AGAT Laboratories

2910 12TH STREET NE
CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 24V232327

PROJECT: Wells # 1,2,3,4

CLIENT NAME: BOWSER WATERWORKS DISTRICT

ATTENTION TO: KEN CARTER

SAMPLING SITE:

SAMPLED BY:Don Buchner

British Columbia CSR - Omnibus Total Metals plus LL Mercury (mg/L)

DATE RECEIVED: 2024-12-13

DATE REPORTED: 2024-12-24

		SAMPLE DESCRIPTION:		WELL #1	WELL #2	WELL #3	WELL #4
		SAMPLE TYPE:		Water	Water	Water	Water
		DATE SAMPLED:		2024-12-11 08:00	2024-12-11 08:15	2024-12-11 08:30	2024-12-11 08:45
Parameter	Unit	G / S	RDL	6413515	6413536	6413537	6413538
Total Aluminum	mg/L		0.004	0.062	0.021	0.016	0.029
Total Antimony	mg/L		0.001	<0.001	<0.001	<0.001	<0.001
Total Arsenic	mg/L		0.001	<0.001	<0.001	<0.001	<0.001
Total Barium	mg/L		0.05	<0.05	<0.05	<0.05	<0.05
Total Beryllium	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Total Boron	mg/L		0.01	<0.01	<0.01	<0.01	<0.01
Total Cadmium	mg/L		0.000016	<0.000016	<0.000016	<0.000016	<0.000016
Total Calcium	mg/L		0.05	4.66	7.72	11.3	12.6
Total Chromium	mg/L		0.0005	0.0009	0.0010	0.0023	0.0015
Total Cobalt	mg/L		0.00001	0.00021	0.00003	0.00004	0.00007
Total Copper	mg/L		0.0008	0.0010	0.0009	0.0010	0.0013
Total Iron	mg/L		0.01	0.22	0.06	0.17	0.07
Total Lead	mg/L		0.0001	0.0002	0.0002	0.0002	0.0002
Total Lithium	mg/L		0.001	<0.001	0.004	<0.001	<0.001
Total Magnesium	mg/L		0.005	1.49	2.09	4.63	5.06
Total Manganese	mg/L		0.0002	0.0257	0.0016	0.0140	0.0019
Total Mercury- Ultra Low Level	mg/L		0.0000025	< 2.50E-06	< 2.50E-06	< 2.50E-06	< 2.50E-06
Total Molybdenum	mg/L		0.001	<0.001	<0.001	<0.001	<0.001
Total Nickel	mg/L		0.003	<0.003	<0.003	<0.003	<0.003
Total Potassium	mg/L		0.02	0.14	0.28	0.46	0.47
Total Selenium	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Total Silver	mg/L		0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Total Sodium	mg/L		0.02	4.19	3.00	2.75	3.15
Total Strontium	mg/L		0.001	0.019	0.025	0.025	0.026
Total Thallium	mg/L		0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Tin	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Total Titanium	mg/L		0.001	0.002	<0.001	<0.001	<0.001
Total Tungsten	mg/L		0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Uranium	mg/L		0.001	<0.001	<0.001	<0.001	<0.001

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Certificate of Analysis

AGAT WORK ORDER: 24V232327

PROJECT: Wells # 1,2,3,4

CLIENT NAME: BOWSER WATERWORKS DISTRICT

ATTENTION TO: KEN CARTER

SAMPLING SITE:

SAMPLED BY:Don Buchner

British Columbia CSR - Omnibus Total Metals plus LL Mercury (mg/L)

DATE RECEIVED: 2024-12-13

DATE REPORTED: 2024-12-24

				SAMPLE DESCRIPTION:	WELL #1	WELL #2	WELL #3	WELL #4
				SAMPLE TYPE:	Water	Water	Water	Water
				DATE SAMPLED:	2024-12-11 08:00	2024-12-11 08:15	2024-12-11 08:30	2024-12-11 08:45
Parameter	Unit	G / S	RDL		6413515	6413536	6413537	6413538
Total Vanadium	mg/L		0.001		0.001	0.002	0.003	0.004
Total Zinc	mg/L		0.004		<0.004	<0.004	0.026	0.029

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

6413515-6413538 < - Values refer to Method Detection Limit.
Hardness is a calculated parameter. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Calgary (unless marked by *)

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Certificate of Analysis

AGAT WORK ORDER: 24V232327

PROJECT: Wells # 1,2,3,4

CLIENT NAME: BOWSER WATERWORKS DISTRICT

ATTENTION TO: KEN CARTER

SAMPLING SITE:

SAMPLED BY:Don Buchner

Water Analysis - Anion Scan in Water

DATE RECEIVED: 2024-12-13

DATE REPORTED: 2024-12-24

		SAMPLE DESCRIPTION:		WELL #1	WELL #2	WELL #3	WELL #4
		SAMPLE TYPE:		Water	Water	Water	Water
		DATE SAMPLED:		2024-12-11 08:00	2024-12-11 08:15	2024-12-11 08:30	2024-12-11 08:45
Parameter	Unit	G / S	RDL	6413515	6413536	6413537	6413538
Chloride	mg/L		1.0	4.6	1.6	4.4	5.6
Nitrate	mg/L		0.5	<0.5	<0.5	<0.5	<0.5
Nitrite	mg/L		0.05	<0.05	<0.05	<0.05	<0.05
Sulfate	mg/L		1.0	<1.0	<1.0	<1.0	<1.0
Fluoride	mg/L		0.01	<0.01	<0.01	<0.01	<0.01
Bromide	mg/L		0.1	<0.1	<0.1	<0.1	<0.1

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

Analysis performed at AGAT Calgary (unless marked by *)

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Certificate of Analysis

AGAT WORK ORDER: 24V232327

PROJECT: Wells # 1,2,3,4

CLIENT NAME: BOWSER WATERWORKS DISTRICT

ATTENTION TO: KEN CARTER

SAMPLING SITE:

SAMPLED BY:Don Buchner

Water Analysis - Sulfide, TOC, NH3

DATE RECEIVED: 2024-12-13

DATE REPORTED: 2024-12-24

		SAMPLE DESCRIPTION:		WELL #1	WELL #2	WELL #3	WELL #4
		SAMPLE TYPE:		Water	Water	Water	Water
		DATE SAMPLED:		2024-12-11 08:00	2024-12-11 08:15	2024-12-11 08:30	2024-12-11 08:45
Parameter	**Unit**	**G / S**	**RDL**	**6413515**	**6413536**	**6413537**	**6413538**
Ammonia, Total (as N)	mg/L		0.02	<0.02	<0.02	<0.02	<0.02
Sulfide	mg/L		0.0200	<0.0200	<0.0200	<0.0200	<0.0200
Total Organic Carbon	mg/L		0.5	1.7	<0.5	<0.5	<0.5

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

Analysis performed at AGAT Calgary (unless marked by *)

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Quality Assurance

CLIENT NAME: BOWSER WATERWORKS DISTRICT

AGAT WORK ORDER: 24V232327

PROJECT: Wells # 1,2,3,4

ATTENTION TO: KEN CARTER

SAMPLING SITE:

SAMPLED BY:Don Buchner

Water Analysis

RPT Date: Dec 24, 2024

PARAMETER	Batch	Sample Id	DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
			Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Water Analysis - Anion Scan in Water															
Chloride	6413515	6413515	4.6	4.7	NA	< 1.0	101%	70%	130%	110%	80%	120%	NA	70%	130%
Nitrate	6413515	6413515	<0.5	<0.5	NA	< 0.5	99%	70%	130%	103%	80%	120%	108%	70%	130%
Nitrite	6413515	6413515	<0.05	<0.05	NA	< 0.05	106%	70%	130%	100%	80%	120%	98%	70%	130%
Sulfate	6413515	6413515	<1.0	<1.0	NA	< 1.0	104%	70%	130%	112%	80%	120%	116%	70%	130%
Fluoride	6413515	6413515	<0.01	<0.01	NA	< 0.01	110%	70%	130%	116%	80%	120%	109%	70%	130%
Bromide	6413515	6413515	<0.1	<0.1	NA	< 0.1	95%	70%	130%	95%	80%	120%	97%	70%	130%

Comments: Matrix spike NA: Spike level < native concentration. Matrix spike acceptance limits do not apply and are not calculated.
Duplicate NA: results are less than 5X the RDL and RDP will not be calculated.

Nitrate and Nitrite: The regulatory hold time for the analysis of nitrate and/or nitrite in water is 72 hours.

British Columbia CSR - Omnibus Total Metals plus LL Mercury (mg/L)															
Total Aluminum	6413538	6413538	0.029	0.011	NA	0.016	109%	70%	130%	NA	80%	120%	NA	70%	130%
Total Antimony	6413538	6413538	<0.001	<0.001	NA	< 0.001	95%	70%	130%	NA	80%	120%	94%	70%	130%
Total Arsenic	6413538	6413538	<0.001	<0.001	NA	< 0.001	100%	70%	130%	NA	80%	120%	105%	70%	130%
Total Barium	6413538	6413538	<0.05	<0.05	NA	< 0.05	101%	70%	130%	NA	80%	120%	96%	70%	130%
Total Beryllium	6413538	6413538	<0.0005	<0.0005	NA	< 0.0005	108%	70%	130%	NA	80%	120%	106%	70%	130%
Total Boron	6413538	6413538	<0.01	<0.01	NA	< 0.01	114%	70%	130%	NA	80%	120%	103%	70%	130%
Total Cadmium	6413538	6413538	<0.	<0.	NA	< 0.000016	100%	70%	130%	NA	80%	120%	100%	70%	130%
Total Calcium	6413538	6413538	12.6	11.4	10.0%	0.07	106%	70%	130%	NA	80%	120%	99%	70%	130%
Total Chromium	6413538	6413538	0.0015	0.0012	NA	0.0019	106%	70%	130%	NA	80%	120%	107%	70%	130%
Total Cobalt	6413538	6413538	0.00017	0.00012	NA	0.00003	106%	70%	130%	NA	80%	120%	108%	70%	130%
Total Copper	6413538	6413538	0.0013	0.0011	NA	< 0.0008	110%	70%	130%	NA	80%	120%	111%	70%	130%
Total Iron	6413538	6413538	0.07	0.05	19.6%	0.03	109%	70%	130%	NA	80%	120%	111%	70%	130%
Total Lead	6413538	6413538	0.0002	0.0002	NA	< 0.0001	105%	70%	130%	NA	80%	120%	101%	70%	130%
Total Lithium	6413538	6413538	<0.001	<0.001	NA	< 0.001	116%	70%	130%	NA	80%	120%	109%	70%	130%
Total Magnesium	6413538	6413538	5.06	4.90	3.1%	0.017	109%	70%	130%	NA	80%	120%	111%	70%	130%
Total Manganese	6413538	6413538	0.0019	0.0019	1.5%	0.0007	106%	70%	130%	NA	80%	120%	106%	70%	130%
Total Mercury- Ultra Low Level	6401842	6401842	0.	0.	NA	< 2.50E-06	112%	70%	130%	111%	80%	120%	105%	70%	130%
Total Molybdenum	6413538	6413538	<0.001	<0.001	NA	< 0.001	98%	70%	130%	NA	80%	120%	93%	70%	130%
Total Nickel	6413538	6413538	<0.003	<0.003	NA	< 0.003	107%	70%	130%	NA	80%	120%	108%	70%	130%
Total Potassium	6413538	6413538	0.47	0.46	3.1%	< 0.02	105%	70%	130%	NA	80%	120%	109%	70%	130%
Total Selenium	6413538	6413538	<0.0005	<0.0005	NA	< 0.0005	108%	70%	130%	NA	80%	120%	108%	70%	130%
Total Silver	6413538	6413538	<0.00005	<0.00005	NA	< 0.00005	108%	70%	130%	NA	80%	120%	104%	70%	130%
Total Sodium	6413538	6413538	3.15	2.99	5.2%	0.08	113%	70%	130%	NA	80%	120%	114%	70%	130%
Total Strontium	6413538	6413538	0.026	0.024	6.6%	< 0.001	100%	70%	130%	NA	80%	120%	100%	70%	130%
Total Thallium	6413538	6413538	<0.0001	<0.0001	NA	< 0.0001	98%	70%	130%	NA	80%	120%	95%	70%	130%
Total Tin	6413538	6413538	<0.0005	<0.0005	NA	< 0.0005	97%	70%	130%	NA	80%	120%	94%	70%	130%
Total Titanium	6413538	6413538	<0.001	<0.001	NA	< 0.001	102%	70%	130%	NA	80%	120%	107%	70%	130%
Total Tungsten	6413538	6413538	<0.0001	<0.0001	NA	< 0.0001	99%	70%	130%	NA	80%	120%	95%	70%	130%

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Quality Assurance

CLIENT NAME: BOWSER WATERWORKS DISTRICT
AGAT WORK ORDER: 24V232327
PROJECT: Wells # 1,2,3,4
ATTENTION TO: KEN CARTER
SAMPLING SITE:
SAMPLED BY:Don Buchner

Water Analysis (Continued)

RPT Date: Dec 24, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Total Uranium	6413538	6413538	<0.001	<0.001	NA	< 0.001	98%	70%	130%	NA	80%	120%	97%	70%	130%
Total Vanadium	6413538	6413538	0.004	0.004	NA	< 0.001	101%	70%	130%	NA	80%	120%	103%	70%	130%
Total Zinc	6413538	6413538	0.029	0.026	11.1%	< 0.004	111%	70%	130%	NA	80%	120%	115%	70%	130%

Comments: Matrix spike NA: Spike level < native concentration. Matrix spike acceptance limits do not apply and are not calculated.
Duplicate NA: results are less than 5X the RDL and RDP will not be calculated.

Water Analysis - Sulfide, TOC, NH3

Ammonia, Total (as N)	6413515	6413515	<0.02	<0.02	NA	< 0.02	100%	70%	130%	98%	80%	120%	109%	70%	130%
Sulfide	6408693	6408693	<0.0200	<0.0200	NA	< 0.0200	99%	80%	120%	98%	80%	120%	98%	80%	120%
Total Organic Carbon	6413515	6413515	1.7	1.7	NA	< 0.5	97%	80%	120%	92%	80%	120%	92%	80%	120%

Comments: Matrix spike NA: Spike level < native concentration. Matrix spike acceptance limits do not apply and are not calculated.
Duplicate NA: results are less than 5X the RDL and RDP will not be calculated.

pH has been analyzed past the recommended holding time of 15 minutes from sampling (field measurement ideal if more accurate data required)

Certified By:

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Method Summary

CLIENT NAME: BOWSER WATERWORKS DISTRICT

AGAT WORK ORDER: 24V232327

PROJECT: Wells # 1,2,3,4

ATTENTION TO: KEN CARTER

SAMPLING SITE:

SAMPLED BY:Don Buchner

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Total Aluminum	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Antimony	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Arsenic	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Barium	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Beryllium	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Boron	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Cadmium	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Calcium	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Chromium	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Cobalt	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Copper	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Iron	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Lead	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Lithium	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Magnesium	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Manganese	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Mercury- Ultra Low Level	INST-0163	EPA 1631	CV/AFS
Total Molybdenum	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP/MS
Total Nickel	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Potassium	WATR 0200; INST 0141	SM 3030 E; SM 31205B	ICP-MS
Total Selenium	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Silver	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Sodium	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Strontium	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Thallium	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Tin	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Titanium	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Tungsten	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Uranium	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Vanadium	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Total Zinc	WATR 0200; INST 0141	SM 3030 E; SM 3125 B	ICP-MS
Chloride	INST 0150	SM 4110 B	ION CHROMATOGRAPH
Nitrate	INST 0150	SM 4110 B	ION CHROMATOGRAPH
Nitrite	INST 0150	SM 4110 B	ION CHROMATOGRAPH
Sulfate	INST 0150	SM 4110 B	ION CHROMATOGRAPH
Fluoride	INST 0150	SM 4110 B	ION CHROMATOGRAPH
Bromide	INST 0150	SM 4110 B	ION CHROMATOGRAPH
Ammonia, Total (as N)	INST 0340	SM 4500-NH3 G	CONTINUOUS FLOW ANALYZER
Sulfide	WATR 0100	SM 4500 S2- D	SPECTROPHOTOMETER
Total Organic Carbon	INST 0170	SM 5310 B	COMBUSTION