



TESTMARK Laboratories Ltd.

Committed to Quality and Service

CERTIFICATE OF ANALYSIS

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Work Order Number: 346731
PO #:
Regulation: O.Reg. 243/07
Project #:
DWS #: 500045631
Sampled By: Steve McCulloch

Date Order Received: 6/13/2018
Arrival Temperature: 12 °C

Analysis Started: 6/18/2018
Analysis Completed: 6/20/2018

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
F (Standing)	1351104	Water	Plumbing		6/13/2018	7:00 AM
F (Flushed)	1351105	Water	Plumbing		6/13/2018	7:35 AM
G Standing	1351106	Water	Plumbing		6/13/2018	7:02 AM
G Flushed	1351107	Water	Plumbing		6/13/2018	7:37 AM
100A Standing	1351108	Water	Plumbing	SAMPLE CONTAINED RESULT EXCEEDENCES.	6/13/2018	7:04 AM
100A Flushed	1351109	Water	Plumbing		6/13/2018	7:39 AM
103A Standing	1351110	Water	Plumbing		6/13/2018	7:06 AM
103A Flushed	1351111	Water	Plumbing		6/13/2018	7:41 AM
3 Standing	1351112	Water	Plumbing		6/13/2018	7:08 AM
3 Flushed	1351113	Water	Plumbing		6/13/2018	7:43 AM
122A Standing	1351114	Water	Plumbing		6/13/2018	7:10 AM
122A Flushed	1351115	Water	Plumbing		6/13/2018	7:45 AM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
ICPMS Reg. Water (R13.1)	Garson	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A



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REPORT COMMENTS

ESTIMATED STANDING TIME: 8 hrs
Lead exceedance reported on sample 1351108. 06/20/18 DC

This report has been approved by:

Khaled Omari, Ph.D.

Laboratory Director



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WORK ORDER RESULTS

Sample Description	F (Standing)		F (Flushed)		G Standing		G Flushed		Units	Criteria: O.Reg. 243/07
Lab ID	1351104		1351105		1351106		1351107			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL		
Lead	<0.1	0.1	<0.1	0.1	0.15	0.1	0.23	0.1	ug/L	10

Sample Description	100A Standing		100A Flushed		103A Standing		103A Flushed		Units	Criteria: O.Reg. 243/07
Lab ID	1351108		1351109		1351110		1351111			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL		
Lead	13.9	0.1	2.32	0.1	0.64	0.1	0.43	0.1	ug/L	10

Sample Description	3 Standing		3 Flushed		122A Standing		122A Flushed		Units	Criteria: O.Reg. 243/07
Lab ID	1351112		1351113		1351114		1351115			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL		
Lead	0.16	0.1	<0.1	0.1	0.29	0.1	0.13	0.1	ug/L	10

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

MDL: Method detection limit or minimum reporting limit.

Quality Control: All associated Quality Control data is available on request.

LCL: Lower Control Limit.

UCL: Upper Control Limit.

QAQCID: This is a unique reference to the quality control data set used to generate the reported value. Contact our lab for this information, as it is traceable through our LIMS.



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QUALITY CONTROL DATA

THIS SECTION REPORTS QC RESULTS ASSOCIATED WITH THE TEST BATCH; THESE ARE NOT YOUR SAMPLE RESULTS.
QAQC details include only values where sufficient sample data allowed measurement.

Metals							
Reference Sample: CRM-12 (EP-L-3) (12)							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	N/A	ug/L	3.65	3.75	4.35	20180620.R13.1F	
Lead	N/A	% Rec	80	90.8	120	20180619.R13-6o1	
Method Blank: LRB-6 (Blank- µg/L) (6)							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	1	ug/L	0	<1	1	20180620.R13.1F	
Lead	1	ug/L	0	<1	1	20180619.R13-6o1	
Sample Spike: LFMS-10 (N 100 µg/L) (10)							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	N/A	% Rec	70	79.7	130	20180619.R13-6o1	
Lead	N/A	% Rec	70	87.3	130	20180620.R13.1F	
Positive Control: LFB-7 (N 100 µg/L) (7)							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	N/A	%	80	86.3	120	20180619.R13-6o1	
Lead	N/A	%	80	87	120	20180620.R13.1F	
%RPD: % RPD (4)							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	N/A	%	0	0.2	20	20180619.R13-6o1	



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THIS INDEX SHOWS HOW YOUR SAMPLES ARE ASSOCIATED TO THE CONTROLS INCLUDED IN THE IDENTIFIED BATCHES.

Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
100A Flushed	1351109	ICPMS Reg. Water (R13.1)	20180620.R13.1F	20180619.A52O
100A Standing	1351108	ICPMS Reg. Water (R13.1)	20180620.R13.1F	20180619.A52O
103A Flushed	1351111	ICPMS Reg. Water (R13.1)	20180620.R13.1F	20180619.A52O
103A Standing	1351110	ICPMS Reg. Water (R13.1)	20180620.R13.1F	20180619.A52O
122A Flushed	1351115	ICPMS Reg. Water (R13.1)	20180620.R13.1F	20180619.A52O
122A Standing	1351114	ICPMS Reg. Water (R13.1)	20180620.R13.1F	20180619.A52O
3 Flushed	1351113	ICPMS Reg. Water (R13.1)	20180620.R13.1F	20180619.A52O
3 Standing	1351112	ICPMS Reg. Water (R13.1)	20180620.R13.1F	20180619.A52O
F (Flushed)	1351105	ICPMS Reg. Water (R13.1)	20180619.R13-6o1	20180618.A52S
F (Standing)	1351104	ICPMS Reg. Water (R13.1)	20180619.R13-6o1	20180618.A52S
G Flushed	1351107	ICPMS Reg. Water (R13.1)	20180619.R13-6o1	20180618.A52S
G Standing	1351106	ICPMS Reg. Water (R13.1)	20180619.R13-6o1	20180618.A52S