

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

**ATTENTION TO: LESLIE CARTER**

**PROJECT:**

**AGAT WORK ORDER: 16V168444**

**WATER ANALYSIS REVIEWED BY: Angela Bond, Technical Reviewer**

**DATE REPORTED: Dec 13, 2016**

**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 1°C.

**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: 16V168444

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: 2016-12-07

DATE REPORTED: 2016-12-13

Parameter	Unit	SAMPLE DESCRIPTION:		WELL # 1	WELL # 2	WELL # 3	WELL # 4	WELL # 6	WELL # 8
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		2016-12-06	2016-12-06	2016-12-06	2016-12-06	2016-12-06	2016-12-06
		G / S	RDL	8072989	8072990	8072993	8072994	8072995	8072997
Chloride	mg/L	0.05	1.64	1.64	1.63	0.93	1.02	1.49	3.43
Nitrate-N	mg/L	0.005	0.023	0.023	0.035	0.032	0.036	0.073	0.114
Nitrite-N	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Sulphate	mg/L	0.5	0.6	0.6	<0.5	0.7	1.1	0.6	0.5
Fluoride	mg/L	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

**Certified By:**



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CLIENT NAME: DEEP BAY IMPROVEMENT DISTRICT

ATTENTION TO: LESLIE CARTER

SAMPLING SITE:

SAMPLED BY:

### British Columbia CSR - Schedule 6 Total Metals

DATE RECEIVED: 2016-12-07

DATE REPORTED: 2016-12-13

Parameter	Unit	SAMPLE DESCRIPTION:		WELL # 1	WELL # 2	WELL # 3	WELL # 4	WELL # 6	WELL # 8
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		2016-12-06	2016-12-06	2016-12-06	2016-12-06	2016-12-06	2016-12-06
		G / S	RDL	8072989	8072990	8072993	8072994	8072995	8072997
Iron Total	µg/L	10	<10	417	68	45	<10	375	
Lead Total	µg/L	0.05	0.15	3.14	0.27	<0.05	<0.05	0.09	
Potassium Total	µg/L	100	206	219	183	200	327	337	
Zinc Total	µg/L	5	16	6	11	183	<5	<5	
Total Hardness (calc)	ug CaCO3/L	100	29600	30000	29900	30400	38600	35400	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

**Certified By:**



## Certificate of Analysis

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CLIENT NAME: DEEP BAY IMPROVEMENT DISTRICT

ATTENTION TO: LESLIE CARTER

SAMPLING SITE:

SAMPLED BY:

### Physical Tests Package

DATE RECEIVED: 2016-12-07

DATE REPORTED: 2016-12-13

Parameter	Unit	SAMPLE DESCRIPTION:		WELL # 1	WELL # 2	WELL # 3	WELL # 4	WELL # 6	WELL # 8
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		2016-12-06	2016-12-06	2016-12-06	2016-12-06	2016-12-06	2016-12-06
		G / S	RDL	8072989	8072990	8072993	8072994	8072995	8072997
pH	pH units	0.01		7.14	7.21	7.16	7.09	7.43	7.46
True Colour	Colour units	5	<5	<5	<5	<5	<5	<5	<5
Turbidity	NTU	0.1	<0.1	<0.1	1.3	0.4	<0.1	<0.1	1.3

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard  
 8072989-8072997 Literature holding time exceeded for pH analysis.

**Certified By:**

## Quality Assurance

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

**AGAT WORK ORDER:** 16V168444  
**ATTENTION TO:** LESLIE CARTER  
**SAMPLED BY:**

Water Analysis															
RPT Date: Dec 13, 2016			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

**British Columbia CSR - Schedule 6 Total Metals**

Iron Total	8073492		141	141	0.3%	< 10	100%	85%	115%	101%	90%	110%
Lead Total	8073492		0.55	0.53	4.6%	< 0.05	100%	85%	115%	103%	90%	110%
Potassium Total	8073492		114	153	NA	< 100	97%	85%	115%	102%	90%	110%
Zinc Total	8073492		13	13	NA	< 5	102%	85%	115%	96%	90%	110%

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

**Anions and Nutrients**

Chloride	8071636		3.01	3.01	0.1%	< 0.05	103%	90%	110%	98%	90%	110%
Nitrate-N	8071636		0.057	0.059	2.7%	< 0.005	100%	90%	110%	109%	90%	110%
Nitrite-N	8071636		<0.005	<0.005	NA	< 0.005				102%	90%	110%
Sulphate	8071636		0.9	0.9	NA	< 0.5	96%	90%	110%	98%	90%	110%
Fluoride	8071636		<0.02	<0.02	NA	< 0.02	98%	85%	115%	106%	90%	110%
Bromide	8071636		<0.05	<0.05	NA	< 0.05	107%	85%	115%	106%	90%	110%
Ammonia-N	8049063		0.02	0.02	NA	< 0.01	107%	85%	115%	102%	90%	110%

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

**Physical Tests Package**

pH	8073140		7.55	7.57	0.3%	< 0.01	100%	95%	105%			
True Colour	8072989		<5	<5	NA	< 5	106%	90%	110%	104%	80%	120%
Turbidity	8072360		<0.1	<0.1	NA	< 0.1	103%	85%	115%	101%	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

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SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
<b>Water Analysis</b>			
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 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
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



# AGAT Laboratories

120 - 8600 Glenlyon Parkway  
Burnaby, BC  
V5J 0B6  
webearth.agatlabs.com

**Laboratory Use Only**  
Arrival Temperature: 1°C  
AGAT Job Number: 16J168444

## Chain of Custody Record

**Report Information**

Company: Deep Bay Improvement District  
 Contact: Leslie Carter  
 Address: 5031 Mountainview Road  
 Bowser, BC V0R 1G0  
 Phone: 250-757-9312 Fax: \_\_\_\_\_  
 AGAT Quote #: 146692DN  
 Client Project #: \_\_\_\_\_

**Report Information**

1. Name: Leslie Carter  
 Email: admin@abid.ca  
 2. Name: \_\_\_\_\_  
 Email: \_\_\_\_\_

**Requirements (Please Check)**

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

Schedule 11 (Please Specify) \_\_\_\_\_  
 CCME (Please Specify) \_\_\_\_\_  
 Other (Please Specify) \_\_\_\_\_

**Report Format**

Single Sample per page  
 Multiple Samples per page  
 Excel Format Included

**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

**Invoice To** Same as above Yes  No

Company: \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 PO/A/E#: \_\_\_\_\_

LABORATORY USE (LAB ID #)	SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE/TIME SAMPLED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT	Anions	pH	Turbidity	Color	Ammonia	Total Fe, Pb, Zn, K, Hardness	NUMBER OF CONTAINERS	RESERVED (Y/N)	HAZARDOUS (Y/N)	Hold for: <input type="checkbox"/> 60 DAYS
807824	WELL #1	Water	DEC 6/16 8 AM		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		3			
990	WELL #2	Water	DEC 6/16 8:20 AM		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		3			
993	WELL #3	Water	DEC 6/16 8:40 AM		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		3			
994	WELL #4	Water	DEC 6/16 9 AM		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		3			
995	WELL #6	Water	DEC 6/16 9:20 AM		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		3			
997	WELL #8	Water	DEC 6/16 9:40 AM		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		3			

Samples Relinquished By (Print Name and Sign): Don Buchner Date/Time: DEC 6/16 10 AM

Samples Relinquished By (Print Name and Sign): \_\_\_\_\_ Date/Time: \_\_\_\_\_

Samples Relinquished By (Print Name and Sign): \_\_\_\_\_ Date/Time: \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_

V106260



# AGAT Laboratories

## SAMPLE INTEGRITY RECEIPT FORM - BURNABY

Work Order # 16V168444

**RECEIVING BASICS:**

Received From: ACE - client Waybill #: \_\_\_\_\_

**SAMPLE QUANTITIES:**

Coolers: 1 Containers: 18

**TIME SENSITIVE ISSUES:**

Earliest Date Sampled: 06 Dec 2016 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) 1 + 0 + 1 = 1 °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:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_