



TESTMARK Laboratories Ltd.

Committed to Quality and Service

CERTIFICATE OF ANALYSIS

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Work Order Number: 375517
PO #:
Regulation: O.Reg. 243/07
Project #:
DWS #: 500053418
Sampled By:

Date Order Received: 6/18/2019
Arrival Temperature: 21 °C

Analysis Started: 6/23/2019
Analysis Completed: 6/24/2019

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
T 186 DC (STANDING)	1449700	Water	Plumbing		6/18/2019	5:00 AM
T 186 DC (FLUSHED)	1449701	Water	Plumbing		6/18/2019	5:35 AM
F 179 (A) S	1449702	Water	Plumbing		6/18/2019	5:10 AM
F 179 (A) F	1449703	Water	Plumbing		6/18/2019	5:45 AM
F 163 (A) S	1449704	Water	Plumbing		6/18/2019	5:20 AM
F 163 (A) F	1449705	Water	Plumbing		6/18/2019	5:55 AM
F 212 L S	1449706	Water	Plumbing		6/18/2019	5:30 AM
F 212 L F	1449707	Water	Plumbing		6/18/2019	6:05 AM

METHODS AND INSTRUMENTATION

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

Method	Lab	Description	Reference
ICPMS Reg. Water (A13)	Garson	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A



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This report has been approved by:

Mark Charbonneau, Ph.D.
Laboratory Director



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WORK ORDER RESULTS

Sample Description	T 186 DC (STANDING)		T 186 DC (FLUSHED)		F 179 (A) S		F 179 (A) F			
Lab ID	1449700		1449701		1449702		1449703			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	<0.1	0.1	<0.1	0.1	1.6	0.1	0.6	0.1	ug/L	10
Sample Description	F 163 (A) S		F 163 (A) F		F 212 L S		F 212 L F			
Lab ID	1449704		1449705		1449706		1449707			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	1.8	0.1	0.5 [0.5]	0.1	<0.1	0.1	<0.1	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.

[]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

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.

Exceedences: HIGHLIGHTED CELLS INDICATE THAT THE RESULT EXCEEDS A REGULATORY LIMIT. CALCULATED UNCERTAINTY ESTIMATIONS ARE NOT APPLIED FOR DETERMINING SAMPLE EXCEEDANCES.

Benzo(b)fluoranthene: Results for benzo(b)fluoranthene may include contributions from benzo(j)fluoranthene.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result.



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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

Method Blank: LRB-6 (Blank- µg/L) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	1	ug/L	0	<1	1	20190624.A13.1J
Lead	1	ug/L	0	<1	1	20190624.A13.1L

Positive Control: LFB-7 (N 100 µg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	%	80	85.9	120	20190624.A13.1L
Lead	N/A	%	80	87.3	120	20190624.A13.1J

Reference Sample: CRM-12 (EP-L-3) (12)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	1	ug/L	3.65	3.65	4.35	20190624.A13.1J
Lead	1	ug/L	3.65	3.65	4.35	20190624.A13.1L

Sample Spike: LFMS-9 (N 100 µg/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	% Rec	70	85.7	130	20190624.A13.1J
Lead	N/A	% Rec	70	88.2	130	20190624.A13.1L



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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
F 163 (A) F	1449705	ICPMS Reg. Water (A13)	20190624.A13.1L	20190623.A52C
F 163 (A) F	1449705r	ICPMS Reg. Water (A13)	20190624.A13.1L	20190623.A52C
F 163 (A) S	1449704	ICPMS Reg. Water (A13)	20190624.A13.1L	20190623.A52C
F 179 (A) F	1449703	ICPMS Reg. Water (A13)	20190624.A13.1L	20190623.A52C
F 179 (A) S	1449702	ICPMS Reg. Water (A13)	20190624.A13.1L	20190623.A52C
F 212 L F	1449707	ICPMS Reg. Water (A13)	20190624.A13.1J	20190623.A52D
F 212 L S	1449706	ICPMS Reg. Water (A13)	20190624.A13.1J	20190623.A52D
T 186 DC (FLUSHED)	1449701	ICPMS Reg. Water (A13)	20190624.A13.1L	20190623.A52C
T 186 DC (STANDING)	1449700	ICPMS Reg. Water (A13)	20190624.A13.1L	20190623.A52C