



**CLIENT NAME: DEEP BAY IMPROVEMENT DISTRICT
5031 MOUNTAIN VIEW ROAD
BOWSER, BC V0R1G0
(250) 757-9312**

ATTENTION TO: Leslie Carter

PROJECT: Year 2

AGAT WORK ORDER: 20V680684

WATER ANALYSIS REVIEWED BY: Clarissa Muljono, Report Writer

DATE REPORTED: Nov 27, 2020

PAGES (INCLUDING COVER): 8

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (778) 452-4000

***Notes**

VERSION 1: Sample receipt temperature 4°C.

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days following analysis, unless expressly agreed otherwise in writing. Please contact your Client Project Manager if you require additional sample storage time.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.



Certificate of Analysis

AGAT WORK ORDER: 20V680684

PROJECT: Year 2

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: DEEP BAY IMPROVEMENT DISTRICT

ATTENTION TO: Leslie Carter

SAMPLING SITE:

SAMPLED BY:

Anions and Ammonia

DATE RECEIVED: 2020-11-20

DATE REPORTED: 2020-11-27

Parameter	Unit	SAMPLE DESCRIPTION:		WELL #1	WELL #2	WELL #3	WELL #4	WELL #5	WELL #6	WELL #7
		G / S	RDL	Water	Water	Water	Water	Water	Water	Water
		1715103	1715108	1715109	1715110	1715111	1715112	1715113		
Chloride	mg/L	250	0.05	1.25	1.30	1.06	1.21	2.17	1.21	3.16
Nitrate-N	mg/L	10	0.005	0.025	<0.005	0.032	0.032	0.105	0.127	0.057
Nitrite-N	mg/L	1	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Sulphate	mg/L	500	0.5	0.7	<0.5	0.9	1.0	0.6	0.6	0.6
Fluoride	mg/L	1.5	0.02	<0.02	<0.02	<0.02	<0.02	0.02	0.02	<0.02
Bromide	mg/L		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ammonia-N	mg/L		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR Schedule 3.2 - Drinking Water in mg/L
 Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

Analysis performed at AGAT Vancouver (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 20V680684

PROJECT: Year 2

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: DEEP BAY IMPROVEMENT DISTRICT

ATTENTION TO: Leslie Carter

SAMPLING SITE:

SAMPLED BY:

BC CSR Omnibus Dissolved Fe, Pb, Zn, K (mg/L)

DATE RECEIVED: 2020-11-20

DATE REPORTED: 2020-11-27

Parameter	Unit	SAMPLE DESCRIPTION:		WELL #1	WELL #2	WELL #3	WELL #4	WELL #5	WELL #6	WELL #7
		G / S	RDL	Water	Water	Water	Water	Water	Water	Water
DATE SAMPLED:		2020-11-19		2020-11-19	2020-11-19	2020-11-19	2020-11-19	2020-11-19	2020-11-19	2020-11-19
		08:00		08:15	08:30	08:45	09:00	09:15	09:30	09:30
		1715103		1715108	1715109	1715110	1715111	1715112	1715113	1715113
Iron Dissolved	mg/L	6.5	0.01	<0.01	0.02	<0.01	<0.01	0.03	<0.01	<0.01
Lead Dissolved	mg/L	0.01	0.00005	0.00006	0.00021	0.00006	<0.00005	<0.00005	<0.00005	<0.00005
Potassium Dissolved	mg/L		0.05	0.23	0.15	0.24	0.27	0.41	0.39	0.37
Zinc Dissolved	mg/L	3	0.002	0.017	0.026	0.012	0.010	<0.002	<0.002	<0.002
Filter for Dissolved Metals(Van)				FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD
Hardness (calc)	mg CaCO3/L		0.5	29.8	15.0	33.3	33.6	41.1	44.5	38.7

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR Schedule 3.2 - Drinking Water in mg/L
 Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.
 Analysis performed at AGAT Vancouver (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 20V680684

PROJECT: Year 2

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
CANADA V5J 0B6
TEL (778)452-4000
FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: DEEP BAY IMPROVEMENT DISTRICT

ATTENTION TO: Leslie Carter

SAMPLING SITE:

SAMPLED BY:

Turbidity, Colour, pH										
DATE RECEIVED: 2020-11-20					DATE REPORTED: 2020-11-27					
SAMPLE DESCRIPTION:				WELL #1	WELL #2	WELL #3	WELL #4	WELL #5	WELL #6	WELL #7
SAMPLE TYPE:				Water	Water	Water	Water	Water	Water	Water
DATE SAMPLED:				2020-11-19 08:00	2020-11-19 08:15	2020-11-19 08:30	2020-11-19 08:45	2020-11-19 09:00	2020-11-19 09:15	2020-11-19 09:30
Parameter	Unit	G / S	RDL	1715103	1715108	1715109	1715110	1715111	1715112	1715113
pH	pH units		0.01	7.56	7.15	7.52	7.41	7.75	7.74	7.69
Turbidity	NTU		0.1	1.5	5.2	0.7	0.2	2.6	0.4	0.1
True Colour	Colour units		5	<5	<5	<5	<5	<5	<5	<5

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR Schedule 3.2 - Drinking Water in mg/L
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

1715103-1715113 Literature holding time exceeded for pH analysis.

Analysis performed at AGAT Vancouver (unless marked by *)

Certified By:

Quality Assurance

CLIENT NAME: DEEP BAY IMPROVEMENT DISTRICT
PROJECT: Year 2
SAMPLING SITE:

AGAT WORK ORDER: 20V680684
ATTENTION TO: Leslie Carter
SAMPLED BY:

Water Analysis															
RPT Date: Nov 27, 2020			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Anions and Ammonia

Chloride	1711888		2.10	2.10	0.1%	< 0.05	101%	90%	110%	94%	90%	110%
Nitrate-N	1711888		<0.005	<0.005	NA	< 0.005	98%	90%	110%	106%	90%	110%
Nitrite-N	1711888		<0.005	<0.005	NA	< 0.005				101%	90%	110%
Sulphate	1711888		0.6	0.6	NA	< 0.5	96%	90%	110%	101%	90%	110%
Fluoride	1711888		0.25	0.23	7.0%	< 0.02	94%	85%	115%	101%	90%	110%
Bromide	1711888		<0.05	<0.05	NA	< 0.05	95%	85%	115%	105%	90%	110%
Ammonia-N	1715103		NA	NA	NA	< 0.01	102%	85%	115%	102%	90%	110%

Comments: RPDs are calculated using raw analytical data and not the rounded duplicate values reported.

Turbidity, Colour, pH

pH	1714060		7.88	7.91	0.4%		100%	95%	105%			
Turbidity	1713440		1.9	1.8	5.4%	< 0.1	98%	85%	115%	100%	85%	115%
True Colour	1715103		<5	<5	NA	< 5	96%	90%	110%	96%	80%	120%

Comments: RPDs are calculated using raw analytical data and not the rounded duplicate values reported.

BC CSR Omnibus Dissolved Fe, Pb, Zn, K (mg/L)

Iron Dissolved	1715103		<0.01	<0.01	NA	< 0.01	98%	70%	130%	101%	85%	115%
Lead Dissolved	1715103		0.00006	0.00005	NA	< 0.00005	95%	70%	130%	105%	85%	115%
Potassium Dissolved	1715103		0.23	0.26	NA	< 0.05	97%	70%	130%	99%	85%	115%
Zinc Dissolved	1715103		0.017	0.017	3.2%	< 0.002	95%	70%	130%	90%	85%	115%

Comments: RPDs are calculated using raw analytical data and not the rounded duplicate values reported.

Certified By: _____



Method Summary

CLIENT NAME: DEEP BAY IMPROVEMENT DISTRICT

AGAT WORK ORDER: 20V680684

PROJECT: Year 2

ATTENTION TO: Leslie Carter

SAMPLING SITE:
SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Chloride	INOR-181-6002	Modified from SM 4110 B	ION CHROMATOGRAPH
Nitrate-N	INOR-181-6002	Modified from SM 4110 B	ION CHROMATOGRAPH
Nitrite-N	INOR-181-6002	Modified from SM 4110 B	ION CHROMATOGRAPH
Sulphate	INOR-181-6002	Modified from SM 4110 B	ION CHROMATOGRAPH
Fluoride	INOR-181-6002	Modified from SM 4110 B	ION CHROMATOGRAPH
Bromide	INOR-181-6002	Modified from SM 4110 B	ION CHROMATOGRAPH
Ammonia-N	INOR-181-6001	Modified from SM 4500-NH3 G	CONTINUOUS FLOW ANALYZER
Iron Dissolved	MET-181-6101, LAB-181-4015	Modified from SM 3120 B	ICP/OES
Lead Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Potassium Dissolved	MET-181-6101, LAB-181-4015	Modified from SM 3120 B	ICP/OES
Zinc Dissolved	MET-181-6102, LAB-181-4015	Modified from SM 3125 B	ICP-MS
Filter for Dissolved Metals(Van)			
pH	INOR-181-6000	Modified from SM 4500-H+	PH METER
Turbidity	INOR-181-6008	SM 2130 B	NEPHELOMETER
True Colour	INOR-181-6033	Modified from BC MOE Lab Manual Section B (Colour,	SPECTROPHOTOMETER

AGAT Laboratories

SAMPLE INTEGRITY RECEIPT FORM - BURNABY

Work Order # 20V680684

RECEIVING BASICS:

Received From: Ace carrier Waybill #: _____

SAMPLE QUANTITIES:

Coolers: 1 Containers: 21 bottles

TIME SENSITIVE ISSUES:

Earliest Date Sampled: Nov/19/2020 ALREADY EXCEEDED? Yes No

NON-CONFORMANCES:

3 temperatures of samples* and average of each cooler: (record differing temperatures on the CoC next to sample ID's) *use jars when available

(1) A + 3 + 5 = 4 °C (2) ___ + ___ + ___ = ___ °C (3) ___ + ___ + ___ = ___ °C (4) ___ + ___ + ___ = ___ °C

Was ice or ice pack present: Yes No

Integrity Issues:

Account Project Manager: _____ have they been notified of the above issues: Yes No

Whom spoken to: _____ Date and Time: _____

ADDITIONAL NOTES: