



February 25, 2015

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - KMG - Dutcher Roy Unit #1**

**Project Number - [none]**

**API: 05-123-07739**

Attached are your analytical results for KMG - Dutcher Roy Unit #1 received by Origins Laboratory, Inc. February 20, 2015. This project is associated with Origins project number X502255-01.

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

Tasman Geosciences

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Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Dutcher Roy Unit #1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DR-PW01	X502255-01	Water	February 20, 2015 10:30	02/20/2015 12:30
JS-PW01	X502255-02	Water	February 20, 2015 11:30	02/20/2015 12:30

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Bob Cornez  
Project Number: [none]  
Project: KMG - Dutcher Roy Unit #1

**ORIGINS**  
LABORATORY, INC

www.originslaboratory.com

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Client: Tamara Project Manager/Send Report to: Bob Cune

Address: \_\_\_\_\_ Email Address: 11011127@lasvegasgcu.com

Telephone Number: \_\_\_\_\_ Project Name/Number: Dutchey Res Unit #1, Jacob Schlegel

Samples Collected By: Kolk Environmental

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix	Analysis/Method	Sample Instructions
				Unpreserved	HNO <sub>3</sub>	Other	Groundwater	Soil			
DR-PW01	2/20/15	1030	1	X						TS	1
JS-PW01	2/20/15	1130	1	X						TS	2
											3
											4
											5
											6
											7
											8
											9
											10

Relinquished By: Bob Cune Date: 2/20/15 Time: 1230

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Turnaround Time: ☒ Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☐ 3.0

Signature: Bob Cune Date: 2/20/15 Time: 1230

Origins Laboratory, Inc.

Jeff Pellgrini

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Denver CO 80211

Bob Cornez  
Project Number: [none]  
Project: KMG - Dutcher Roy Unit #1

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: XS02255

Client: Tasman

Client Project ID: Dutcher Roy Unit #1

Checklist Completed by: Jeff Smith

Shipped Via: HTD

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

Date/time completed: 2/20/15

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 3.8 °C 1 /     °C 1 /     °C (Describe)

Thermometer ID: 7003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

02-20-15  
Date/Time Reviewed

Origins Laboratory, Inc.

*Jeff Pellegrini*

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6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Dutcher Roy Unit #1

DR-PW01

2/20/2015 10:30:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

**XENCO**

**X502255-01 (Water)**

## TDS by SM2540C

Total dissolved solids	5010	5	mg/L	1	962475	02/23/2015	02/23/2015
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Project Number: [none]

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JS-PW01

2/20/2015 11:30:00AM

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit						

XENCO

X502255-02 (Water)

## TDS by SM2540C

Total dissolved solids	6750	5	mg/L	1	962475	02/23/2015	02/23/2015
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## TDS by SM2540C - Quality Control XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 962475 - NONE</b>										
<b>LCS (962475-1-BKS)</b>		<b>Source: 962475-1-BKS</b>			Prepared: 02/23/2015 Analyzed: 02/23/2015					
Total dissolved solids	488	5	mg/L	500	<5.00	98	80-120		10	
<b>BLANK (962475-1-BLK)</b>		<b>Source: 962475-1-BLK</b>			Prepared: 02/23/2015 Analyzed: 02/23/2015					
Total dissolved solids	ND	5	mg/L	1000			-		10	
<b>LCSD (962475-1-BSD)</b>		<b>Source: 962475-1-BSD</b>			Prepared: 02/23/2015 Analyzed: 02/23/2015					
Total dissolved solids	486	5	mg/L	500	<5.00	97	80-120	0	10	

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### 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.

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Jen Pellegrini For Noelle Doyle Mathis, President