

State of Colorado
Oil and Gas Conservation Commission



1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

FOR OGCC USE ONLY

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

OGCC Employee:
 Spill Complaint
 Inspection NOAV
 Tracking No:

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

Spill or Release Plug & Abandon Central Facility Closure Site/Facility Closure Other (describe): _____

OGCC Operator Number: <u>10110</u>	Contact Name and Telephone: <u>Scot Donato</u>
Name of Operator: <u>Great Western Operating Company, LLC</u>	No: <u>303-398-0537</u>
Address: <u>1801 Broadway, Suite 500</u>	Fax: <u>866-742-1784</u>
City: <u>Denver</u> State: <u>CO</u> Zip: <u>80202</u>	

API Number: <u>05-100-08023</u>	County: <u>Adams</u>
Facility Name: <u>Sauvage-61S67W7SEnw</u>	Facility Number: <u>320100</u>
Well Name: <u>Sauvage</u>	Well Number: <u>3</u>
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>SEnw 7 T1S R67W 6PM</u> Latitude: <u>39.985795</u> Longitude: <u>-104.932481</u>	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Unknown, historical impact

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Cultivated

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Platner loam, 0-3% and 3-5% slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Unnamed tributary to Big Dry Creek - adjacent to west, German Reservoir No. 1 - 970 feet north/northwest, Unnamed reservoir - 1330 feet north/northeast

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input checked="" type="checkbox"/> Soils	<u>Approximately 20' x 20' x 10' deep</u>	<u>Soil samples during initial subsurface investigation</u>
<input type="checkbox"/> Vegetation	_____	_____
<input checked="" type="checkbox"/> Groundwater	<u>Unknown</u>	<u>GW samples during initial subsurface investigation</u>
<input type="checkbox"/> Surface Water	_____	_____

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

Soil impacts were discovered during initial subsurface investigation activities at the tank battery between the separator and condensate tanks. Analytical sample results from one source area borehole indicated that soils exceed Table 910-1 concentration levels for TPH. Analytical results for TPH from the remaining boreholes were either below Table 910-1 concentration levels or were not detected. Refer to attached figure, table, and laboratory reports for borehole/sample locations and laboratory analytical results.

Describe how source is to be removed:

Operator will either dig and haul or treat any soils onsite that exceed Table 910-1 concentration levels.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

Source removal will be conducted through impacted soil excavation or treatment of impacted soils. Impacted soils will either be excavated for disposal or treated onsite. Confirmation wall and base soil samples will be collected and analyzed for BTEX and TPH-GRO and TPH-DRO. If necessary, excavated soils will be disposed of properly at a licensed disposal facility that has yet to be determined. If necessary and to enhance remediation, Chemically Oxygenated Granular Activated Carbon (COGAC™), an activated carbon and oxygen releasing remediation product, will be utilized as a remedial backfill in the exposed groundwater at the base of the excavation cavity.

FORM
27
Rev 6/99

State of Colorado
Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801, Denver, Colorado 80203
(303)894-2100 Fax: (303)894-2109



Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

Page 2

REMEDIATION WORKPLAN (Cont.)

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

Groundwater was encountered at 4-8 ft. bgs. during the initial subsurface investigation. Refer to attached figure, table, and laboratory reports for borehole/sample locations and laboratory analytical results. Analytical sample results from four source area boreholes indicated that groundwater exceeded Table 910-1 standards for benzene. Ethylbenzene concentrations exceeded Table 910-1 standards in three of the four source area boreholes. Benzene was reported at a concentration below its Table 910-1 standard in one additional groundwater sample. BTEX was not detected in the remaining groundwater samples. Operator proposes to install up to 4 groundwater monitoring wells to monitor until 4 consecutive quarters of analytical results below Table 910-1 concentration levels for BTEX are obtained. Monitoring wells will remain in place until project closure.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

If necessary, the site will be reclaimed in accordance with the COGCC 1000 series rules.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? Y N If yes, describe:

Initial site investigation activities were sufficient to determine extent of impacts. Remediation activities will begin within 90 days of the approval of this form by COGCC.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

If necessary, impacted soils will be disposed of at a licensed disposal facility that has yet to be determined.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: _____ Date Site Investigation Completed: _____ Date Remediation Plan Submitted: _____
Remediation Start Date: _____ Anticipated Completion Date: _____ Actual Completion Date: _____

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Scot Donato Signed: [Signature]
Title: EH&S/Regulatory Manager Date: 072196

OGCC Approved: _____ Title: _____ Date: _____



SB8
 BTEX- ND
 GRO&DRO Water- ND
 TPH Soil (8' bgs)- ND
 pH Soil (8' bgs)-9.11
 EC Soil (8' bgs)- 0.572 mmhos/cm

SB7
 BTEX- ND
 GRO&DRO Water- ND
 TPH Soil (7' bgs)- ND
 pH Soil (7' bgs)-8.47
 EC Soil (7' bgs)- 0.524 mmhos/cm

SB6
 BTEX- ND
 GRO&DRO Water- ND
 TPH Soil (7.5' bgs)- ND
 pH Soil (7.5' bgs)-8.26
 EC Soil (7.5' bgs)- 0.525 mmhos/cm

SB10
Benzene- 1,220 ug/L
 Toluene- ND
Ethylbenzene- 1,050 ug/L
 Xylenes- 1,210 ug/L
 GRO Water- 6.6 ug/L
 DRO Water- 152 ug/L
 TPH Soil (7' bgs)- 430 mg/kg
 pH Soil (7' bgs)- 8.61
 EC Soil (7' bgs)- 0.930 mmhos/cm
 TPH Soil (11.5'bgs)- 0.00 ug/L

SB13
 Dry
 TPH Soil (7.5' bgs)- ND
 pH Soil- 8.04
 EC Soil- 0.222 mmhos/cm

SB9
Benzene- 108 ug/L
 Toluene- ND
 Ethylbenzene- 633 ug/L
 Xylenes- 3,120 ug/L
 GRO Water- 15.7 ug/L
 DRO Water- 20.9 ug/L
TPH Soil (5.5' bgs)- 866 mg/kg
 pH Soil (5.5' bgs)- 7.71
 EC Soil (5.5' bgs)- 1.22 mmhos/cm

SB5
 BTX- ND, E- 300 ug/L
 GRO&DRO Water- ND
 TPH Soil (5' bgs)- 333 mg/kg
 pH Soil (5' bgs)- 8.65
 EC Soil (5' bgs)- 0.254 mmhos/cm

SB11
Benzene- 1,100 ug/L
 Toluene- ND
Ethylbenzene- 1,760 ug/L
 Xylenes- 583 ug/L
 GRO Water- 7.2 ug/L
 DRO Water- 15.7 ug/L
 pH Water- 7.41
 EC Water- 12,700 uS/cm
 Chlorides Water- 753 mg/L
 TPH Soil (7.5' bgs)- 369 mg/kg
 pH Soil (7.5' bgs)- 8.82
 EC Soil (7.5' bgs)- 0.875 mmhos/cm

SB14
 0.00 PID Reading
 Visibly Clean
 Not Analyzed

SB12
 BTEX- ND
 GRO&DRO Water- ND
 pH Water- 7.25
 EC Water- 16,700 uS/cm
 Chlorides Water- 1920 mg/L
 TPH Soil (8' bgs)- ND
 pH Soil (8' bgs)- 8.11
 EC Soil (8' bgs)- 0.502 mmhos/cm

SB3
 BTEX - ND
 GRO&DRO Water- ND
 Oil and Grease Water- 9.47 mg/L
 TPH Soil (5' bgs)- ND
 pH Soil (5' bgs)- 8.28
 EC Soil (5' bgs)- 0.556 mmhos/cm

SB4
Benzene- 2,470 ug/L
 Toluene- ND
Ethylbenzene- 1,480 ug/L
 Xylenes- 6,590 ug/L
 GRO Water- 18.6 ug/L
 DRO Water- 18.6 ug/L
 TPH Soil (2' bgs)- 236.2 mg/kg
 pH Soil (2' bgs)- 9.19
 EC Soil (2' bgs)- 0.730 mmhos/cm
 TPH Soil (5.5' bgs)- 236.2 mg/kg
 pH Soil (5.5' bgs)- 9.76
 EC Soil (5.5' bgs)- 0.673 mmhos/cm

SB1
 B- 2, TEX - ND
 GRO&DRO Water- ND
 pH Water-7.29
 TDS Water- 6560 mg/L
 Chlorides Water- 800 mg/L
 TPH Soil- ND
 pH Soil (5' bgs)- 7.76
 EC Soil (5' bgs)- 0.448 mmhos/cm

SB2
 BTEX - ND
 GRO&DRO Water- ND
 TPH Soil (5' bgs)- ND
 pH Soil (5' bgs)- 7.82
 EC Soil (5' bgs)- 0.549 mmhos/cm



PROJECT NO:	015-1824
DRAWN BY:	NG
DATE:	7/16/15

Sauvage Tank Battery

4690 TABLE MOUNTAIN DRIVE, SUITE 200
 GOLDEN, CO 80403
 TEL 303.237.2072
 FAX 303.237.2659

- Sample Boring
- BBC Lease
- ← Estimated Ground Water Flow

FIGURE 1
 DRAFT

**Table 1
Soil and Ground Water Analytical Summary
Sauvage Tank Battery
Adams County, Colorado**

Site Name	Sample Number	Sample Date	Sample Depth (ft-bgs)	Sample Matrix	BTEX (µg/L)				TPH (mg/kg)soil (µg/L) water			mg/L	mmhos/cm soil (µS/cm) water	mg/L	mg/L	Boring Location	
					Benzene	Toluene ¹	Ethylbenzene	Total Xylenes ¹	GRO (C6-C10 Range)	DRO (C10-C28 Range)	TPH=GRO+DRO						Oil and Grease
COGCC Table 910-1 Concentration Levels					5	1000	700	10,000	500	500	500						
Sauvage	SB1-GW	7/13/2015	N/A	Water	1.7	ND	ND	ND	ND	ND	n/a	NA	7.29	n/a	6560	800	South edge of pad
	SB1-5'	7/13/2015	5'	Soil	NA				ND	ND	ND	n/a	NA	7.76	0.448	n/a	
	SB2-GW	7/13/2015	N/A	Water	ND	ND	ND	ND	ND	ND	n/a	NA	n/a	n/a	NA	NA	South of seperator
	SB2-5'	7/13/2015	5'	Soil	NA				ND	ND	ND	n/a	NA	7.82	0.549	n/a	
	SB3-GW	7/13/2015	N/A	Water	ND	ND	ND	ND	ND	ND	n/a	NA	9.47	n/a	NA	NA	East of seperator
	SB3-5'	7/13/2015	5'	Soil	NA				ND	ND	ND	n/a	NA	8.28	0.556	n/a	
	SB4-GW	7/13/2015	N/A	Water	2,470	ND	1,480	6,590	18.6	7.4	26.0	NA	n/a	n/a	NA	NA	North of seperator
	SB4-24"	7/13/2015	2'	Soil	NA				ND	ND	ND	n/a	NA	9.19	0.730	n/a	
	SB4-5.5'	7/13/2015	5.5'	Soil	NA				98.2	138	236.2	n/a	NA	9.76	0.673	n/a	
	SB5-GW	7/13/2015	N/A	Water	ND	ND	300	ND	ND	ND	n/a	NA	n/a	n/a	NA	NA	South of tank battery
	SB5-8'	7/13/2015	5'	Soil	NA				177	156	333	n/a	NA	8.65	0.254	n/a	
	SB6-GW	7/13/2015	N/A	Water	ND	ND	ND	ND	ND	ND	n/a	NA	n/a	n/a	NA	NA	East of tank battery
	SB6-7.5'	7/13/2015	7.5'	Soil	NA				ND	ND	ND	n/a	NA	8.26	0.525	n/a	
	SB7-GW	7/13/2015	N/A	Water	ND	ND	ND	ND	ND	ND	n/a	NA	n/a	n/a	NA	NA	North of tank battery
	SB7-7'	7/13/2015	7'	Soil	NA				ND	ND	ND	n/a	NA	8.47	0.524	n/a	
	SB8-GW	7/13/2015	N/A	Water	ND	ND	ND	ND	ND	ND	n/a	NA	n/a	n/a	NA	NA	West of tank battery
	SB8-8'	7/13/2015	8'	Soil	NA				ND	ND	ND	n/a	NA	9.11	0.572	n/a	
	SB9-GW	7/15/2015	N/A	Water	108	ND	633	3,120	15.7	20.9	n/a	48.2	n/a	n/a	NA	NA	Between tank battery and seperator
	SB9-5.5'	7/15/2015	5.5'	Soil	NA				365	501	866	n/a	7.71	1.22	n/a	NA	
	SB10-GW	7/15/2015	N/A	Water	1,220	ND	1,050	1,210	6.6	152	159	NA	NA	NA	NA	NA	Eastern boundary between tank battery and seperator
SB10-7'	7/15/2015	7'	Soil	NA				241	189	430	n/a	8.61	0.930	n/a	NA		
SB10R-11.5'	7/17/2015	11.5'	Soil	NA				ND	ND	ND	n/a	NA	n/a	n/a	NA		
SB11-GW	7/15/2015	N/A	Water	1,100	ND	1,760	583	7.2	15.7	n/a	NA	7.41	12,700	NA	753	Eastern boundary near seperator	
SB11-7.5'	7/15/2015	7.5'	Soil	NA				218	151	369	n/a	8.82	0.875	n/a	NA		
SB12-GW	7/15/2015	N/A	Water	ND	ND	ND	ND	ND	ND	n/a	NA	7.25	16,700	NA	1,920	Western boundary near seperator	
SB12-8'	7/15/2015	8'	Soil	NA				ND	ND	ND	n/a	8.11	0.502	n/a	NA		
SB13-7.5'	7/15/2015	7.5'	Soil	NA				ND	ND	ND	n/a	8.04	0.222	n/a	NA	Western boundary near tank battery	

Colorado Oil and Gas Conservation Commission (COGCC), 900 Series, Exploration and Production Waste Management, Table 910-1, Concentration Levels, February 1, 2014

- * - Petroleum sheen was observed on the groundwater sample
- ** - Hydrocarbon staining in soil was observed in the capillary fringe
- mg/kg - Milligrams per kilogram
- µg/L - Micrograms per liter
- Bold** - Above COGCC Table 910-1 concentration level
- ¹ - Drinking water standard
- ft-bgs - Feet below ground surface
- mmhos/cm - millimhos per centimeter
- µS/cm - microSiemens per centimeter
- GRO - Gasoline range organics
- DRO - Diesel range organics
- BTEX - Benzene, toluene, ethylbenzene, total xylenes
- TPH - Total petroleum hydrocarbons
- ND - Sample not reported at or above laboratory reporting limit
- NA - Not Analyzed
- n/a - Not Applicable
- Indicates a groundwater sample

July 15, 2015

Olsson Associates

Nikki Graber

4690 Table Mountain Drive

Golden CO 80403

Project Name - Sauvage

Project Number - 015-1824

Attached are your analytical results for Sauvage received by Origins Laboratory, Inc. July 14, 2015. This project is associated with Origins project number X507170-01.

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: 015-1824
Project: Sauvage

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB1-5'	X507170-01	Soil	July 13, 2015 9:38	07/14/2015 10:20
SB2-5'	X507170-02	Soil	July 13, 2015 9:58	07/14/2015 10:20
SB3-5'	X507170-03	Soil	July 13, 2015 10:15	07/14/2015 10:20
SB4-24"	X507170-04	Soil	July 13, 2015 11:00	07/14/2015 10:20
SB4-5.5'	X507170-05	Soil	July 13, 2015 11:23	07/14/2015 10:20
SB5-8'	X507170-06	Soil	July 13, 2015 11:56	07/14/2015 10:20
SB6-7.5'	X507170-07	Soil	July 13, 2015 14:39	07/14/2015 10:20
SB7-7'	X507170-08	Soil	July 13, 2015 15:00	07/14/2015 10:20
SB8-8'	X507170-09	Soil	July 13, 2015 13:31	07/14/2015 10:20

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: 015-1824
 Project: Sauvage

www.originslaboratory.com
 page 1 of 1

ORIGINS
 LABORATORY, INC

X507170

Client: Olsson Project Manager/Send Report To: Nikki Graber
 Address: 300 East 16th Street Email Address: n.graber@olssonassociates.com
Unit 309 Greeley Co, CO 80631 Project Name/Number: Sauvage 015-1821
 Telephone Number: 928-240-1043 Samples Collected By: MRS / NE

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #		
SB1-5'	7-13	0938	1	X				X			GRO/DRO, EC, PH	mid day Wednesday
SB2-5'		0958	1	Y				Y			GRO, DRO, EC, PH	
SB3-5'		1015	1	X				Y			GRO, DRO, EC, PH	
SB4-24"		1100	1	Y				X			GRO, DRO, EC, PH	
SB4-5.5'		1123	1	X				X			GRO, DRO, EC, PH	
SB5-8'		1156	1	X				Y			GRO, DRO, EC, PH	
SB6-7.5'		1439	1	X				Y			GRO, DRO, EC, PH	
SB7-7'		1500	1	X				Y			GRO, DRO, EC, PH	
SB8-8'		1331	2	X				X			GRO, DRO, EC, PH	

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<i>[Signature]</i>	7/14	1020	<i>[Signature]</i>	7/14/15	1020	Same Day <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Origins Laboratory, Inc.

Jefe Pellegrini

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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-1824
 Project: Sauvage

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XSPH70

Client: Olsson

Client Project ID: Sauvage

Checklist Completed by: Jeff Smith

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

Date/time completed: 7/14/15

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 1.9 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: TO03

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°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			PH
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 HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +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 (Signature) (Project Manager)

7/14/15
 Date/Time Reviewed

Origins Laboratory, Inc.

(Signature)

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: 015-1824
 Project: Sauvage

SB1-5'
7/13/2015 9:38:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507170-01 (Soil)

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

Gasoline (C6-C10)	ND	50.0	mg/kg	1	5G14006	07/14/2015	07/14/2015	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	84.8 %	59-131			"	"	"	
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pH in Soil by EPA 9045D

pH	7.76		pH Units	1	5G14009	07/14/2015	07/14/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.448		mmhos/cm	"	5G14010	07/14/2015	07/14/2015	
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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: 015-1824
 Project: Sauvage

SB2-5'
7/13/2015 9:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X507170-02 (Soil)

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

Gasoline (C6-C10)	ND	50.0	mg/kg	1	5G14006	07/14/2015	07/14/2015	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	77.4 %	59-131			"	"	"	
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pH in Soil by EPA 9045D

pH	7.82		pH Units	1	5G14009	07/14/2015	07/14/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.549		mmhos/cm	"	5G14010	07/14/2015	07/14/2015	
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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: 015-1824
 Project: Sauvage

SB3-5'

7/13/2015 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507170-03 (Soil)

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

Gasoline (C6-C10)	ND	50.0	mg/kg	1	5G14006	07/14/2015	07/14/2015	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	76.6 %	59-131			"	"	"	
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pH in Soil by EPA 9045D

pH	8.28		pH Units	1	5G14009	07/14/2015	07/14/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.556		mmhos/cm	"	5G14010	07/14/2015	07/14/2015	
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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: 015-1824
 Project: Sauvage

SB4-24"

7/13/2015 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507170-04 (Soil)

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

Gasoline (C6-C10)	ND	50.0	mg/kg	1	5G14006	07/14/2015	07/14/2015	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	84.2 %	59-131			"	"	"	
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pH in Soil by EPA 9045D

pH	9.19		pH Units	1	5G14009	07/14/2015	07/14/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.730		mmhos/cm	"	5G14010	07/14/2015	07/14/2015	
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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: 015-1824
 Project: Sauvage

SB4-5.5'

7/13/2015 11:23:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507170-05 (Soil)

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

Gasoline (C6-C10)	98.2	50.0	mg/kg	1	5G14006	07/14/2015	07/14/2015	
Diesel (C10-C28)	138	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	67.1 %	59-131			"	"	"	
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pH in Soil by EPA 9045D

pH	9.76		pH Units	1	5G14009	07/14/2015	07/14/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.673		mmhos/cm	"	5G14010	07/14/2015	07/14/2015	
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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: 015-1824
 Project: Sauvage

SB5-8'

7/13/2015 11:56:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507170-06 (Soil)

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

Gasoline (C6-C10)	177	50.0	mg/kg	1	5G14006	07/14/2015	07/14/2015	
Diesel (C10-C28)	156	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	67.1 %	59-131			"	"	"	
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pH in Soil by EPA 9045D

pH	8.65		pH Units	1	5G14009	07/14/2015	07/14/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.254		mmhos/cm	"	5G14010	07/14/2015	07/14/2015	
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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: 015-1824
 Project: Sauvage

SB6-7.5'

7/13/2015 2:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507170-07 (Soil)

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

Gasoline (C6-C10)	ND	50.0	mg/kg	1	5G14006	07/14/2015	07/14/2015	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	67.2 %	59-131			"	"	"	
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pH in Soil by EPA 9045D

pH	8.26		pH Units	1	5G14009	07/14/2015	07/14/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.525		mmhos/cm	"	5G14010	07/14/2015	07/14/2015	
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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: 015-1824
 Project: Sauvage

SB7-7'
7/13/2015 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507170-08 (Soil)

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

Gasoline (C6-C10)	ND	50.0	mg/kg	1	5G14006	07/14/2015	07/14/2015	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	79.1 %	59-131			"	"	"	
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pH in Soil by EPA 9045D

pH	8.47		pH Units	1	5G14009	07/14/2015	07/14/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.524		mmhos/cm	"	5G14010	07/14/2015	07/14/2015	
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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: 015-1824
 Project: Sauvage

SB8-8'
7/13/2015 1:31:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507170-09 (Soil)

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

Gasoline (C6-C10)	ND	50.0	mg/kg	1	5G14006	07/14/2015	07/14/2015	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	65.1 %	59-131			"	"	"	
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pH in Soil by EPA 9045D

pH	9.11		pH Units	1	5G14009	07/14/2015	07/14/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.572		mmhos/cm	"	5G14010	07/14/2015	07/14/2015	
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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: 015-1824
 Project: Sauvage

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
Batch 5G14006 - EPA 3580										
Blank (5G14006-BLK1)										
					Prepared: 07/14/2015 Analyzed: 07/14/2015					
Gasoline (C6-C10)	ND	50.0	mg/kg							
Diesel (C10-C28)	ND	50.0	"							
Surrogate: o-Terphenyl	44		"	50.0		87.6	59-131			
LCS (5G14006-BS1)										
					Prepared: 07/14/2015 Analyzed: 07/14/2015					
Gasoline (C6-C10)	872	50.0	mg/kg	1000		87.2	59-133			
Diesel (C10-C28)	872	50.0	"	1000		87.2	64-121			
Surrogate: o-Terphenyl	42		"	50.0		84.3	59-131			
Matrix Spike (5G14006-MS1)										
		Source: X507175-01			Prepared: 07/14/2015 Analyzed: 07/14/2015					
Gasoline (C6-C10)	934	50.0	mg/kg	1000	ND	93.4	57-139			
Diesel (C10-C28)	945	50.0	"	1000	17.5	92.7	53-125			
Surrogate: o-Terphenyl	28		"	50.0		56.9	59-131			
Matrix Spike Dup (5G14006-MSD1)										
		Source: X507175-01			Prepared: 07/14/2015 Analyzed: 07/14/2015					
Gasoline (C6-C10)	912	50.0	mg/kg	1000	ND	91.2	57-139	2.34	20	
Diesel (C10-C28)	919	50.0	"	1000	17.5	90.2	53-125	2.75	20	
Surrogate: o-Terphenyl	43		"	50.0		85.0	59-131			

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: 015-1824
 Project: Sauvage

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G14009 - NO PREP										
Duplicate (5G14009-DUP1)		Source: X507170-01			Prepared: 07/14/2015 Analyzed: 07/14/2015					
pH	7.88		pH Units		7.76			1.53	25	
Batch 5G14010 - NO PREP										
Blank (5G14010-BLK1)		Prepared: 07/14/2015 Analyzed: 07/14/2015								
Specific Conductance (EC)	0.00300		mmhos/cm							
Duplicate (5G14010-DUP1)		Source: X507170-01			Prepared: 07/14/2015 Analyzed: 07/14/2015					
Specific Conductance (EC)	0.430		mmhos/cm		0.448			4.10	25	

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: 015-1824
Project: Sauvage

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.



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

July 17, 2015

Olsson Associates

Nikki Graber

4690 Table Mountain Drive

Golden CO 80403

Project Name - Sauvage

Project Number - 015-1824

Attached are your analytical results for Sauvage received by Origins Laboratory, Inc. July 14, 2015. This project is associated with Origins project number X507171-01.

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: 015-1824
Project: Sauvage

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB1-GW	X507171-01	Water	July 13, 2015 13:39	07/14/2015 10:20
SB2-GW	X507171-02	Water	July 13, 2015 13:52	07/14/2015 10:20
SB3-GW	X507171-03	Water	July 13, 2015 14:01	07/14/2015 10:20
SB4-GW	X507171-04	Water	July 13, 2015 14:09	07/14/2015 10:20
SB5-GW	X507171-05	Water	July 13, 2015 14:21	07/14/2015 10:20
SB6-GW	X507171-06	Water	July 13, 2015 17:22	07/14/2015 10:20
SB7-GW	X507171-07	Water	July 13, 2015 17:11	07/14/2015 10:20
SB8-GW	X507171-08	Water	July 13, 2015 17:28	07/14/2015 10:20
Trip Blank	X507171-09	Water	July 13, 2015 0:00	07/14/2015 10:20

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: 015-1824
 Project: Sauvage

ORIGINS
 LABORATORY, INC

X507171

www.originslaboratory.com

page _____ of _____

Client: Olsson Project Manager/Send Report To: Nikki Graber
 Address: 300 East 16th Street Email Address: n.graber@olssonassociates.com
Unit 309 Greeley Co, 80631 Project Name/Number: Sauvage 015-1824
 Telephone Number: 928-240-1043 Samples Collected By: MKS/AG

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #		
SB1-GW	7-13	1339	7	X				X			BTEX, GRO/DRO, CHLORIDES, CHLIDS	Mid day, Unknown
SB2-GW	7-13	1352	6	X				X			BTEX, GRO/DRO	
SB3-GW	7-13	1401	7	X				X			BTEX, GRO/DRO	
SB4-GW	7-13	1409	6	X				X			BTEX, OIL+GAS	
SB5-GW	7-13	1421	6	X				X			BTEX, GRO/DRO	
SB6-GW	7-13	1722	3	X				X			BTEX, GRO/DRO	
SB7-GW	7-13	1711	3	X				X			BTEX	
SB8-GW	7-13	1728	2	X				X			BTEX	
Trip Blank											BTEX	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:						
<i>[Signature]</i>	7/14/15	1020	<i>[Signature]</i>	7/14/15	1020	Same Day <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>						

Comments:

Origins Laboratory, Inc.

Jefe Pellegrini

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: 015-1824
 Project: Sauvage

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XSO7171

Client: Olsson

Client Project ID: Sauvage

Checklist Completed by: Jeff Smith

Shipped Via: H/D
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 7/14/15

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 1.9 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: T603

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°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			PH
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	7/14/15 PH		All Samples Contain headspace
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			HCL
Additional Comments (if any): Oil/Grease was submitted in incorrect sample container. Sample was transferred from 1L bag unopened to 9 1/2 Amber vials HCL. Client (Nikki G) was notified by email, proceed with analysis. 7/14/15 Jeff S				

⁽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) [Signature]

Date/Time Reviewed 7/14/15

Origins Laboratory, Inc.

[Signature: Jen Pellegrini]

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: 015-1824
 Project: Sauvage

SB1-GW

7/13/2015 1:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X507171-01 (Water)

Anions by EPA 300.0

Chloride	800	40.0	mg/L	200	1492854		07/16/2015	
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BTEX by EPA 8260C

Benzene	1.7	1.0	ug/L	1	5G14007	07/14/2015	07/14/2015	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %	87.3-113			"	"	"	
Surrogate: Toluene-d8	105 %	90.9-108			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	88.6-111			"	"	"	

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

Gasoline (C6-C10)	ND	5.0	mg/L	1	5G14012	07/14/2015	07/15/2015	
Diesel (C10-C28)	ND	5.0	"	"	"	"	"	

Surrogate: o-Terphenyl	65.9 %	54-117			"	"	"	
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pH in Water by EPA 9040C

pH	7.29		pH Units	1	5G14011	07/14/2015	07/14/2015	
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TDS by SM2540C

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: 015-1824
Project: Sauvage

SB1-GW

7/13/2015 1:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X507171-01 (Water)

TDS by SM2540C

Total Dissolved Solids	6560	33.3	mg/L	1	1492757		07/15/2015	
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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: 015-1824
 Project: Sauvage

SB2-GW

7/13/2015 1:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507171-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5G14007	07/14/2015	07/14/2015	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	110 %	87.3-113			"	"	"	
Surrogate: Toluene-d8	98.7 %	90.9-108			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	88.6-111			"	"	"	

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

Gasoline (C6-C10)	ND	5.0	mg/L	1	5G14012	07/14/2015	07/15/2015	
Diesel (C10-C28)	ND	5.0	"	"	"	"	"	

Surrogate: o-Terphenyl	76.3 %	54-117			"	"	"	
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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: 015-1824
 Project: Sauvage

SB3-GW

7/13/2015 2:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507171-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5G14007	07/14/2015	07/14/2015	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %	87.3-113			"	"	"	
Surrogate: Toluene-d8	93.2 %	90.9-108			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	88.6-111			"	"	"	

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

Gasoline (C6-C10)	ND	5.0	mg/L	1	5G14012	07/14/2015	07/15/2015	
Diesel (C10-C28)	ND	5.0	"	"	"	"	"	

Surrogate: o-Terphenyl	74.5 %	54-117			"	"	"	
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Oil & Grease by EPA 1664A

n-Hexane Extractable Material	9.47	5.26	mg/L	1	1493021		07/16/2015	
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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: 015-1824
 Project: Sauvage

SB4-GW

7/13/2015 2:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507171-04 (Water)

BTEX by EPA 8260C

Benzene	2470	20.0	ug/L	20	5G14007	07/14/2015	07/14/2015	
Toluene	ND	20.0	"	"	"	"	"	
Ethylbenzene	1480	20.0	"	"	"	"	"	
Xylenes, total	6590	20.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	107 %	87.3-113			"	"	"	
Surrogate: Toluene-d8	98.5 %	90.9-108			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	88.6-111			"	"	"	

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

Gasoline (C6-C10)	18.6	5.0	mg/L	1	5G14012	07/14/2015	07/15/2015	
Diesel (C10-C28)	7.4	5.0	"	"	"	"	"	

Surrogate: o-Terphenyl	63.8 %	54-117			"	"	"	
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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: 015-1824
 Project: Sauvage

SB5-GW

7/13/2015 2:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507171-05 (Water)

BTEX by EPA 8260C

Benzene	ND	4.0	ug/L	4	5G14007	07/14/2015	07/14/2015	
Toluene	ND	4.0	"	"	"	"	"	
Ethylbenzene	300	4.0	"	"	"	"	"	
Xylenes, total	ND	4.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	107 %	87.3-113			"	"	"	
Surrogate: Toluene-d8	99.6 %	90.9-108			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	88.6-111			"	"	"	

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

Gasoline (C6-C10)	ND	5.0	mg/L	1	5G14012	07/14/2015	07/15/2015	
Diesel (C10-C28)	ND	5.0	"	"	"	"	"	

Surrogate: o-Terphenyl	84.8 %	54-117			"	"	"	
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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: 015-1824
 Project: Sauvage

SB6-GW

7/13/2015 5:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507171-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5G14007	07/14/2015	07/14/2015	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	105 %	87.3-113			"	"	"	
Surrogate: Toluene-d8	99.5 %	90.9-108			"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	88.6-111			"	"	"	

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-1824
 Project: Sauvage

SB7-GW

7/13/2015 5:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507171-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5G14007	07/14/2015	07/14/2015	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	103 %	87.3-113			"	"	"	
Surrogate: Toluene-d8	100 %	90.9-108			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	88.6-111			"	"	"	

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: 015-1824
 Project: Sauvage

SB8-GW

7/13/2015 5:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507171-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5G14007	07/14/2015	07/14/2015	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	103 %	87.3-113			"	"	"	
Surrogate: Toluene-d8	99.5 %	90.9-108			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	88.6-111			"	"	"	

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-1824
 Project: Sauvage

Trip Blank
7/13/2015 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507171-09 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5G14007	07/14/2015	07/14/2015	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %	87.3-113			"	"	"	
<i>Surrogate: Toluene-d8</i>	101 %	90.9-108			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	99.5 %	88.6-111			"	"	"	

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: 015-1824
 Project: Sauvage

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 5G14007 - EPA 5030B (Water)

Blank (5G14007-BLK1)

Prepared: 07/14/2015 Analyzed: 07/14/2015

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5	97.0		87.3-113			
Surrogate: Toluene-d8	62		"	62.5	98.7		90.9-108			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	98.7		88.6-111			

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: 015-1824
 Project: Sauvage

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 5G14007 - EPA 5030B (Water)

LCS (5G14007-BS1)

Prepared: 07/14/2015 Analyzed: 07/14/2015

Benzene	48.1	1.0	ug/L				75-126			
Toluene	48.3	1.0	"				78.7-126			
Ethylbenzene	49.1	1.0	"				80-130			
m,p-Xylene	98.9	2.0	"				77.2-133			
o-Xylene	49.4	1.0	"				77.9-126			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.2	87.3-113			
Surrogate: Toluene-d8	63		"	62.5		101	90.9-108			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.6	88.6-111			

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-1824
 Project: Sauvage

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 5G14007 - EPA 5030B (Water)

Matrix Spike (5G14007-MS1)	Source: X507163-11			Prepared: 07/14/2015 Analyzed: 07/14/2015						
Benzene	48.9	1.0	ug/L		ND		74-130			
Toluene	51.1	1.0	"		ND		73-131			
Ethylbenzene	49.6	1.0	"		ND		76-132			
m,p-Xylene	98.8	2.0	"		ND		69-139			
o-Xylene	48.5	1.0	"		ND		74-131			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	87.3-113			
Surrogate: Toluene-d8	66		"	62.5		105	90.9-108			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	88.6-111			

Origins Laboratory, Inc.



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 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-1824
 Project: Sauvage

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 5G14007 - EPA 5030B (Water)

Matrix Spike Dup (5G14007-MSD1)	Source: X507163-11			Prepared: 07/14/2015 Analyzed: 07/14/2015						
Benzene	53.5	1.0	ug/L		ND		74-130	9.10	20	
Toluene	50.5	1.0	"		ND		73-131	1.26	20	
Ethylbenzene	56.6	1.0	"		ND		76-132	13.2	20	
m,p-Xylene	110	2.0	"		ND		69-139	11.2	20	
o-Xylene	54.8	1.0	"		ND		74-131	12.3	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.5	87.3-113			
Surrogate: Toluene-d8	60		"	62.5		96.3	90.9-108			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		96.8	88.6-111			

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-1824
 Project: Sauvage

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 5G14012 - EPA 3511 Mod.

Blank (5G14012-BLK1)

Prepared: 07/14/2015 Analyzed: 07/15/2015

Gasoline (C6-C10)	ND	5.0	mg/L							
Diesel (C10-C28)	ND	5.0	"							
Surrogate: o-Terphenyl	3.7		"	5.00		74.2	54-117			

LCS (5G14012-BS1)

Prepared: 07/14/2015 Analyzed: 07/15/2015

Gasoline (C6-C10)	87.6	5.0	mg/L	100		87.6	69-125			
Diesel (C10-C28)	91.5	5.0	"				61-120			
Surrogate: o-Terphenyl	4.3		"	5.00		85.6	54-117			

Matrix Spike (5G14012-MS1)

Source: X507171-01

Prepared: 07/14/2015 Analyzed: 07/15/2015

Gasoline (C6-C10)	84.4	5.0	mg/L	100	ND	84.4	70-127			
Diesel (C10-C28)	92.5	5.0	"		2.4		54-126			
Surrogate: o-Terphenyl	4.9		"	5.00		97.4	54-117			

Matrix Spike Dup (5G14012-MSD1)

Source: X507171-01

Prepared: 07/14/2015 Analyzed: 07/15/2015

Gasoline (C6-C10)	83.4	5.0	mg/L	100	ND	83.4	70-127	1.20	20	
Diesel (C10-C28)	90.6	5.0	"		2.4		54-126	2.11	20	
Surrogate: o-Terphenyl	4.3		"	5.00		85.5	54-117			

Origins Laboratory, Inc.



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 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-1824
 Project: Sauvage

Classical Chemistry Parameters - 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 5G14011 - NO PREP

Duplicate (5G14011-DUP1)

Source: X507171-01

Prepared: 07/14/2015 Analyzed: 07/14/2015

pH	7.29		pH Units		7.29			0.00	200	
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Origins Laboratory, Inc.



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 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-1824
 Project: Sauvage

Anions by EPA 300.0 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1492854 -										
BLANK (1203354860-BLK)					Prepared: Analyzed: 07/15/2015					
Chloride	ND	0.200	mg/L				-			U
LCS (1203354861-BKS)					Prepared: Analyzed: 07/15/2015					
Chloride	5.05	0.200	mg/L	5.00		101	90-110			
DUP (1203354862 D)					Source: 377149003 Prepared: Analyzed: 07/16/2015					
Chloride	160	5.00	mg/L		160		0-20	0.0407	20	
PS (1203354863 S)					Source: 377149003 Prepared: Analyzed: 07/16/2015					
Chloride	302	5.00	mg/L	5.00		114	90-110			

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-1824
 Project: Sauvage

Oil & Grease by EPA 1664A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1493021 -

BLANK (1203355334-BLK)

Prepared: Analyzed: 07/16/2015

n-Hexane Extractable Material	ND	5.00	mg/L				-			U
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LCS (1203355335-BKS)

Prepared: Analyzed: 07/16/2015

n-Hexane Extractable Material	32.5	5.00	mg/L	40.0		81.3	77-107			
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Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-1824
 Project: Sauvage

TDS by SM2540C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1492757 -										
BLANK (1203354609-BLK)					Prepared: Analyzed: 07/15/2015					
Total Dissolved Solids	ND	14.3	mg/L				-			U
LCS (1203354610-BKS)					Prepared: Analyzed: 07/15/2015					
Total Dissolved Solids	301	14.3	mg/L	300		100	95-105			

Origins Laboratory, Inc.



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Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 015-1824
Project: Sauvage

Notes and Definitions

U Result not detected above the detection limit

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

July 16, 2015

Olsson Associates

Nikki Graber

4690 Table Mountain Drive

Golden CO 80403

Project Name - Sauvage

Project Number - 015-1824

Attached are your analytical results for Sauvage received by Origins Laboratory, Inc. July 15, 2015. This project is associated with Origins project number X507203-01.

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: 015-1824
Project: Sauvage

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB9-5.5'	X507203-01	Soil	July 15, 2015 9:58	07/15/2015 17:10
SB10-7'	X507203-02	Soil	July 15, 2015 10:22	07/15/2015 17:10
SB11-7.5'	X507203-03	Soil	July 15, 2015 11:30	07/15/2015 17:10
SB12-8'	X507203-04	Soil	July 15, 2015 12:20	07/15/2015 17:10
SB13-7.5'	X507203-05	Soil	July 15, 2015 12:59	07/15/2015 17:10

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: 015-1824
 Project: Sauvage

ORIGINS
 LABORATORY, INC

X50703

www.originslaboratory.com

page 1 of 1

Client: Olsson Project Manager/Send Report To: Nikki Graber
 Address: 300 E 16th St S. 300 Email Address: ngrab@olssonassociates.com
Greeley CO 80631 Project Name/Number: Sauvage
 Telephone Number: 928-240-1043 Samples Collected By: NH & MS

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summ #			Other
SB9-6.5'	7/15	0658	1 X					X					1
SB10-7'		1022	1 X					X					2
SB11-7.5'		1130	1 X					X					3
SB12-8'		1220	1 X					X					4
SB13-9.5'		1259	1 X					X					5
													6
													7
													8
													9
													10
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:							
<i>[Signature]</i>	7/15/15	1710	<i>[Signature]</i>	7/15/15	1710	Same Day <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/>							
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>							
<i>[Signature]</i>	7/15/15	1710	<i>[Signature]</i>	7/15/15	1710	Standard <input type="checkbox"/>							

Comment:

Date Sampled Mandatory

Origins Laboratory, Inc.

Jefe Pellegrini

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: 015-1824
 Project: Sauvage

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XS07203

Client: Olsson

Client Project ID: Sauvage

Checklist Completed by: Jeff Smith

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

Date/time completed: 7/15/12

Airbill #: NA

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

Cooler Number/Temperature: 1 / 4.5 °C 1 °C 1 °C _____ °C (Describe)

Thermometer ID: J603

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"/>			
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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			PH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<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.

Jeff Smith
 Reviewed by (Project Manager)

7/15/12
 Date/Time Reviewed

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: 015-1824
 Project: Sauvage

SB9-5.5'

7/15/2015 9:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X507203-01 (Soil)

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

Gasoline (C6-C10)	365	50.0	mg/kg	1	5G15006	07/15/2015	07/15/2015	
Diesel (C10-C28)	501	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	94.6 %	59-131			"	"	"	
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pH in Soil by EPA 9045D

pH	7.71		pH Units	1	5G15008	07/15/2015	07/15/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.22		mmhos/cm	"	5G15012	07/15/2015	"	
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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: 015-1824
 Project: Sauvage

SB10-7'

7/15/2015 10:22:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507203-02 (Soil)

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

Gasoline (C6-C10)	241	50.0	mg/kg	1	5G15006	07/15/2015	07/15/2015	
Diesel (C10-C28)	189	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	89.2 %	59-131			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

pH in Soil by EPA 9045D

pH	8.61		pH Units	1	5G15008	07/15/2015	07/15/2015	
----	------	--	----------	---	---------	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.930		mmhos/cm	"	5G15012	07/15/2015	"	
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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: 015-1824
 Project: Sauvage

SB11-7.5'
7/15/2015 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507203-03 (Soil)

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

Gasoline (C6-C10)	218	50.0	mg/kg	1	5G15006	07/15/2015	07/15/2015	
Diesel (C10-C28)	151	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	92.2 %	59-131			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

pH in Soil by EPA 9045D

pH	8.82		pH Units	1	5G15008	07/15/2015	07/15/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.875		mmhos/cm	"	5G15012	07/15/2015	"	
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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: 015-1824
 Project: Sauvage

SB12-8'

7/15/2015 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507203-04 (Soil)

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

Gasoline (C6-C10)	ND	50.0	mg/kg	1	5G15006	07/15/2015	07/15/2015	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	89.3 %	59-131			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

pH in Soil by EPA 9045D

pH	8.11		pH Units	1	5G15008	07/15/2015	07/15/2015	
----	------	--	----------	---	---------	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.502		mmhos/cm	"	5G15012	07/15/2015	"	
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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: 015-1824
 Project: Sauvage

SB13-7.5'

7/15/2015 12:59:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507203-05 (Soil)

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

Gasoline (C6-C10)	ND	50.0	mg/kg	1	5G15006	07/15/2015	07/15/2015	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	88.3 %	59-131			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

pH in Soil by EPA 9045D

pH	8.04		pH Units	1	5G15008	07/15/2015	07/15/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.222		mmhos/cm	"	5G15012	07/15/2015	"	
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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: 015-1824
 Project: Sauvage

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
Batch 5G15006 - EPA 3580										
Blank (5G15006-BLK1)					Prepared: 07/15/2015 Analyzed: 07/15/2015					
Gasoline (C6-C10)	ND	50.0	mg/kg							
Diesel (C10-C28)	ND	50.0	"							
Surrogate: o-Terphenyl	46		"	50.0		92.4	59-131			
LCS (5G15006-BS1)					Prepared: 07/15/2015 Analyzed: 07/15/2015					
Gasoline (C6-C10)	923	50.0	mg/kg	1000		92.3	59-133			
Diesel (C10-C28)	926	50.0	"				64-121			
Surrogate: o-Terphenyl	50		"	50.0		99.3	59-131			
Matrix Spike (5G15006-MS1)					Source: X507187-01		Prepared: 07/15/2015 Analyzed: 07/15/2015			
Gasoline (C6-C10)	893	50.0	mg/kg	1000	ND	89.3	57-139			
Diesel (C10-C28)	909	50.0	"		16.5		53-125			
Surrogate: o-Terphenyl	48		"	50.0		95.8	59-131			
Matrix Spike Dup (5G15006-MSD1)					Source: X507187-01		Prepared: 07/15/2015 Analyzed: 07/15/2015			
Gasoline (C6-C10)	964	50.0	mg/kg	1000	ND	96.4	57-139	7.64	20	
Diesel (C10-C28)	961	50.0	"		16.5		53-125	5.60	20	
Surrogate: o-Terphenyl	53		"	50.0		106	59-131			

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: 015-1824
 Project: Sauvage

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G15008 - NO PREP										
Duplicate (5G15008-DUP1)		Source: X507194-01			Prepared: 07/15/2015 Analyzed: 07/15/2015					
pH	7.56		pH Units		7.56			0.00	25	
Batch 5G15012 - NO PREP										
Blank (5G15012-BLK1)		Prepared: 07/15/2015 Analyzed: 07/15/2015								
Specific Conductance (EC)	0.00330		mmhos/cm							
Duplicate (5G15012-DUP1)		Source: X507199-01			Prepared: 07/15/2015 Analyzed: 07/15/2015					
Specific Conductance (EC)	0.0202		mmhos/cm		0.0209			3.41	25	

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: 015-1824
Project: Sauvage

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.



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



July 17, 2015

Olsson Associates

Nikki Graber

4690 Table Mountain Drive

Golden CO 80403

Project Name - Sauvage

Project Number - 015-1824

Attached are your analytical results for Sauvage received by Origins Laboratory, Inc. July 15, 2015. This project is associated with Origins project number X507204-01.

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
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 015-1824
Project: Sauvage

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB9-GW	X507204-01	Water	July 15, 2015 14:39	07/15/2015 17:10
SB10-GW	X507204-02	Water	July 15, 2015 15:59	07/15/2015 17:10
SB11-GW	X507204-03	Water	July 15, 2015 15:15	07/15/2015 17:10
SB12-GW	X507204-04	Water	July 15, 2015 15:36	07/15/2015 17:10
Trip Blank	X507204-05	Water	July 15, 2015 0:00	07/15/2015 17:10

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: 015-1824
 Project: Sauvage

www.originslaboratory.com

XS07204

page 1 of 1

ORIGINS
 LABORATORY, INC

Client: OLSSON Project Manager/Send Report To: Nikki Graber
 Address: 200 E 16th S300 Email Address: ngrab@olssonassociates.com
Golden CO 80631 Project Name/Number: Nikki Graber Sauvage
 Telephone Number: 303-240-1043 Samples Collected By: MS + MS

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9445

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summ #		
SB9-GW	7/15/15	1439	7		X			X			BTEX GRO/DRO	Oil + Grease 1
SB10-GW		1559	5		X			X			BTEX GRO/DRO	2
SB11-GW		1515	8		X			X			BTEX GRO/DRO/PAH/EC/Chlorides	114
SB12-GW		1536	8		X			X			BTEX	5
Trip Blank			2									
												*All water tested 6
												W/ HCl - MAY 7
												develop methods ACC 8
												9
												10
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:						
<u>MS</u>	<u>7/15/15</u>	<u>1710</u>	<u>MS</u>	<u>7/15/15</u>	<u>1710</u>	Same Day <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/>						
						48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>						
						Standard <input type="checkbox"/>						

11 6 Data Results Worksheet

Comments:

Origins Laboratory, Inc.

Jefe Pellegrini

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: 015-1824
 Project: Sauvage

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XS07204

Client: Olsson

Client Project ID: Sauvage

Checklist Completed by: Jefe Sm-h

Shipped Via: H/D
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 7/15/15

Airbill #: 127

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

Cooler Number/Temperature: 1 / 4.5 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: T0023

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"/>			
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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			PH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		7/15/15 (S)
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)	<input checked="" type="checkbox"/>			HCC
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.

Jefe Sm-h
 Reviewed by (Project Manager)

7/15/15
 Date/Time Reviewed

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: 015-1824
 Project: Sauvage

SB9-GW

7/15/2015 2:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507204-01 (Water)

BTEX by EPA 8260C

Benzene	108	20.0	ug/L	20	5G15011	07/15/2015	07/15/2015	
Toluene	ND	20.0	"	"	"	"	"	
Ethylbenzene	633	20.0	"	"	"	"	"	
Xylenes, total	3120	20.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %	87.3-113			"	"	"	
Surrogate: Toluene-d8	99.2 %	90.9-108			"	"	"	
Surrogate: 4-Bromofluorobenzene	90.7 %	88.6-111			"	"	"	

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

Gasoline (C6-C10)	15.7	5.0	mg/L	1	5G15013	07/15/2015	07/17/2015	
Diesel (C10-C28)	20.9	5.0	"	"	"	"	"	

Surrogate: o-Terphenyl	95.4 %	54-117			"	"	"	
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Oil & Grease by EPA 1664A

n-Hexane Extractable Material	48.2	5.43	mg/L	1	1493488		07/17/2015	
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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: 015-1824
 Project: Sauvage

SB10-GW
7/15/2015 3:59:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X507204-02 (Water)

BTEX by EPA 8260C

Benzene	1220	20.0	ug/L	20	5G15011	07/15/2015	07/16/2015	
Toluene	ND	20.0	"	"	"	"	"	
Ethylbenzene	1050	20.0	"	"	"	"	"	
Xylenes, total	1210	20.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	87.3-113			"	"	"	
Surrogate: Toluene-d8	103 %	90.9-108			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.2 %	88.6-111			"	"	"	

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

Gasoline (C6-C10)	6.6	5.0	mg/L	1	5G15013	07/15/2015	07/17/2015	
Diesel (C10-C28)	152	5.0	"	"	"	"	"	

Surrogate: o-Terphenyl	106 %	54-117			"	"	"	
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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: 015-1824
 Project: Sauvage

SB11-GW
7/15/2015 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X507204-03 (Water)

Anions by EPA 300.0

Chloride	753	20.0	mg/L	100	1493527		07/17/2015	
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BTEX by EPA 8260C

Benzene	1100	40.0	ug/L	40	5G15011	07/15/2015	07/16/2015	
Toluene	ND	4.0	"	4	"	"	07/16/2015	
Ethylbenzene	1760	40.0	"	40	"	"	07/16/2015	
Xylenes, total	583	4.0	"	4	"	"	07/16/2015	

Surrogate: 1,2-Dichloroethane-d4	107 %	87.3-113			"	"	"	
Surrogate: Toluene-d8	99.7 %	90.9-108			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %	88.6-111			"	"	"	

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

Gasoline (C6-C10)	7.2	5.0	mg/L	1	5G15013	07/15/2015	07/17/2015	
Diesel (C10-C28)	15.7	5.0	"	"	"	"	"	

Surrogate: o-Terphenyl	105 %	54-117			"	"	"	
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pH in Water by EPA 9040C

pH	7.41		pH Units	1	5G15014	07/15/2015	07/15/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	12700	1.00	uS/cm	"	5G15015	"	07/15/2015	
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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: 015-1824
 Project: Sauvage

SB12-GW
7/15/2015 3:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

GEL Laboratories, LLC
X507204-04 (Water)

Anions by EPA 300.0

Chloride	1920	100	mg/L	500	1493527		07/17/2015	
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BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5G15011	07/15/2015	07/15/2015	
Toluene	ND	1.0	"	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	105 %	87.3-113			"	"	"	"
Surrogate: Toluene-d8	99.9 %	90.9-108			"	"	"	"
Surrogate: 4-Bromofluorobenzene	97.9 %	88.6-111			"	"	"	"

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

Gasoline (C6-C10)	ND	5.0	mg/L	1	5G15013	07/15/2015	07/17/2015	
Diesel (C10-C28)	ND	5.0	"	"	"	"	"	"

Surrogate: o-Terphenyl	106 %	54-117			"	"	"	"
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pH in Water by EPA 9040C

pH	7.25		pH Units	1	5G15014	07/15/2015	07/15/2015	
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Specific Conductance by Modified 9050A

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: 015-1824
Project: Sauvage

SB12-GW

7/15/2015 3:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507204-04 (Water)

Specific Conductance by Modified 9050A

Specific Conductance (EC)	16700	1.00	uS/cm	1	5G15015	07/15/2015	07/15/2015
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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: 015-1824
Project: Sauvage

Trip Blank
7/15/2015 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507204-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5G15011	07/15/2015	07/15/2015	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	87.3-113			"	"	"	
Surrogate: Toluene-d8	99.3 %	90.9-108			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.5 %	88.6-111			"	"	"	

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-1824
 Project: Sauvage

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 5G15011 - EPA 5030B (Water)

Blank (5G15011-BLK1)

Prepared: 07/15/2015 Analyzed: 07/15/2015

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5	102		87.3-113			
Surrogate: Toluene-d8	62		"	62.5	99.3		90.9-108			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	97.8		88.6-111			

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-1824
 Project: Sauvage

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 5G15011 - EPA 5030B (Water)

LCS (5G15011-BS1)

Prepared: 07/15/2015 Analyzed: 07/15/2015

Benzene	44.8	1.0	ug/L	50.0		89.7	75-126			
Toluene	43.6	1.0	"	50.0		87.2	78.7-126			
Ethylbenzene	45.1	1.0	"	50.0		90.2	80-130			
m,p-Xylene	94.1	2.0	"	100		94.1	77.2-133			
o-Xylene	50.0	1.0	"	50.0		99.9	77.9-126			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		102	87.3-113			
Surrogate: Toluene-d8	63		"	62.5		102	90.9-108			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	88.6-111			

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-1824
 Project: Sauvage

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 5G15011 - EPA 5030B (Water)

Matrix Spike (5G15011-MS1)	Source: X507186-01			Prepared: 07/15/2015 Analyzed: 07/15/2015						
Benzene	47.6	1.0	ug/L	50.0	1.4	92.5	74-130			
Toluene	44.5	1.0	"	50.0	ND	89.0	73-131			
Ethylbenzene	43.7	1.0	"	50.0	ND	87.5	76-132			
m,p-Xylene	91.2	2.0	"	100	ND	91.2	69-139			
o-Xylene	49.5	1.0	"	50.0	ND	99.0	74-131			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		105	87.3-113			
Surrogate: Toluene-d8	65		"	62.5		103	90.9-108			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.8	88.6-111			

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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-1824
 Project: Sauvage

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 5G15011 - EPA 5030B (Water)

Matrix Spike Dup (5G15011-MSD1)	Source: X507186-01			Prepared: 07/15/2015 Analyzed: 07/15/2015						
Benzene	46.4	1.0	ug/L	50.0	1.4	90.1	74-130	2.57	20	
Toluene	44.2	1.0	"	50.0	ND	88.4	73-131	0.609	20	
Ethylbenzene	46.7	1.0	"	50.0	ND	93.3	76-132	6.48	20	
m,p-Xylene	94.2	2.0	"	100	ND	94.2	69-139	3.18	20	
o-Xylene	50.7	1.0	"	50.0	ND	101	74-131	2.36	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	87.3-113			
Surrogate: Toluene-d8	62		"	62.5		99.4	90.9-108			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.8	88.6-111			

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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-1824
 Project: Sauvage

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 5G15013 - EPA 3511 Mod.

Blank (5G15013-BLK1)

Prepared: 07/15/2015 Analyzed: 07/17/2015

Gasoline (C6-C10)	ND	5.0	mg/L							
Diesel (C10-C28)	ND	5.0	"							
Surrogate: o-Terphenyl	5.2		"	5.00		105	54-117			

LCS (5G15013-BS1)

Prepared: 07/15/2015 Analyzed: 07/17/2015

Gasoline (C6-C10)	72.4	5.0	mg/L	100		72.4	69-125			
Diesel (C10-C28)	86.5	5.0	"	100		86.5	61-120			
Surrogate: o-Terphenyl	4.6		"	5.00		92.0	54-117			

Matrix Spike (5G15013-MS1)

Source: X507204-01

Prepared: 07/15/2015 Analyzed: 07/17/2015

Gasoline (C6-C10)	122	5.0	mg/L	100	15.7	106	70-127			
Diesel (C10-C28)	124	5.0	"	100	20.9	103	54-126			
Surrogate: o-Terphenyl	5.2		"	5.00		105	54-117			

Matrix Spike Dup (5G15013-MSD1)

Source: X507204-01

Prepared: 07/15/2015 Analyzed: 07/17/2015

Gasoline (C6-C10)	133	5.0	mg/L	100	15.7	117	70-127	8.58	20	
Diesel (C10-C28)	126	5.0	"	100	20.9	105	54-126	2.12	20	
Surrogate: o-Terphenyl	5.3		"	5.00		105	54-117			

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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-1824
 Project: Sauvage

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G15014 - NO PREP										
Duplicate (5G15014-DUP1)		Source: X507204-03			Prepared: 07/15/2015 Analyzed: 07/15/2015					
pH	7.39		pH Units		7.41			0.270	200	
Batch 5G15015 - NO PREP										
Blank (5G15015-BLK1)		Prepared: 07/15/2015 Analyzed: 07/15/2015								
Specific Conductance (EC)	3.30	1.00	uS/cm							
Duplicate (5G15015-DUP1)		Source: X507204-03			Prepared: 07/15/2015 Analyzed: 07/15/2015					
Specific Conductance (EC)	12700	1.00	uS/cm		12700			0.00	10	

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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-1824
 Project: Sauvage

Anions by EPA 300.0 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1493527 -										
BLANK (1203356555-BLK)					Prepared: Analyzed: 07/17/2015					
Chloride	ND	0.200	mg/L				-			U
LCS (1203356556-BKS)					Prepared: Analyzed: 07/17/2015					
Chloride	4.87	0.200	mg/L	5.00		97.5	90-110			
DUP (1203356557 D)					Source: X507204-04 Prepared: Analyzed: 07/17/2015					
Chloride	1920	100	mg/L		1920		0-20	0.320	20	
PS (1203356558 S)					Source: X507204-04 Prepared: Analyzed: 07/17/2015					
Chloride	4640	100	mg/L	5.00		109	90-110			

Origins Laboratory, Inc.



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 Golden CO 80403

Nikki Graber
 Project Number: 015-1824
 Project: Sauvage

Oil & Grease by EPA 1664A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1493488 -										
BLANK (1203356444-BLK)					Prepared: Analyzed: 07/17/2015					
n-Hexane Extractable Material	ND	5.00	mg/L				-			U
LCS (1203356445-BKS)					Prepared: Analyzed: 07/17/2015					
n-Hexane Extractable Material	35.6	5.00	mg/L	40.0		89	77-107			
LCSD (1203356447-BKSD)					Prepared: Analyzed: 07/17/2015					
n-Hexane Extractable Material	35.1	5.00	mg/L	40.0		87.8	77-107	1.41	24	

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: 015-1824
Project: Sauvage

Notes and Definitions

U Result not detected above the detection limit

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

July 20, 2015

Olsson Associates

Nikki Graber

4690 Table Mountain Drive

Golden CO 80403

Project Name - Sauvage

Project Number - 015-1824

Attached are your analytical results for Sauvage received by Origins Laboratory, Inc. July 17, 2015. This project is associated with Origins project number X507262-01.

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: 015-1824
Project: Sauvage

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB10R-11.5'	X507262-01	Soil	July 17, 2015 12:22	07/17/2015 13:41

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: 015-1824
 Project: Sauvage

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X507262 Client: Olsson
 Client Project ID: Sauvage
 Checklist Completed by: Jen Pellegrini Shipped Via: HPD
 Date/time completed: 7/17/15 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 155 °C / _____ °C / _____ °C (Describe) _____ °C
 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"/>			
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 ^{(1)?}	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ^{(1)?}	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ^{(1)?}		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ^{(1)?}	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ^{(1)?}	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ^{(1)?}	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ^{(1)?}	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<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: [Signature] (Project Manager) Date/Time Reviewed: 7/17/15

Origins Laboratory, Inc.

Jen Pellegrini

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: 015-1824
Project: Sauvage

SB10R-11.5'
7/17/2015 12:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507262-01 (Soil)

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

Gasoline (C6-C10)	ND	50.0	mg/kg	1	5G17005	07/17/2015	07/17/2015	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	
Surrogate: o-Terphenyl	100 %	59-131			"	"	"	

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: 015-1824
 Project: Sauvage

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
Batch 5G17005 - EPA 3580										
Blank (5G17005-BLK1)										
					Prepared: 07/17/2015 Analyzed: 07/17/2015					
Gasoline (C6-C10)	ND	50.0	mg/kg							
Diesel (C10-C28)	ND	50.0	"							
Surrogate: o-Terphenyl	51		"	50.0		103	59-131			
LCS (5G17005-BS1)										
					Prepared: 07/17/2015 Analyzed: 07/17/2015					
Gasoline (C6-C10)	813	50.0	mg/kg	1000		81.3	59-133			
Diesel (C10-C28)	938	50.0	"	1000		93.8	64-121			
Surrogate: o-Terphenyl	50		"	50.0		99.3	59-131			
Matrix Spike (5G17005-MS1)										
		Source: X507218-04			Prepared: 07/17/2015 Analyzed: 07/17/2015					
Gasoline (C6-C10)	863	50.0	mg/kg	1000	ND	86.3	57-139			
Diesel (C10-C28)	988	50.0	"	1000	31.2	95.7	53-125			
Surrogate: o-Terphenyl	50		"	50.0		101	59-131			
Matrix Spike Dup (5G17005-MSD1)										
		Source: X507218-04			Prepared: 07/17/2015 Analyzed: 07/17/2015					
Gasoline (C6-C10)	875	50.0	mg/kg	1000	ND	87.5	57-139	1.39	20	
Diesel (C10-C28)	999	50.0	"	1000	31.2	96.8	53-125	1.11	20	
Surrogate: o-Terphenyl	50		"	50.0		100	59-131			

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: 015-1824
Project: Sauvage

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.



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