



Kerr-McGee Oil & Gas Onshore LP
1099 18th Street, Suite 1800
Denver, Colorado 80202
720-929-6000 Fax 720-929-7000

June 23, 2016

Mr. Erik Mickelson
Senior HSE Representative
Kerr-McGee Oil & Gas Onshore LP
1099 18th Street, Suite 1800
Denver, Colorado 80202

**Re: Sump Replacement Summary Letter Report
Warner W-62N66W/13NWSE
API: 05-123-24674
Facility ID: 306451
NWSE Sec.13 2N66W
COGCC Remediation #8961**

Dear Mr. Mickelson:

Apex Companies, LLC (Apex) is providing Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) with this Sump Replacement Summary Letter Report (Report) to document sampling activities and the results of environmental testing at the above-referenced site. This Report is being submitted under the Form 27 Management Plan for Closure of Produced Water Vessels, which has been assigned Remediation #8961 by the COGCC. Apex provided the environmental services at the site that included collection of confirmation soil samples from the excavation and documentation of field activities, as described below.

Site Assessment Activities

The field activities described herein were performed on April 6, 2016, with the purpose of assessing potential hydrocarbon impacts at the site related to the replacement of the produced water sump. Soil sampling activities, laboratory analytical results, and conclusions are presented below. The general site layout and sample locations are provided on Figure 1.

The final extent of the excavation measured approximately 15 feet by 12 feet with an approximate depth of 5 feet below ground surface (bgs). No impacted soils were encountered in the excavation during closure activities. A liner was not present below the tanks, and groundwater was not encountered in the excavation.

Confirmation soil samples were collected from the base and sidewalls of the excavation area at approximately 5 feet and 4 feet bgs, respectively. Soil samples were field screened for volatile organic compound (VOC) concentrations using a photoionization detector (PID). The confirmation soil sample collected from the base (Base1@5') of the excavation area was submitted to Origins Laboratory in

Denver, Colorado, for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), total petroleum hydrocarbons (TPH) – gasoline range organics (GRO) by United States Environmental Protection Agency (USEPA) Method 8260, and TPH – diesel range and residual range organics (DRO and RRO) by USEPA Method 8015, electrical conductivity (EC), and pH. Soil analytical data is summarized in Table 1 and the laboratory analytical report is provided in Attachment A.

Results

Soil analytical results from soil sample Base1 @5' indicated that BTEX and TPH concentrations were below the applicable COGCC Table 910-1 standards. The remaining four soil samples collected from the sidewalls of the excavation area were not submitted for laboratory analysis as analytical data confirmed the absence of petroleum hydrocarbon impacts above regulatory standards. For soil sample Base1 @5', the laboratory analytical result for pH exceeded the COGCC threshold, but the sample was collected below the designated root zone, at 5 feet bgs.

Conclusions

Analytical results described herein confirm BTEX and TPH impacts are not present at concentrations above applicable regulatory standards in the former sump location. Consequently, no further site assessment or remedial activity is necessary. Following site assessment activities, the produced water sump was replaced onsite in a new location.

Please contact me at (303) 242-8671 if you have any questions regarding this report or require additional information.

Sincerely,

Apex Companies, LLC

A handwritten signature in blue ink, reading "Jacob H. Hildebrand".

Jacob Hildebrand, PMP
Project Manager

Attachments:

Table 1 – Soil Sample Results Summary Table
Figure 1 – Site Map
Attachment A – Laboratory Analytical Reports

Table 1 - Soil Sample Results Summary Table



Kerr-McGee Oil and Gas Onshore LP

Location Name: Warner W-62N66W / 13NWSE

Location ID: 306451

API #: 05-123-24674

County: Weld

County: Weld

COGCC Allowable Concentration →			Organics in Soil						Inorganics in Soil		
			500			0.17	85	100	175	(<4 or $2\times$ background)	(6-9)
Sample ID	Sample Date	Depth (feet bgs)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes - total (mg/kg)	Electrical Conductivity (mmhos/cm)	pH
Base 1 @ 5'	04/06/16	5'	<5.00	<50	<200	<0.050	<0.050	<0.050	<0.050	0.3040	9.18 *

Notes:

TPH Total petroleum hydrocarbons
 GRO Gasoline range hydrocarbons (C6 - C10)
 DRO Diesel range organics (C10 - C28)
 RRO Residual range organics (C28 - C36)





Bold cell indicates result exceeded COGCC Table 910-1 allowable concentration for the contaminant / inorganic of concern

bgs below ground surface
 mg/kg milligrams per kilogram
 mmhos/cm millimhos per centimeter
 NA Not analyzed / not available
 COGCC Colorado Oil and Gas Conservation Commission
 * Sample collected from below the designated root zone



Figure 1
Warner W-62N66W/13NWSE
Site Layout

Legend

-  Soil Sample
-  Excavation Extent
-  Former Berm
-  Byways

Sample Location

B: benzene
TPH: total petroleum hydrocarbons

Bold values exceed COGCC Table
910-1 allowable concentrations

Site Characteristics

Legal Location: SWSE, Sec 13, T2N R66W
County: Weld
Land Use: Non-cropland
Topography: 1-3% Slopes
Run-Off Risk: NA
Soil Type: Olney fine sandy loam

REVISED	BY	COMMENT
6/23/2016	BJB	Figure 1



Apex Companies, LLC
beau.bergstrom@apexcos.com
M:\Projects\Anadarko\DJ_Basin\Remediation\Warner_W_62N66W\Projects
Warner_W_62N66W_13NWSE_Fig1_Dlg_20160411.mxd

Attachment A

Laboratory Analytical Reports



April 07, 2016

Apex Companies, LLC

Jake Hildebrand

3240 W. 71st Avenue, Suite 1

Westminster CO 80030

Project Name - KMG - Warner 62N66W/13NWSE Project Number - 89043882

Attached are your analytical results for KMG - Warner 62N66W/13NWSE received by Origins Laboratory, Inc. April 06, 2016. This project is associated with Origins project number X604070-01.

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

Apex Companies, LLC

3240 W. 71st Avenue, Suite 1

Westminster CO 80030

Jake Hildebrand

Project Number: 89043882

Project: KMG - Warner 62N66W/13NWSE

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Base 1 @ 5'	X604070-01	Soil	April 6, 2016 11:30	04/06/2016 16:30

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.

Jake Hildebrand
Project Number: 89043882
Project: KMG - Warner 62N66W/13NWSE

ORIGINS

LABORATORY, INC

X604070

www.originslaboratory.com

page | of |

Client: Apex Companies

Project Manager: Jacob Hildebrand

Address: 1761 Cole Blvd

Project Name: Warner 62N66W/13NSE

Lakewood, CO 80401

Project Number: 89043882 (Erik Mickelson)

Telephone Number: 970.903.1260

Samples Collected By: John Hickey

Email Address: Jake.Hildebrand@apexcos.com

* Bill to Anadarko

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	GC/MS	Pro/Or	EC		PH
Base 1 @ 5'	4.6.16	1130	2	X				X				X	X	X	Hold SAR	1
North 1 @ 4'		1132	1												Hold All	2
South 1 @ 4'		1134														3
East 1 @ 4'		1136														4
West 1 @ 4'		1138														5
Background		1141	4													6
																7
																8
																9
																10
Relinquished By: [Signature]	Date: 4.6.16		Time: 1030	Received By: [Signature]				Date: 7/16/16	Time: 1630				Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>			
Relinquished By: [Signature]	Date: [Blank]		Time: [Blank]	Received By: [Signature]				Date: [Blank]	Time: [Blank]							

Temp Received: 12.0

Date Results Needed 4.1.16

7 AM

Origins Laboratory, Inc.

Jeff Pellipini

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Apex Companies, LLC

3240 W. 71st Avenue, Suite 1

Westminster CO 80030

Jake Hildebrand

Project Number: 89043882

Project: KMG - Warner 62N66W/13NWSE

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XL04070

Client: Apex

Client Project ID: Warner 62N66W/13NWSE

Checklist Completed by: Jeff Smith

Shipped Via: 11/D

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

Date/time completed: 4/6/12

Airbill #: NA

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

Cooler Number/Temperature: L / 12.0 °C / _____ °C / _____ °C (Describe)

Thermometer ID: T203

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"/>		<u>Sampled Same Day</u>
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"/>			<u>PI+</u>
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 HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +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 (Project Manager) Jeff Smith

Date/Time Reviewed 4/6/12

Origins Laboratory, Inc.

Jen Pellegrini

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Apex Companies, LLC
3240 W. 71st Avenue, Suite 1
Westminster CO 80030

Jake Hildebrand
Project Number: 89043882
Project: KMG - Warner 62N66W/13NWSE

Base 1 @ 5'
4/6/2016 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604070-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	B6D0603	04/06/2016	04/06/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 72.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6D0601	04/06/2016	04/06/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "
Surrogate: Toluene-d8 98.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 98.4 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.18		pH Units	1	B6D0607	04/06/2016	04/06/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.304		mmhos/cm	"	B6D0608	04/06/2016	04/06/2016	
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Apex Companies, LLC
3240 W. 71st Avenue, Suite 1
Westminster CO 80030

Jake Hildebrand
Project Number: 89043882
Project: KMG - Warner 62N66W/13NWSE

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
Batch B6D0601 - EPA 5030 (soil)										
Blank (B6D0601-BLK1)					Prepared: 04/06/2016 Analyzed: 04/06/2016					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	78.7		ug/kg	62.5		126	70-130			
Surrogate: Toluene-d8	59.8		"	62.5		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	63.4		"	62.5		101	70-130			

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Apex Companies, LLC
3240 W. 71st Avenue, Suite 1
Westminster CO 80030

Jake Hildebrand
Project Number: 89043882
Project: KMG - Warner 62N66W/13NWSE

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
Batch B6D0601 - EPA 5030 (soil)										
LCS (B6D0601-BS1)					Prepared: 04/06/2016 Analyzed: 04/06/2016					
Benzene	0.086	0.002	mg/kg	0.100		86.5	77.1-124			
Toluene	0.086	0.002	"	0.100		86.0	74.5-128			
Ethylbenzene	0.088	0.002	"	0.100		87.6	66.4-127			
m,p-Xylene	0.173	0.004	"	0.200		86.6	76.6-124			
o-Xylene	0.087	0.002	"	0.100		87.0	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	64.3		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	61.9		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	62.7		"	62.5		100	70-130			

Origins Laboratory, Inc.



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Apex Companies, LLC
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Westminster CO 80030

Jake Hildebrand
Project Number: 89043882
Project: KMG - Warner 62N66W/13NWSE

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 B6D0601 - EPA 5030 (soil)

Matrix Spike (B6D0601-MS1)		Source: X604031-01			Prepared: 04/06/2016 Analyzed: 04/06/2016					
Benzene	0.086	0.002	mg/kg	0.100	ND	85.6	71.8-126			
Toluene	0.087	0.002	"	0.100	0.002	85.2	65.1-130			
Ethylbenzene	0.088	0.002	"	0.100	ND	87.5	62.2-130			
m,p-Xylene	0.174	0.004	"	0.200	0.001	86.4	46.5-137			
o-Xylene	0.086	0.002	"	0.100	0.0004	85.1	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	64.0		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	61.6		"	62.5		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	63.6		"	62.5		102	70-130			

Origins Laboratory, Inc.



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Apex Companies, LLC
3240 W. 71st Avenue, Suite 1
Westminster CO 80030

Jake Hildebrand
Project Number: 89043882
Project: KMG - Warner 62N66W/13NWSE

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 B6D0601 - EPA 5030 (soil)

Matrix Spike Dup (B6D0601-MSD1)		Source: X604031-01			Prepared: 04/06/2016 Analyzed: 04/06/2016					
Benzene	0.094	0.002	mg/kg	0.100	ND	93.5	71.8-126	8.87	11.3	
Toluene	0.094	0.002	"	0.100	0.002	92.2	65.1-130	7.74	15.4	
Ethylbenzene	0.092	0.002	"	0.100	ND	91.6	62.2-130	4.56	19.6	
m,p-Xylene	0.183	0.004	"	0.200	0.001	90.8	46.5-137	4.98	19.2	
o-Xylene	0.091	0.002	"	0.100	0.0004	90.2	54.2-134	5.72	17.9	
Surrogate: 1,2-Dichloroethane-d4	64.0		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	61.7		"	62.5		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	62.5		"	62.5		100	70-130			

Origins Laboratory, Inc.



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Apex Companies, LLC
3240 W. 71st Avenue, Suite 1
Westminster CO 80030

Jake Hildebrand
Project Number: 89043882
Project: KMG - Warner 62N66W/13NWSE

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 B6D0603 - EPA 3580

Blank (B6D0603-BLK1)

Prepared: 04/06/2016 Analyzed: 04/06/2016

Diesel (C10-C28)	ND	50	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	42		"	50.0		84.0	59-131			

LCS (B6D0603-BS1)

Prepared: 04/06/2016 Analyzed: 04/06/2016

Diesel (C10-C28)	900	50	mg/kg	1000		90.2	64-121			
Residual Range Organics (C28-C40)	880	200	"	1000		88.1	58-124			
Surrogate: o-Terphenyl	47		"	50.0		93.6	59-131			

Matrix Spike (B6D0603-MS1)

Source: X604070-01

Prepared: 04/06/2016 Analyzed: 04/06/2016

Diesel (C10-C28)	920	50	mg/kg	1000	ND	92.2	53-125			
Residual Range Organics (C28-C40)	880	200	"	1000	ND	87.5	47-133			
Surrogate: o-Terphenyl	42		"	50.0		84.7	59-131			

Matrix Spike Dup (B6D0603-MSD1)

Source: X604070-01

Prepared: 04/06/2016 Analyzed: 04/06/2016

Diesel (C10-C28)	810	50	mg/kg	1000	ND	81.1	53-125	12.8	20	
Residual Range Organics (C28-C40)	790	200	"	1000	ND	79.1	47-133	10.1	20	
Surrogate: o-Terphenyl	43		"	50.0		85.3	59-131			

Origins Laboratory, Inc.



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Apex Companies, LLC
3240 W. 71st Avenue, Suite 1
Westminster CO 80030

Jake Hildebrand
Project Number: 89043882
Project: KMG - Warner 62N66W/13NWSE

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 B6D0607 - NO PREP										
Duplicate (B6D0607-DUP1)		Source: X604070-01			Prepared: 04/06/2016 Analyzed: 04/06/2016					
pH	9.24		pH Units		9.18			0.651	25	
Batch B6D0608 - NO PREP										
Blank (B6D0608-BLK1)		Prepared: 04/06/2016 Analyzed: 04/06/2016								
Specific Conductance (EC)	0.00300		mmhos/cm							
Duplicate (B6D0608-DUP1)		Source: X604070-01			Prepared: 04/06/2016 Analyzed: 04/06/2016					
Specific Conductance (EC)	0.308		mmhos/cm		0.304			1.31	25	

Origins Laboratory, Inc.



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Apex Companies, LLC
3240 W. 71st Avenue, Suite 1
Westminster CO 80030

Jake Hildebrand
Project Number: 89043882
Project: KMG - Warner 62N66W/13NWSE

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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