

Attention: Patrick Li

City of Vancouver
West Broadway
320-507 West Broadway Avenue
Vancouver, BC
Canada V5Z 0B4

Your P.O. #: 4700002203
Your Project #: 10356277
Site Location: COOLING TOWER REPLACEMENT 2120 CAMBIE STREET
Your C.O.C. #: 08447274

Report Date: 2017/11/28
Report #: R2483443
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B7A5317

Received: 2017/11/27, 14:40

Sample Matrix: PAINT
Samples Received: 1

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Elements by ICP-AES (acid extr. solid)	1	2017/11/28	2017/11/28	BBY7SOP-00018	EPA 6010c R3 m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported: unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

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Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Morgan Melnychuk, Burnaby Project Manager
Email: MMelnychuk@maxxam.ca
Phone# (604)638-8034 Ext:8034

=====

This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Report Date: 2017/11/28

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Your P.O. #: 4700002203
Sampler Initials: RB

LEAD IN PAINT CHIPS (PAINT)

Maxxam ID		SO3591		
Sampling Date		2017/11/27		
COC Number		08447274		
	UNITS	CT-L01 GREY/RED PAINT ON METAL COOLING TOWER UNIT AND SUPPORTIING STRUCTURE (ROOF TOP)	RDL	QC Batch
Total Metals by ICP				
Total Lead (Pb)	mg/kg	139 (1)	9.0	8844556
RDL = Reportable Detection Limit (1) Detection limits raised due to insufficient sample volume.				

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City of Vancouver
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STREET
Your P.O. #: 470002203
Sampler Initials: RB

GENERAL COMMENTS

Results relate only to the items tested.

Maxxam Job #: B7A5317
Report Date: 2017/11/28

QUALITY ASSURANCE REPORT

City of Vancouver
Client Project #: 10356277
COOLING TOWER REPLACEMENT 2120 CAMBIE
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Sampler Initials: RB

QC Batch	Parameter	Date	Method Blank		RPD		QC Standard	
			Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8844556	Total Lead (Pb)	2017/11/28	<3.0	mg/kg	1.9	35	94	80 - 120

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

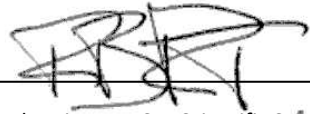
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

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STREET
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Sampler Initials: RB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Rob Reinert, B.Sc., Scientific Spécialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Burnaby: 4606 Canada Way, E

186, Toll Free: 1-800-885-8888

CHAIN OF CUSTODY RECORD

Maxxam



B7A5317_COC



08447274

Page: 1 of 1

Invoice To: Require Report?

Yes No

Company Name: City of Vancouver
Contact Name: Accounts Payable
Address: P.O. BOX 7757
Vancouver BC: V6B 0L5
Phone / Fax#: Ph: Fax:
E-mail: APInvoice@vancouver.ca

Company Name: City of Vancouver
Contact Name: Pat Li
Address: 320-507 West Broadway
Vancouver BC: V5Z0B4
Phone / Fax#: Ph: 604.873.7988 Fax:
E-mail: pat.li@vancouver.ca

PO #: PO# 4700002203
Quotation #:
Project #: 10356277
Proj. Name: Cooling Tower Replacement
Location: 2120 Cambie Street
Sampled by: Ramon Blandino

REGULATORY REQUIREMENTS:

- CSR
CCME
BC Water Quality
Other Paint
DRINKING WATER

SERVICE REQUESTED:

- Regular Turn Around Time (TAT)
(5 days for most tests)
RUSH (Please contact the lab)
1 Day 2 Day 3 Day
Date Required:

SPECIAL INSTRUCTIONS:

Return Cooler Ship Sample Bottles (please specify)

ANALYSIS REQUESTED

Table with columns for Sample Identification, Lab Identification, Sample Type, Date/Time(24hr) Sampled, and various analysis checkboxes (Field Filtered, Field Acidified, Total Metals, Total Lead Analysis, Number of Containers).

Table for Relinquished By and Received by information, including date, time, and temperature on receipt.