



April 11, 2022

Tasman Geosciences

Justin Covey

6855 West 119th Avenue

Broomfield CO 80020

Project Name - Bayswater - Drake PC MM TB

Project Number - -

Attached are your analytical results for Bayswater - Drake PC MM TB received by Origins Laboratory, Inc. March 31, 2022. This project is associated with Origins project number Y203832-01.

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.  
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CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-BG01@1'	Y203832-01	Soil	March 31, 2022 13:51	03/31/2022 17:05
TB-BG01@3'	Y203832-02	Soil	March 31, 2022 13:54	03/31/2022 17:05
TB-BG01@5'	Y203832-03	Soil	March 31, 2022 13:57	03/31/2022 17:05

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Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4203832

Client: Tasman

Client Project ID: Drake PC MM TB

Checklist Completed by: JAF

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

Date/time completed: 3/5/12

Airbill #: NA

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

Cooler Number/Temperature: L 153 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)

Thermometer ID: TOCH

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 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 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 type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input 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 type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input 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 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 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 HNO3, HCL, H2SO4) / ( pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input 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.

JAF  
 Reviewed by (Project Manager)

3/5/12  
 Date/Time Reviewed

Origins Laboratory, Inc.

*J. Bynon*

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**TB-BG01@1'**  
**3/31/2022 1:51:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203832-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.631	0.102	mg/L	1	B2D0612	CW	04/06/2022	04/07/2022
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**Metals by Saturated Paste by EPA 6010**

Calcium	10.5	0.499	meq/L	10	[CALC]	KAP	04/04/2022	04/05/2022
Magnesium	5.21	0.823	"	"	"	KAP	"	"
Sodium	2.33	0.435	"	"	"	KAP	"	"

**pH in Soil by 9045D**

pH	7.40		pH Units	1	B2D0411	ACC	04/04/2022	04/05/2022
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**SAR by 20B Saturated Paste**

SAR	0.831		SAR	1	B2D0403	KAP	04/04/2022	04/05/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.94	0.00500	mmhos/cm	1	B2D0410	ACC	04/04/2022	04/05/2022
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**TB-BG01@3'**  
**3/31/2022 1:54:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203832-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.163	0.102	mg/L	1	B2D0612	CW	04/06/2022	04/07/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.33	0.499	meq/L	10	[CALC]	KAP	04/04/2022	04/05/2022	
Magnesium	1.22	0.823	"	"	"	KAP	"	"	
Sodium	0.583	0.435	"	"	"	KAP	"	"	

**pH in Soil by 9045D**

pH	7.81		pH Units	1	B2D0411	ACC	04/04/2022	04/05/2022	
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**SAR by 20B Saturated Paste**

SAR	0.438		SAR	1	B2D0403	KAP	04/04/2022	04/05/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.416	0.00500	mmhos/cm	1	B2D0410	ACC	04/04/2022	04/05/2022	
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**TB-BG01@5'**  
**3/31/2022 1:57:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203832-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.964	0.100	mg/L	1	B2D0612	CW	04/06/2022	04/07/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.85	0.499	meq/L	10	[CALC]	KAP	04/04/2022	04/05/2022	
Magnesium	0.955	0.823	"	"	"	KAP	"	"	
Sodium	ND	0.435	"	"	"	KAP	"	"	

**pH in Soil by 9045D**

pH	8.09		pH Units	1	B2D0411	ACC	04/04/2022	04/05/2022	
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**SAR by 20B Saturated Paste**

SAR	0.327		SAR	1	B2D0403	KAP	04/04/2022	04/05/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.321	0.00500	mmhos/cm	1	B2D0410	ACC	04/04/2022	04/05/2022	
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**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2D0410 - NO PREP</b>										
<b>Blank (B2D0410-BLK1)</b>					Prepared: 04/04/2022 Analyzed: 04/05/2022					
Specific Conductance (EC)	0.000800	0.00500	mmhos/cm							
<b>Duplicate (B2D0410-DUP1)</b>		<b>Source: Y203828-01</b>			Prepared: 04/04/2022 Analyzed: 04/05/2022					
Specific Conductance (EC)	4.20	0.00500	mmhos/cm		3.98			5.60	25	
<b>Batch B2D0411 - NO PREP</b>										
<b>Duplicate (B2D0411-DUP1)</b>		<b>Source: Y203828-01</b>			Prepared: 04/04/2022 Analyzed: 04/05/2022					
pH	6.85		pH Units		6.69			2.36	25	

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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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