9093
March 2017

Well Name	Depth to GW (Feet)	GW Relative Elev. (Feet)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylene (ug/L)	TPH - GRO (mg/L)	TPH - DRO (mg/L)
MW 1	23.71	74.24	ND	ND	ND	ND	ND	ND
MW 2	23.9	74.62	ND	ND	ND	ND	ND	ND
Stelbar WSW	25.8	75.25	ND	ND	ND	ND	ND	ND

ND - Not Detected



74.03 Groundwater Relative Elevation (Ft.)
 --- Groundwater Relative Elevation Contour (Interval 0.02 Ft)
 --- Depth to groundwater measured 3/28/17

Potentiometric Surface – March 2017
 Pierce Central Tank Battery
 Stelbar Oil Corporation
 Weld County, Colorado

LEGEND

- - Due Diligence Boring Location
- - Groundwater Monitoring Well
- - Approximate outline of 1988 historical pits

All boring and well locations are approximate

April 04, 2017

Olsson Associates

Nikki Graber

4690 Table Mountain Drive

Golden CO 80403

Project Name - Stelbar

Project Number - 015-0272

Attached are your analytical results for Stelbar received by Origins Laboratory, Inc. March 28, 2017. This project is associated with Origins project number Y703386-01.

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

Nikki Graber
Project Number: 015-0272
Project: Stelbar

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	Y703386-01	Water	March 28, 2017 14:25	03/28/2017 16:16
MW-2	Y703386-02	Water	March 28, 2017 14:10	03/28/2017 16:16
Permitted Well	Y703386-03	Water	March 28, 2017 13:18	03/28/2017 16:16

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-0272
 Project: Stelbar

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: y703336

Client: Olsson Associates

Client Project ID: Stelbar

Checklist Completed by: Don Lee

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

Date/time completed: 3-26-17 16:54

Airbill #: NA

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

Cooler Number/Temperature: 1 12.5 °C 1 °C 1 °C 1 °C

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

Don Lee
 Reviewed by (Project Manager)

3/29/17
 Date/Time Reviewed

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-0272
 Project: Stelbar

MW-1

3/28/2017 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y703386-01 (Water)

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

Diesel (C10-C28)	ND	5.00	mg/L	1	B7C3102	03/31/2017	04/04/2017	U
Surrogate: o-Terphenyl	106 %	54-117			"	"	"	

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	100	ug/L	1	B7C3002	03/30/2017	03/30/2017	U
Benzene	ND	1.00	"	"	"	"	"	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.7 %	85.9-113			"	"	"	
Surrogate: Toluene-d8	102 %	89-110			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.5 %	92.9-107			"	"	"	

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-0272
 Project: Stelbar

MW-2
3/28/2017 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703386-02 (Water)

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

Diesel (C10-C28)	ND	5.00	mg/L	1	B7C3102	03/31/2017	04/04/2017	U
Surrogate: o-Terphenyl	115 %	54-117			"	"	"	

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	100	ug/L	1	B7C3002	03/30/2017	03/30/2017	U
Benzene	ND	1.00	"	"	"	"	"	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.3 %	85.9-113			"	"	"	
Surrogate: Toluene-d8	99.4 %	89-110			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %	92.9-107			"	"	"	

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-0272
 Project: Stelbar

Permitted Well
3/28/2017 1:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703386-03 (Water)

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

Diesel (C10-C28)	ND	5.00	mg/L	1	B7C3102	03/31/2017	04/04/2017	U
<i>Surrogate: o-Terphenyl</i>	111 %	54-117			"	"	"	

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	100	ug/L	1	B7C3002	03/30/2017	03/30/2017	U
Benzene	ND	1.00	"	"	"	"	"	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	99.9 %	85.9-113			"	"	"	
<i>Surrogate: Toluene-d8</i>	99.4 %	89-110			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	99.7 %	92.9-107			"	"	"	

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-0272
 Project: Stelbar

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 B7C3002 - EPA 5030B (Water)

Blank (B7C3002-BLK1)

Prepared: 03/30/2017 Analyzed: 03/30/2017

Gasoline Range Hydrocarbons	ND	100	ug/L							U
Benzene	ND	1.00	"							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63.0		"	62.5		101	85.9-113			
Surrogate: Toluene-d8	62.5		"	62.5		100	89-110			
Surrogate: 4-Bromofluorobenzene	62.6		"	62.5		100	92.9-107			

Origins Laboratory, Inc.



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 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-0272
 Project: Stelbar

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 B7C3002 - EPA 5030B (Water)

Blank (B7C3002-BLK2)

Prepared: 03/30/2017 Analyzed: 03/30/2017

Gasoline Range Hydrocarbons	ND	100	ug/L							U
Benzene	ND	1.00	"							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	62.8		"	62.5		101	85.9-113			
Surrogate: Toluene-d8	62.8		"	62.5		100	89-110			
Surrogate: 4-Bromofluorobenzene	61.4		"	62.5		98.3	92.9-107			

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 Project: Stelbar

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 B7C3002 - EPA 5030B (Water)

LCS (B7C3002-BS1)

Prepared: 03/30/2017 Analyzed: 03/30/2017

Benzene	48.4	1.00	ug/L	50.0		96.7	80-120			
Toluene	48.0	1.00	"	50.0		96.0	80-122			
Ethylbenzene	47.9	1.00	"	50.0		95.8	77-129			
m,p-Xylene	96.2	2.00	"	100		96.2	78.6-126			
o-Xylene	48.3	1.00	"	50.0		96.6	80-121			
Surrogate: 1,2-Dichloroethane-d4	58.7		"	62.5		94.0	85.9-113			
Surrogate: Toluene-d8	62.1		"	62.5		99.4	89-110			
Surrogate: 4-Bromofluorobenzene	63.3		"	62.5		101	92.9-107			

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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 B7C3002 - EPA 5030B (Water)

LCS (B7C3002-BS2)

Prepared: 03/30/2017 Analyzed: 03/30/2017

Benzene	55.5	1.00	ug/L	50.0		111	80-120			
Toluene	53.6	1.00	"	50.0		107	80-122			
Ethylbenzene	52.9	1.00	"	50.0		106	77-129			
m,p-Xylene	107	2.00	"	100		107	78.6-126			
o-Xylene	54.1	1.00	"	50.0		108	80-121			
Surrogate: 1,2-Dichloroethane-d4	59.6		"	62.5		95.3	85.9-113			
Surrogate: Toluene-d8	62.6		"	62.5		100	89-110			
Surrogate: 4-Bromofluorobenzene	62.3		"	62.5		99.7	92.9-107			

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 Golden CO 80403

Nikki Graber
 Project Number: 015-0272
 Project: Stelbar

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 B7C3002 - EPA 5030B (Water)

Matrix Spike (B7C3002-MS1)	Source: Y703386-01			Prepared: 03/30/2017 Analyzed: 03/30/2017						
Benzene	53.1	1.00	ug/L	50.0	ND	106	75.3-128			
Toluene	51.2	1.00	"	50.0	ND	102	74.2-132			
Ethylbenzene	51.3	1.00	"	50.0	ND	103	71.5-138			
m,p-Xylene	104	2.00	"	100	ND	104	70-136			
o-Xylene	50.5	1.00	"	50.0	ND	101	77.2-127			
Surrogate: 1,2-Dichloroethane-d4	59.0		"	62.5		94.4	85.9-113			
Surrogate: Toluene-d8	62.2		"	62.5		99.6	89-110			
Surrogate: 4-Bromofluorobenzene	62.6		"	62.5		100	92.9-107			

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 Golden CO 80403

Nikki Graber
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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 B7C3002 - EPA 5030B (Water)

Matrix Spike (B7C3002-MS2)	Source: Y703386-02			Prepared: 03/30/2017 Analyzed: 03/30/2017						
Benzene	51.7	1.00	ug/L	50.0	ND	103	75.3-128			
Toluene	50.4	1.00	"	50.0	ND	101	74.2-132			
Ethylbenzene	50.1	1.00	"	50.0	ND	100	71.5-138			
m,p-Xylene	101	2.00	"	100	ND	101	70-136			
o-Xylene	50.2	1.00	"	50.0	ND	100	77.2-127			
Surrogate: 1,2-Dichloroethane-d4	58.8		"	62.5		94.1	85.9-113			
Surrogate: Toluene-d8	62.6		"	62.5		100	89-110			
Surrogate: 4-Bromofluorobenzene	62.6		"	62.5		100	92.9-107			

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 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-0272
 Project: Stelbar

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 B7C3002 - EPA 5030B (Water)

Matrix Spike Dup (B7C3002-MSD1)	Source: Y703386-01			Prepared: 03/30/2017 Analyzed: 03/30/2017						
Benzene	39.3	1.00	ug/L	50.0	ND	78.6	75.3-128	29.9	20	QR-02
Toluene	37.8	1.00	"	50.0	ND	75.7	74.2-132	30.0	20	QR-02
Ethylbenzene	37.0	1.00	"	50.0	ND	74.0	71.5-138	32.4	20	QR-02
m,p-Xylene	75.2	2.00	"	100	ND	75.2	70-136	31.9	20	QR-02
o-Xylene	38.6	1.00	"	50.0	ND	77.2	77.2-127	26.8	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	59.4		"	62.5		95.1	85.9-113			
Surrogate: Toluene-d8	63.6		"	62.5		102	89-110			
Surrogate: 4-Bromofluorobenzene	63.2		"	62.5		101	92.9-107			

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 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-0272
 Project: Stelbar

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 B7C3002 - EPA 5030B (Water)

Matrix Spike Dup (B7C3002-MSD2)	Source: Y703386-02			Prepared: 03/30/2017 Analyzed: 03/30/2017						
Benzene	55.3	1.00	ug/L	50.0	ND	111	75.3-128	6.70	20	
Toluene	54.1	1.00	"	50.0	ND	108	74.2-132	6.95	20	
Ethylbenzene	54.0	1.00	"	50.0	ND	108	71.5-138	7.49	20	
m,p-Xylene	109	2.00	"	100	ND	109	70-136	8.13	20	
o-Xylene	55.0	1.00	"	50.0	ND	110	77.2-127	9.16	20	
Surrogate: 1,2-Dichloroethane-d4	59.6		"	62.5		95.3	85.9-113			
Surrogate: Toluene-d8	62.4		"	62.5		99.8	89-110			
Surrogate: 4-Bromofluorobenzene	62.3		"	62.5		99.6	92.9-107			

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 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-0272
 Project: Stelbar

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 B7C3102 - EPA 3511 Mod.

Blank (B7C3102-BLK1)					Prepared: 03/31/2017 Analyzed: 04/03/2017					
Diesel (C10-C28)	ND	5.00	mg/L							U
Surrogate: o-Terphenyl	5.2		"	5.00		103	54-117			
Blank (B7C3102-BLK2)					Prepared: 03/31/2017 Analyzed: 04/03/2017					
Diesel (C10-C28)	ND	5.00	mg/L							U
Surrogate: o-Terphenyl	5.5		"	5.00		111	54-117			
LCS (B7C3102-BS1)					Prepared: 03/31/2017 Analyzed: 04/03/2017					
Diesel (C10-C28)	96.3	5.00	mg/L	100		96.3	61-120			
Surrogate: o-Terphenyl	4.9		"	5.00		97.9	54-117			
LCS (B7C3102-BS2)					Prepared: 03/31/2017 Analyzed: 04/03/2017					
Diesel (C10-C28)	105	5.00	mg/L	100		105	61-120			
Surrogate: o-Terphenyl	5.4		"	5.00		107	54-117			
Matrix Spike (B7C3102-MS1)		Source: Y703411-02			Prepared: 03/31/2017 Analyzed: 04/04/2017					
Diesel (C10-C28)	126	5.00	mg/L	100	ND	126	54-126			
Surrogate: o-Terphenyl	5.8		"	5.00		117	54-117			
Matrix Spike (B7C3102-MS2)		Source: Y703411-05			Prepared: 03/31/2017 Analyzed: 04/03/2017					
Diesel (C10-C28)	92.5	5.00	mg/L	100	5.24	87.3	54-126			
Surrogate: o-Terphenyl	4.8		"	5.00		95.0	54-117			

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-0272
 Project: Stelbar

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 B7C3102 - EPA 3511 Mod.

Matrix Spike Dup (B7C3102-MSD1)		Source: Y703411-02			Prepared: 03/31/2017 Analyzed: 04/03/2017					
Diesel (C10-C28)	110	5.00	mg/L	100	ND	110	54-126	13.2	20	
Surrogate: o-Terphenyl	5.4		"	5.00		108	54-117			
Matrix Spike Dup (B7C3102-MSD2)		Source: Y703411-05			Prepared: 03/31/2017 Analyzed: 04/03/2017					
Diesel (C10-C28)	92.6	5.00	mg/L	100	5.24	87.4	54-126	0.115	20	
Surrogate: o-Terphenyl	4.8		"	5.00		96.1	54-117			

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.

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 015-0272
Project: Stelbar

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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 For Noelle Doyle Mathis, President