

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

ATTENTION TO: LESLIE CARTER

PROJECT:

AGAT WORK ORDER: 17V282760

WATER ANALYSIS REVIEWED BY: Andrew Garrard, B.Sc., General Manager

DATE REPORTED: Nov 16, 2017

PAGES (INCLUDING COVER): 8

VERSION*: 2

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

***NOTES**

VERSION 2: Sample receipt temperature 5°C.

Version 2 is issued to apply the BC CSR Drinking Water Guideline and to report Metals analysis in mg/L as requested by Leslie Carter of Deep Bay Improvement District on November 17, 2017. Version 2 is an amendment to Version 1.

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 17V282760

PROJECT:

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 Nutrients

DATE RECEIVED: 2017-11-09

DATE REPORTED: 2017-11-16

Parameter	Unit	SAMPLE DESCRIPTION:		Well 1	Well 2	Well 3	Well 4	Well 5	Well 6	Well 8
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		2017-11-08	2017-11-08	2017-11-08	2017-11-08	2017-11-08	2017-11-08	2017-11-08
		G / S	RDL	8895094	8895112	8895113	8895114	8895115	8895116	8895118
Chloride	mg/L	250	0.05	1.57	1.59	1.07	1.52	3.24	1.25	2.12
Nitrate-N	mg/L	10	0.005	0.022	<0.005	0.037	0.055	0.148	0.061	0.063
Nitrite-N	mg/L	3.2	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Sulphate	mg/L	500	0.5	0.6	<0.5	0.8	1.0	0.7	0.5	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 BCCSR(DW)mg/L(Van)
 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.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17V282760

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CLIENT NAME: DEEP BAY IMPROVEMENT DISTRICT

ATTENTION TO: LESLIE CARTER

SAMPLING SITE:

SAMPLED BY:

Physical Tests Package

DATE RECEIVED: 2017-11-09

DATE REPORTED: 2017-11-16

Parameter	Unit	SAMPLE DESCRIPTION:		Well 1	Well 2	Well 3	Well 4	Well 5	Well 6	Well 8
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		2017-11-08	2017-11-08	2017-11-08	2017-11-08	2017-11-08	2017-11-08	2017-11-08
		G / S	RDL	8895094	8895112	8895113	8895114	8895115	8895116	8895118
pH	pH units	0.01		7.11	6.56	6.93	6.88	7.19	7.23	7.19
True Colour	Colour units	5	<5	<5	<5	<5	<5	<5	<5	<5
Turbidity	NTU	0.1	0.2	17.8	0.8	0.2	0.1	0.3	0.4	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BCCSR(DW)mg/L(Van)
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8895094-8895118 Literature holding time exceeded for pH analysis.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 17V282760

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CLIENT NAME: DEEP BAY IMPROVEMENT DISTRICT

ATTENTION TO: LESLIE CARTER

SAMPLING SITE:

SAMPLED BY:

Total Iron, Lead, Potassium, Zinc

DATE RECEIVED: 2017-11-09

DATE REPORTED: 2017-11-16

Parameter	Unit	SAMPLE DESCRIPTION:		Well 1	Well 2	Well 3	Well 4	Well 5	Well 6	Well 8
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		2017-11-08	2017-11-08	2017-11-08	2017-11-08	2017-11-08	2017-11-08	2017-11-08
		G / S	RDL	8895094	8895112	8895113	8895114	8895115	8895116	8895118
Iron Total	mg/L	6.5	0.01	0.03	1.59	0.11	<0.01	<0.01	0.01	0.02
Lead Total	mg/L	0.01	0.00005	0.00039	0.0137	0.00060	0.00063	0.00013	0.00014	0.00021
Potassium Total	mg/L		0.1	0.3	0.1	0.2	0.2	0.4	0.4	0.4
Zinc Total	mg/L	5	0.005	0.020	0.020	0.014	0.021	<0.005	<0.005	<0.005

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BCCSR(DW)mg/L(Van)
 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.

Certified By:

Quality Assurance

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

AGAT WORK ORDER: 17V282760
ATTENTION TO: LESLIE CARTER
SAMPLED BY:

Water Analysis															
RPT Date: Nov 16, 2017			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

Physical Tests Package

pH	8892890		7.56	7.63	0.9%		100%	95%	105%					
True Colour	8895094	8895094	<5	<5	NA	< 5	108%	90%	110%	98%	80%	120%		
Turbidity	8895094	8895094	0.2	0.2	NA	< 0.1	99%	85%	115%	98%	85%	115%		

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

Anions and Nutrients

Chloride	8895094	8895094	1.57	1.58	0.6%	< 0.05	103%	90%	110%	95%	90%	110%		
Nitrate-N	8895094	8895094	0.022	0.024	NA	< 0.005	99%	90%	110%	96%	90%	110%		
Nitrite-N	8895094	8895094	<0.005	<0.005	NA	< 0.005				101%	90%	110%		
Sulphate	8895094	8895094	0.6	0.6	NA	< 0.5	94%	90%	110%	97%	90%	110%		
Fluoride	8895094	8895094	<0.02	<0.02	NA	< 0.02	94%	85%	115%	96%	90%	110%		
Bromide	8895094	8895094	<0.05	<0.05	NA	< 0.05	110%	85%	115%	103%	90%	110%		
Ammonia-N	8895094	8895094	<0.01	<0.01	NA	< 0.01	100%	85%	115%	98%	90%	110%		

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

Total Iron, Lead, Potassium, Zinc

Iron Total	8892594		0.46	0.45	1.7%	< 0.01	112%	85%	115%	99%	90%	110%		
Lead Total	8892594		<0.00005	<0.00005	NA	< 0.00005	107%	85%	115%	106%	90%	110%		
Potassium Total	8892594		0.9	0.9	0.5%	< 0.1	101%	85%	115%	103%	90%	110%		
Zinc Total	8892594		<0.005	<0.005	NA	< 0.005	99%	85%	115%	99%	90%	110%		

Certified By: 



Method Summary

CLIENT NAME: DEEP BAY IMPROVEMENT DISTRICT

AGAT WORK ORDER: 17V282760

PROJECT:

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
pH	INOR-181-6000	Modified from SM 4500-H+	PH METER
True Colour	INOR-181-6033	Modified from BC MOE Lab Manual Section B (Colour,	PC TITRATE
Turbidity	INOR-181-6008	SM 2130 B	PC TITRATE
Iron Total	MET-181-6101, LAB-181-4009	Modified from SM 3120 B	ICP/OES
Lead Total	MET-181-6102, LAB-181-4009	Modified from SM 3125 B	ICP-MS
Potassium Total	MET-181-6101, LAB-181-4009	Modified from SM 3120 B	ICP/OES
Zinc Total	MET-181-6102, LAB-181-4009	Modified from SM 3125 B	ICP-MS



AGAT Laboratories

120 - 8600 Glenlyon Parkway
 Burnaby, BC
 V5J 0B6
 P: 778.452.4000 • F: 778.452.4074

Chain of Custody Record

Report Information

Company: Deep Bay Improvement Dist
 Contact: Leslie Carter
 Address: 5031 Mountainview Rd
Bowser, BC V0R 1G0
 Phone: 00 757-9310 Fax: 757-9312
 AGAT Quote #: _____
 Client Project #: _____

Invoice To Same as above Yes No
 Company: _____
 Contact: _____
 Address: _____
 Phone: _____ Fax: _____
 PO/AFE#: _____

Report Information

1. Name: Leslie Carter
 Email: admin@doid.ca
 2. Name: Don Buchner
 Email: dons@stone-shaw.ca

Requirements (Please Check)

- BC CSR Soil
 AL
 IL
 PL
 CL
 RL
- BC CSR - Water
 DW
 AW
 IW
 LW

Schedule 11 (Please Specify) _____
 CCME (Please Specify) _____
 Other (Please Specify) _____

Report Format

- Single Sample per page
 Multiple Samples per page
 Excel Format Included

Laboratory Use Only
 Arrival Temperature: 5°C
 AGAT Job Number: 17V282760

Notes:

Turnaround Time Required (TAT)

- Regular TAT 5 to 7 working days
 Rush TAT Day 2 - 100%
 Day 3 - 50%
 Day 4 - 25%

Date Required: _____
 PLEASE CONTACT LABORATORY IF RUSH REQUIRED SAMPLE
 SUBMISSION CUT OFF FOR EFFECTIVE DATE BY 3 PM

LABORATORY USE (LAB ID #)	SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE/TIME SAMPLED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT	NUMBER OF CONTAINERS	RESERVED (Y/N)	HAZARDOUS (Y/N)	Hold for: <input type="checkbox"/> 60 DAYS
<u>8875094</u>	<u>Well 1</u>		<u>NOV8/17 11:45AM</u>					
<u>1112</u>	<u>well 2</u>		<u>NOV8/17 11:15AM</u>					
<u>1113</u>	<u>well 3</u>		<u>NOV8/17 11:30AM</u>					
<u>1114</u>	<u>well 4</u>		<u>NOV8/17 11 AM</u>					
<u>1115</u>	<u>well 5</u>		<u>NOV8/17 10:30AM</u>					
<u>1116</u>	<u>well 6</u>		<u>NOV8/17 10:45AM</u>					
<u>1118</u>	<u>well 8</u>		<u>NOV8/17 10:15AM</u>					

Anion, Ph, Turb, Color
Ammonia
Total Fe, Pb, Zn, K

Samples Relinquished By (Print Name and Sign):
 Samples Relinquished By (Print Name and Sign):
 Samples Relinquished By (Print Name and Sign):

Date/Time
 Date/Time
 Date/Time

Samples Received By (Print Name and Sign):
 Samples Received By (Print Name and Sign):
 Samples Received By (Print Name and Sign):

Date/Time
 Date/Time
 Date/Time

Document #: DW-156-1550-003 Date Revised: July 16, 2013

AGAT Laboratories

SAMPLE INTEGRITY RECEIPT FORM - BURNABY

Work Order # 17V282760

RECEIVING BASICS:

Received From: Ace-Nia

Waybill #: _____

SAMPLE QUANTITIES:

Coolers: 1 Containers: 21

TIME SENSITIVE ISSUES:

Earliest Date Sampled: 08-Nov-17

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) 5 + 5 + 4 = 5 °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:

