



2021 Annual Report on Town of Kentville Municipal Drinking Water

KENTVILLE WATER COMMISSION: JIM RAFUSE, LEROY DILLMAN & DAVID BELL
SUBMITTED TO NOVA SCOTIA DEPARTMENT OF ENVIRONMENT

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PART 1 - STANDARD SUBMISSIONS

Has the Utility submitted following updates for the next year:

Required Submission	Yes	No	N/A
Contingency Plan	X		
Notification Procedure	X		
Annual Sampling Plan (including sampling points location)	X		
QA/QC	X		
Source Water Protection Plan	X		
Lab Information	X		
Operations Manual	X		
Staff List and certification	X		

PART 2 - WATER TREATMENT PLANT MONITORING

WATER TREATMENT

Table 1. Raw water flow - All Sources

Month	PROSPECT AVE Monthly Volume (m³)	MITCHELL AVE. Monthly Volume (m³)	TOTAL Monthly Volume (m³)
January	101,604	3,676	105,280
February	93,906	2,512	96,418
March	107,748	6,269	114,017
April	93,390	17,433	110,823
May	102,041	19,412	121,453
June	112,133	20,956	133,089
July	100,124	18,509	100,142
August	97,293	19,041	116,334
September	85,548	17,560	103,108
October	79,705	17,718	97,423
November	74,467	16,717	91,184
December	78,034	15,590	93,624
Total for the year	1,125,993	175,393	1,282,895

Table 2. Raw water flow - East End Well Pump # 1 (aka Mitchell East No. 1)

Month	Total Monthly Volume (m³)	Max Pumping Rate (3-day)(m³/h)
January	15,242	42
February	13,468	44
March	15,083	42
April	14,609	42
May	14,760	66
June	16,952	45
July	14,790	45
August	14,134	45
September	13,437	52
October	14,683	46
November	14,057	46
December	14,429	45
Total for the year	175,644	-
Maximum month	16,952	66
Average	14,637	47
Water withdraw Approval No 2003-037109-A01	Withdrawal limit volume: Annual 644,911.200 m ³ 30 day 53,006.400 m ³ Withdrawal limit rate: 81.84 m ³ /h	

Comments:

Table 3. Raw water flow - East End Well Pump # 2 (aka Mitchell East No. 2)

Month	Total Monthly Volume (m³)	Max Pumping Rate (3-day)(m³/h)
January	19,523	54
February	17,512	55
March	19,253	55
April	17,674	55
May	19,030	54
June	22,013	57
July	18,155	55
August	18,236	54
September	16,819	54
October	15,948	57
November	15,831	60
December	16,421	55
Total for the year	216,415	-
Maximum month	22,013	60
Average	18,035	55
Water withdraw Approval No 2003-037109-A01	Withdrawal limit (volume): Annual 477,770.400 m³ 30 day 39,268.800 m³ Withdrawal limit (rate): 65.46 m³/h	

Comments:

Table 4. Raw water flow - Bonavista

Month	Total Monthly Volume (m³)	Max Pumping Rate (3-day)(m³/h)
January	16,297	53
February	1,782	53
March	5,630	54
April	No Flow	0
May	No Flow	0
June	9,078	50
July	16,060	45
August	12,592	44
September	10,177	44
October	8,225	44
November	6,956	44
December	7,603	44
Total for the year	94,400	-
Maximum month	16,297	50
Average	7,867	44
Water withdraw Approval No 2003-037109-A01	Withdrawal limit (volume): Annual 239,148.000 m³ 30 day 19,656.000 m³ Withdrawal limit (rate): 32.7 m³/h	

Comments: The pumping rates from January to March exceed the approved value, however higher rates were needed to compensate for 2 wells which were not in operation.

Table 5. Raw water flow - West End Well Pump # 1 (aka West End No. 1)

Month	Total Monthly Volume (m³)	Max Pumping Rate (3-day)(m³/h)
January	17,082	53
February	26,770	52
March	32,009	53
April	25,465	52
May	30,301	52
Jun	22,013	57
July	16,038	52
August	18,407	50
September	12,579	51
October	10,034	52
November	8,440	52
December	9,353	54
Total for the year	206,500	-
Maximum month	32,009	57
Average	17,208	52
Water withdraw Approval No 2003-037109-A01	Withdrawal limit (volume): Annual 573,429.600 m ³ 30 day 47,131.200 m ³ Withdrawal limit (rate): ~76.4 m ³ /h	

Comments:

Table 6. Raw water flow - West End Well Pump # 2 (aka West End No. 2)

Month	Total Monthly Volume (m³)	Max Pumping Rate (3-day)(m³/h)
January	30,667	56
February	32,238	55
March	34,420	55
April	32,986	57
May	34,038	56
June	34,340	58
July	35,903	56
August	35,171	56
September	30,017	57
October	28,958	60
November	27,940	57
December	29,337	56
Total for the year	386,015	-
Maximum month	35,903	60
Average	32,168	57
Water withdraw Approval No 2003-037109-A01	Withdrawal limit (volume): Annual 573,429.600 m ³ 30 day 47,131.200 m ³ Withdrawal limit (rate): ~76.4 m ³ /h	

Comments: The pumping rates from January to March exceed the approved value, however higher rates were needed to compensate for 2 wells which were not in operation.

Table 7. Raw water flow - Mitchell Ave No. 1D (previously Mitchell Ave. Well Pump #1A)

Month	Total Monthly Volume (m³)	Max Pumping Rate (3-day)(m³/h)
January	1,782	34
February	1,023	32
March	3,621	44
April	9,170	41
May	10,698	40
June	10,343	40
July	9,570	40
August	9,250	39
September	8,498	38
October	8,502	40
November	8,376	38
December	7,610	38
Total for the year	88,443	-
Maximum month	10,698	44
Average	7,370	39
Water withdraw Approval No 2003-037109-A01	Withdrawal limit (volume): Annual 329,148.000 m ³ 30 day 27,053.250 m ³ Withdrawal limit (rate): ~90.0 m ³ /h	

Comments:

Table 8. Raw water flow - Mitchell Ave. Well Pump # 2 (previously Mitchell Ave No. 2)

Month	Total Monthly Volume (m³)	Max Pumping Rate (3-day)(m³/h)
January	2,644	45
February	1,473	36
March	3,010	40
April	8,251	41
May	8,958	41
June	10,343	40
July	9,179	40
August	10,062	43
September	9,014	40
October	9,216	42
November	8,342	40
December	7,980	40
Total for the year	88,472	-
Maximum month	10,343	45
Average	7,372	40
Water withdraw Approval No 2003-037109-A01	Withdrawal limit (volume): Annual 315,360.000 m ³ 30 day 25,920.000 m ³ Withdrawal limit (rate): ~47.1 m ³ /h	

Comments: The pumping rates from January to March exceed the approved value, however higher rates were needed to compensate for 2 wells which were not in operation.

Table 9. Filtered water turbidity Kentville is not required to filter raw water

Table 10. Well water turbidity is not sampled from the withdrawal wells

Table 11. Chlorine - Prospect Tank (leaving treatment plant or well)

Month	Chlorine (Disinfectant residual) (mg/l)			CT value
	Minimum this month	How many times below Approval limit (0.2 mg/L)	Maximum this month	How many times CT _{achieved} was less than CT _{required}
January	0.90	0	0.93	0
February	0.71	0	0.93	0
March	0.89	0	0.93	0
April	0.88	0	0.93	0
May	0.89	0	0.94	0
June	0.89	0	0.94	0
July	0.89	0	0.94	0
August	0.89	0	0.93	0
September	0.89	0	0.94	0
October	0.75	0	0.94	0
November	0.89	0	0.92	0
December	0.77	0	0.93	0
If Approval Limits were exceeded provide date of occurrence and date when Department was notified:				
If CT requirements were not met provide date of occurrence and date when Department was notified:				
NOTE: CT values must be calculated daily, or minimum operational conditions must be monitored daily and records kept by Approval Holder				
MINIMUM OPERATIONAL PARAMETERS TO PROVIDE REQUIRED CT (CT calculations for “worst case scenario” must be provided to Department)				
Peak Hourly Flow			227 m ³	
Temperature at CT control Point			8 °C	
Minimum residual at CT control Point			0.50 mg/l	
pH at CT control Point			7.37 to 8.06	
Water level in the tank during peak hourly flow			90%	

Table 12. Chlorine Disinfection – Kentville Business Park (“Kentville Chrysler” site)

Month	Chlorine (Disinfectant residual) (mg/l)			CT value
	Minimum this month	How many times below Approval limit (0.2 mg/L)	Maximum this month	How many times CT _{achieved} was less than CT _{required}
January	0.80	0	0.90	0
February	0.82	0	0.87	0
March	0.81	0	0.93	0
April	0.79	0	0.93	0
May	0.84	0	0.94	0
June	0.88	0	0.94	0
July	0.81	0	0.93	0
August	0.85	0	0.85	0
September	0.88	0	0.93	0
October	0.81	0	0.94	0
November	0.89	0	0.94	0
December	0.89	0	0.93	0
If CT requirements were not met provide date of occurrence and date when Department was notified:				
NOTE: CT values must be calculated daily, or minimum operational conditions must be monitored daily and records kept by Approval Holder				
MINIMUM OPERATIONAL PARAMETERS TO PROVIDE REQUIRED CT (CT calculations for “worst case scenario” must be provided to Department)				
Peak Hourly Flow			227 m ³	
Temperature at CT control Point			8 °C	
Minimum residual at CT control Point			0.70	
pH at CT control Point			7.37 to 8.08	
Water level in the tank during peak hourly flow			90%	

Table 13. Bacteriological quality Prospect Avenue (leaving treatment plant or GUDI well) - not required

Table 14. Bacteriological quality Mitchell Avenue (leaving treatment plant or GUDI well) - not required

Table 15. Fluoride

Month	Minimum this month (mg/l)	Maximum this month (mg/l)
January	0.72	0.80
February	0.60	0.90
March	0.71	0.80
April	0.67	0.77
May	0.63	0.73
June	0.62	0.70
July	0.62	0.69
August	0.60	0.69
September	0.60	0.67
October	0.64	0.68
November	0.67	0.95
December	0.65	0.74
If exceeded Approval limits provide date of occurrence and date when Department was notified:		
Action taken:		

Table 16. Aluminum - **Kentville does not use aluminum-based coagulants**

Table 17. pH - Prospect Raw Water.

Month	Raw water inlet ("Prospect Raw")		CT Control Point ("Prospect Tank")	
	Minimum this month	Maximum this month	Minimum this month	Maximum this month
January	6.58	6.96	7.47	7.80
February	6.61	6.96	7.43	7.67
March	6.54	6.99	7.40	7.80
April	6.58	6.93	7.48	7.67
May	6.61	7.56	7.40	7.85
June	6.39	7.51	7.44	7.68
July	6.53	6.93	7.38	7.70
August	6.23	6.90	7.40	7.80
September	6.30	6.75	7.36	7.75
October	6.30	6.74	7.40	7.76
November	6.24	6.65	7.43	7.85
December	6.30	6.80	7.48	7.84
Comments:				

Table 18. pH - Mitchell Avenue Raw Water.

Month	Raw water inlet ("Mitchell Raw")		CT Control Point ("Kentville Chrysler")	
	Minimum this month	Maximum this month	Minimum this month	Maximum this month
January	6.50	7.67	7.52	7.86
February	6.53	7.68	7.46	7.78
March	6.63	7.72	7.40	7.83
April	6.38	7.67	7.38	7.78
May	6.35	7.56	7.42	7.93
June	6.39	7.51	7.40	7.80
July	6.35	7.61	7.44	7.86
August	6.19	7.90	7.40	7.80
September	6.06	7.49	7.35	7.80
October	6.05	7.56	7.44	7.99
November	6.19	7.51	7.53	7.91
December	6.06	7.49	7.50	7.87
Comments:				

Table 19. Guidelines for Monitoring Public Drinking Water Supplies (Section 33 of Regulations).
See Part 3 for laboratory results **(required for 2021)**

Parameter	Health based guideline (mg/l)	AO [or OG] (mg/l)	Raw (maximum this year)	Treated (maximum this year)	Date	Location
Alkalinity	-	-	72 mg/l	71 mg/l	NOV 03,2021	D.E Hiltz connector road, Mitchell well
Aluminum	0.1/0.2	2900, 100 OG AO	<5 ug/l	<5 ug/l	Nov 03,2021	Prospect, DE hiltz connector, Mitchell well, Bonavista well, West end Well.
Ammonia	-	-	<0.03 mg/l	<0.03 mg/l	NOV 03,2021	Prospect, DE hiltz connector, Mitchell well, Bonavista well, West end Well.
Antimony	0.006	6	<2 ug/l	<2 ug/l	NOV 03,2021	Prospect, DE hiltz connector, Mitchell well, Bonavista well, West end Well.
Arsenic	0.010	10	<2 ug/l	3 ug/l	NOV 03,2021	D.E Hiltz connector road, Mitchell well
Barium	1	2000	40 ug/l	27 ug/l	NOV 03,2021	D.E Hiltz connector road, Mitchell well
Boron	5	-	14 ug/l	11 ug/l	NOV 03,2021	D.E Hiltz connector road, Mitchell well
Cadmium	0.005	7	<0.09 ug/l	<0.09 ug/l	NOV 03,2021	Prospect, DE hiltz connector, Mitchell well, Bonavista well, West end Well.
Calcium	-	-	35.3 mg/l	26.9 mg/l	NOV 03,2021	Prospect, East end Well #2
Chloride	-	<250	145 mg/l	102 mg/l	NOV 03,2021	DE hiltz connector, Mitchell well

Parameter	Health based guideline (mg/l)	AO [or OG] (mg/l)	Raw (maximum this year)	Treated (maximum this year)	Date	Location
Chromium	0.05	50	<1 ug/l	<1 ug/l	NOV 03,2021	Prospect, DE hiltz connector, Mitchell well, Bonavista well, West end Well.
Colour	-	<15	<5 TCU	<5 TCU	NOV 03,2021	Prospect, DE hiltz connector, Mitchell well, Bonavista well, West end Well.
Conductivity	Umho/cm	-	625 umho/cm	589 umho/cm	NOV 03,2021	DE hiltz connector, Mitchell well
Copper	-	<1.0	22 ug/l	7 ug/l	NOV 03,2021	Prospect, East end Well #2
Fluoride	1.5	-	0.12 mg/l	0.72 mg/l	NOV 03,2021	prospect, West end well #2
Hardness	-	-	127 mg/l	83.6 mg/l	NOV 03,2021	prospect, mitchell well #2
Iron	-	<0.3	96 ug/l	<50 ug/l	NOV 03,2021	Prospect, DE hiltz connector, East end Well #2
Lead	0.010	-	8.7 ug/l	<0.5 ug/l	NOV 03,2021	Prospect, DE hiltz connector, East end Well #2
Magnesium	-	-	5.3 mg/l	4 mg/l	NOV 03,2021	Prospect, DE hiltz connector, East end Well #2
Manganese	-	<0.05	<0.2 ug/l	<0.2 ug/l	NOV 03,2021	Prospect, DE hiltz connector, Mitchell well, Bonavista well, West end Well.
Nitrate - nitrogen	10	-	1.02 mg/l	1.12 mg/l	NOV 03,2021	DE hiltz connector, East end Well #2
pH	-	6.5-8.5	7.97	7.95	NOV 03,2021	DE hiltz connector, mitchell well #2

Parameter	Health based guideline (mg/l)	AO [or OG] (mg/l)	Raw (maximum this year)	Treated (maximum this year)	Date	Location
Potassium	-	-	2.8 mg/l	2.4 mg/l	NOV 03,2021	DE hiltz connector, Mitchell well, East end well #2
Selenium	0.05	-	<0.1 ug/l	<0.1 ug/l	NOV 03,2021	Prospect, DE hiltz connector, Mitchell well, Bonavista well, West end Well.
Sodium	-	<200	74.4 mg/l	70.4 mg/l	NOV 03,2021	DE hiltz connector, mitchell well #1
Sulphate	-	<500	19mg/l	17 mg/l	NOV 03,2021	DE hiltz connector, mitchell well #1
Total Dissolved Solids	-	<500	N/A			
Total Organic Carbon	-	-	<1 mg/l	<1 mg/l	NOV 03,2021	
Turbidity	See Approval	-	1.1 ntu	0.5 ntu	NOV 03,2021	DE hiltz connector, East end well #2
Uranium	0.02	-	1.2 ug/l	0.4 ug/l	NOV 03,2021	DE hiltz connector, mitchell well #2
Zinc	-	<5.0	68 ug/l	14 ug/l	NOV 03,2021	DE hiltz connector, East end well #2
Has any of the parameter exceeded Guidelines No.						
If Yes provide date of occurrence and date when Department was notified:						
Action taken:						
Certified Lab: AGAT Laboratories						

Table 20. Prospect Avenue Raw Water turbidity from distribution points

Month	Minimum NTU	Maximum NTU
January	0.10	0.15
February	0.12	0.21
March	0.9	0.21

April	0.12	0.21
May	0.12	0.20
June	0.07	0.20
July	0.10	0.20
August	0.12	0.20
September	0.12	0.21
October	0.14	0.20
November	0.08	0.22
December	0.14	0.21

Table 21. Mitchell Avenue Raw Water turbidity

	Minimum NTU	Maximum NTU
January	0.15	0.28
February	0.19	0.29
March	0.16	0.27
April	0.19	0.28
May	0.12	0.26
June	0.11	0.26
July	0.09	0.26
August	0.14	0.26
September	0.19	0.26
October	0.13	0.28
November	0.16	0.27
December	0.17	0.27

WASTE TREATMENT

Waste water discharge – This does not apply to the Kentville Water Utility

PART 3 - WATER DISTRIBUTION SYSTEM MONITORING

Table 22 A. Distribution System Bacteriology and Disinfection Residual

Site : A		4 Locations: Public Works 875 West Main Street, Research Station, Belcher St. Booster Stn, Camp Aldershot,									
Month	E.coli				Total Coliforms				Free chlorine residual		
	Present	Absent	Total number of samples	% Absent	Present	Absent	Total number of samples	% Absent	Min mg/l	Max mg/l	No. below Approval Limits
January	0	16	4 samples X 4 weeks	100	0	16	4 X 4	100	0.76	0.85	0
February	0	16	4 X 4	100	0	16	4 X 4	100	0.71	0.86	0
March	0	20	5 X 4	100	0	20	5 X 4	100	0.76	0.86	0
April	0	16	4 X 4	100	0	16	4 X 4	100	0.77	0.86	0
May	0	16	4 X 4	100	0	16	4 X 4	100	0.80	0.88	0
June	0	20	5 X 4	100	0	20	5 X 4	100	0.82	0.86	0
July	0	20	5 X 4	100	0	20	5 X 4	100	0.76	0.86	0
August	0	20	5 X 4	100	0	20	5 X 4	100	0.69	0.84	0
September	0	16	4 X 4	100	0	16	4 X 4	100	0.68	0.86	0
October	0	16	4 X 4	100	0	16	4 X 4	100	0.72	0.86	0
November	0	20	5 X 4	100	0	20	5 X 4	100	0.76	0.86	0
December	0	16	4 X 4	100	0	16	4X 4	100	0.66	0.86	0

If Approval limits exceeded, provide date of occurrence and date when epartment was notified: it has been stored in 200L drums for less than 1 month

Table 22 B. Distribution System Bacteriology and Disinfection Residual

Site : B		2 Locations: Kentville Chrysler, Scott Slipp Nissan both in the Kentville Business Park,									
Month	E.coli				Total Coliforms				Free chlorine residual		
	Present	Absent	Total number of samples	% Absent	Present	Absent	Total number of samples	% Absent	Min mg/l	Max mg/l	No. below 0.2 mg/l
January	0	8	2 samples X 4 weeks	100	0	8	2 X 4	100	0.80	0.90	0
February	0	8	2 X 4	100	0	8	2 X 4	100	0.78	0.86	0
March	0	10	2 X 5	100	0	10	2 X 5	100	0.80	0.90	0
April	0	8	2 X 4	100	0	8	2 X 4	100	0.87	0.93	0
May	0	8	2 X 4	100	0	8	2 X 4	100	0.87	0.93	0
June	0	10	2 X 5	100	0	10	2 X 5	100	0.86	0.92	0
July	0	8	2 X 4	100	0	8	2 X 4	100	0.84	0.92	0
August	0	10	2 X 5	100	0	10	2 X 5	100	0.88	0.93	0
September	0	8	2 X 4	100	0	8	2 X 4	100	0.82	0.91	0
October	0	8	2 X 4	100	0	8	2 X 4	100	0.83	0.92	0
November	0	10	2 X 5	100	0	10	2 X 5	100	0.86	0.91	0
December	0	8	2 X 4	100	00	8	2 X 4	100	0.85	0.92	0
Was Ecoli or Total Coliform present in any sample this year?											
If Yes provide date of occurrence and date when Department was notified: Action Taken:											

Table 22 C.

Site : C		2 Locations: Prospect Reservoir and Black Rock Mechanical Reservoir (Kentville Business Park)									
Month	E.coli				Total Coliforms				Free chlorine residual		
	Present	Absent	Total number of samples	% Absent	Present	Absent	Total number of samples	% Absent	Min mg/l	Max mg/l	No. below 0.2 mg/l
January	0	8	2 samples X 4 weeks	100	0	8	2 X 4	100	0.80	0.91	0
February	0	8	2 X 4	100	0	8	2 X 4	100	0.80	0.93	0
March	0	10	2 X 5	100	0	10	2 X 5	100	0.84	0.93	0
April	0	8	2 X 4	100	0	8	2 X 4	100	0.89	0.94	0
May	0	8	2 X 4	100	0	8	2 X 4	100	0.90	0.94	0
June	0	10	2 X 5	100	0	10	2 X 5	100	0.88	0.94	0
July	0	8	2 X 4	100	0	8	2 X 4	100	0.91	0.94	0
August	0	10	2 X 5	100	0	10	2 X 5	100	0.90	0.93	0
September	0	8	2 X 4	100	0	8	2 X 4	100	0.90	0.94	0
October	0	8	2 X 4	100	0	8	2 X 4	100	0.90	0.94	0
November	0	10	2X 5	100	0	10	2 X 5	100	0.90	0.94	0
December	0	8	2 X 4	100	0	8	2 X 4	100	0.86	0.94	0
Was E.Coli or Total Coliform present in any sample this year No											
If Yes provide date of occurrence and date when Department was notified:											
Action taken:											

Table 23. Distribution System THM's – Kentville is only required to test for THM's once a year.

Month	Site A Location: Belcher Street Tank	Site B Location: Coldbrook Village Park	Site C Location:
	THM total mg/l	THM total mg/l	THM total mg/l
January			
February			
March			
April			
May			
June			
July			
August			
September 28, 2021	4	16	
October			
November			
December 20, 2021	1	15	
Annual Average			
Limits			
Comments:	Quarterly to annual sampling was approved in 2018.		

Table 24. Distribution System HAA5

Month	Site A Location: Kentville Chrysler	Site B Location: Belcher Street Tank	Site C Location:
	HAA5 total ug/l	HAA5 total ug/l	HAA5 total ug/l
January			
February			
March			
April			
May			
June			
July			
August			
September 28, 2021	<4.0	<4.0	
October			
November			
December 20, 2021	<4.0	<4.0	
Annual Average			
Limits			
Comments:	Will request to move from quarterly to annual sampling of HAA5s in 2019.		

Table 25. Distribution System Turbidity

Month	Site A - Public Works Location: 875 West Main Street		Site B – Kentville Chrysler Location: 800 Park Street		Site C – Chester Avenue Location: 6060 Hwy 12/Chester Avenue	
	min NTU	max NTU	min NTU	max NTU	min NTU	max NTU
January	0.10	0.19	0.08	0.20	0.09	0.17
February	0.09	0.19	0.09	0.20	0.09	0.19
March	0.10	0.18	0.08	0.22	0.10	0.19
April	0.10	0.22	0.10	0.19	0.06	0.19
May	0.12	0.20	0.10	0.40	0.11	0.19
June	0.12	0.19	0.11	0.19	0.07	0.19
July	0.09	0.20	0.07	0.19	0.08	0.18
August	0.12	0.19	0.09	0.19	0.11	0.18
September	0.12	0.19	0.08	0.20	0.11	0.19
October	0.14	0.21	0.08	0.19	0.10	0.19
November	0.10	0.21	0.11	0.21	0.10	0.20
December	0.13	0.21	0.13	0.19	0.12	0.19
If Approval limits were exceeded provide date of occurrence and date when Department was notified:						
Action taken:						

Month	Site G – Medical Center Location: 81 Exhibition Street		Site H – Camp Aldershot Location: Lanzy Road		Site I – Scott Drive Sampling Station Location: Scott Drive	
	min NTU	max NTU	min NTU	max NTU	min NTU	Max NTU
January	0.10	0.19	0.08	0.20	0.12	0.21
February	0.09	0.20	0.08	0.19	0.12	0.20
March	0.09	0.21	0.08	0.19	0.10	0.19
April	0.11	0.19	0.10	0.20	0.11	0.21
May	0.07	0.20	0.09	0.21	0.10	0.20
June	0.08	0.21	0.07	0.19	0.11	0.20
July	0.12	0.20	0.06	0.19	0.10	0.20
August	0.09	0.20	0.10	0.20	0.07	0.20
September	0.11	0.20	0.10	0.20	0.12	0.21
October	0.14	0.19	0.11	0.23	0.12	0.23
November	0.14	0.19	0.11	0.21	0.11	0.20
December	0.14	0.20	0.12	0.21	0.12	0.22
If Approval limits were exceeded provide date of occurrence and date when Department was notified:						
Action taken:						

Month	Site J – Elizabeth Drive Sampling Station Location: Balsor Subdivision		Site K – Morris Crescent Sampling Station Location: Eaglecrest Subdivision			
	min NTU	max NTU	min NTU	max NTU	min NTU	Max NTU
January	0.09	0.20	0.10	0.20		
February	0.09	0.18	0.05	0.19		
March	0.06	0.20	0.09	0.21		
April	0.11	0.22	0.10	0.19		
May	0.11	0.22	0.10	0.19		
June	0.06	0.20	0.08	0.23		
July	0.05	0.19	0.06	0.19		
August	0.07	0.20	0.10	0.18		
September	0.10	0.20	0.11	0.19		
October	0.11	0.21	0.10	0.20		
November	0.09	0.19	0.12	0.19		
December	0.10	0.20	0.11	0.21		
If Approval limits were exceeded provide date of occurrence and date when Department was notified:						
Action taken:						

Table 26. Distribution System Lead, Copper, Date Sampled

Parameter	Unit	Mac	RDL
Lead	ug/L	5	0.5
Copper	ug/L	2000	2

Sample Address	Date Sampled	Total Lead	Total Copper
21 Oakdene Ave	2021-10-13	<0.5	18
29 Mitchell Ave	2021-10-14	<0.5	54
52 Grant Street	2021-10-13	<0.5	28
25 Caldwell Ave	2021-10-13	<0.5	51
18 Academy Street	2021-10-13	<0.5	87
11 Oakdene Terrace	2021-10-15	<0.5	26
40 Anderson Blvd	2021-10-13	<0.5	31
330 Cornwallis St.	2021-10-13	0.7	55
56 Parkview Road	2021-10-13	<0.5	141
259 Belcher Street	2021-10-14	<0.5	2
19 Condon Avenue	2021-10-15	1.5	51
45 Highland Avenue	2021-10-13	<0.5	66
875 West Main	2021-10-14	0.8	38
20 Grant Street	2021-10-14	0.6	34
6049 Hwy 12	2021-10-14	<0.5	16
90 Exhibition Street	2021-10-14	<0.5	8
32 Main Street	2021-10-14	<0.5	16
11 Kings Ride	2021-10-14	0.6	34
26 Coldbrook VPD	2021-10-14	<0.5	10
933 Park Street	2021-10-14	<0.5	19

95% Pass Rate

Table 27. Calcium, Manganese, Alkalinity, Conductivity

	Mitchell Avenue	Mitchell Avenue Raw	Prospect Avenue Reservoir Treated	Prospect Reservoir Raw	Chester Avenue Reservoir	Belcher Street Reservoir	Kentville Chrysler	Donald Hiltz Drive
May								
Total Iron	<50	<50	<50	<50	<50	<50	<50	<50
pH	7.59	7.74	7.69	6.94	7.68	7.71	7.56	7.54
Hardness	98.8	133	85.2	82.0	85.2	89.4	85.3	85.8
Langelier Index @ 20°C	-0.66	-0.36	-0.65	-1.66	-0.66	-0.61	-0.77	-0.79
Langelier Index @ 4°C	-0.98	-0.68	-0.97	-1.98	-0.98	-0.93	-1.09	-1.11
Saturation pH @ 20°C	8.25	8.10	8.34	8.60	8.34	8.32	8.33	8.33
Saturation pH @ 4°C	8.57	8.42	8.66	8.92	8.66	8.64	8.65	8.65
September								
Calcium	28.6	46.6	29.2	31.0	29.5	28.7	28.4	26.4
Manganese	<2	<2	<2	<2	<2	<2	<2	<2
Alkalinity as CaCO ₃	71	69	68	50	68	69	71	70
Electrical Conductivity	541	372	439	355	453	452	518	502
December								
Calcium	30100	45100	28100	26900	29500	28800	26400	27100
Manganese	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Alkalinity as CaCO ₃	72	72	68	39	69	70	71	71
Electrical Conductivity	570	366	481	467	480	480	556	557

Table 28. Storage tank chlorine residual

Month	Storage Tank Location Prospect Avenue ("Prospect Tank")			Storage Tank Location Kentville Business Park ("Kentville Chrysler")			
	Min mg/l	Max mg/l	Number of times residual was less than 0.2 mg/l	Min mg/l	Max mg/l	Number of times residual was less than 0.2 mg/l	
January	0.90	0.93	0	0.80	0.90	0	
February	0.89	0.93	0	0.82	0.87	0	
March	0.89	0.93	0	0.81	0.93	0	
April	0.88	0.93	0	0.79	0.93	0	
May	0.89	0.94	0	0.84	0.94	0	
June	0.89	0.94	0	0.88	0.94	0	
July	0.89	0.94	0	0.81	0.93	0	
August	0.89	0.93	0	0.85	0.93	0	
September	0.89	0.94	0	0.88	0.93	0	
October	0.75	0.94	0	0.81	0.94	0	
November	0.89	0.92	0	0.89	0.94	0	
December	0.77	0.93	0	0.89	0.93	0	
Action taken:							
Certified Lab:							

SOURCE WATER PROTECTION PLAN ANNUAL UPDATE CHECKLIST

Yearly review of the source water protection (SWP) plan is required. The review should consider questions including, but not limited, those listed below. Every five years, or whenever significant changes to the municipal water system or risks to its source occur, the municipal unit should consider revising the plan. Otherwise, updates may be added to the original source water protection plans in an appropriately identified appendix.

QUESTIONS TO CONSIDER IN ANNUAL UPDATE
How many source water committee meetings have been held in the past year? Have there been any changes to committee membership? The Sourcewater Protection Advisory Group met 4 times in 2021 (March, September, November and December). There has been changes to the committee membership.
Have there been any changes made to the committee terms of reference? There have been no changes made to the terms of reference for the Sourcewater Protection Advisory Group.
Have changes to the system infrastructure been made (e.g. wells constructed or decommissioned)? There have been no changes made to the system infrastructure.
Have any new risks to the watershed or aquifer area been identified? For example: have new land uses which could impact the source water commenced (or existing uses changed or ceased) within the watershed or aquifer area? have recreational uses of concern continued, declined or increased with the past year within the watershed or aquifer area? There have been no new risks identified for the protected aquifer area.
If new risks have been identified, what risk reduction strategies will be employed? n/a
Have any accidents/emergencies not considered in the contingency plan occurred within the watershed or aquifer area within the past year? There have been no accidents or emergencies in the aquifer area in 2021
Has source water monitoring (differs from regulatory compliance monitoring) been undertaken? Please describe the results. There has been no sourcewater monitoring in 2021.
Has your contingency plan been reviewed and contact information updated? The sourcewater protection plan contingency plan and contact information have been updated in 2018.

DESCRIPTION OF ANY EMERGENCY AND UPSET CONDITIONS AND CORRECTIVE ACTION

No emergencies and no corrective action required.

RECORD OF ANY VIOLATIONS OF APPROVAL AND CORRECTIVE ACTIONS TAKEN:

There have been no violations of approvals for operation or for withdrawal.

SUMMARY OF COMPLAINTS RECEIVED AND CORRECTIVE ACTIONS:

There have not been complaints and no corrective action was required.

AUTHORIZATION

I certify that information provided in this report is a complete and accurate representation of Water System operation.

Offences under the Environment Act:

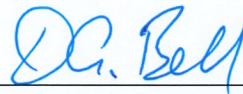
158 A person who

- (a) knowingly provides false or misleading information pursuant to a requirement under this Act to provide information;
- (b) provides false or misleading information pursuant to a requirement under this Act to provide information;
- (c) does not provide information as required pursuant to this Act;
- (d) hinders or obstructs an inspector or administrator who is exercising powers or carrying out duties, or attempting to do so, pursuant to this Act;
- (e) knowingly contravenes a term or condition of an approval, an environmental assessment approval, a temporary approval, a certificate of variance or a certificate of qualification;

Name of the person in overall direct responsible charge:

David Bell, Engineer of Public Works

Signature



APPENDIX A: Health-related Guidelines for Canadian Drinking Water Quality (Section 35 of Regulations). *Next sample event, 2023.*

Parameter	Units	Maximum Acceptable Concentration	September 27, 2018								
			Prospect Tank	Donald Hiltz Connector	Mitchell #1 D	Mitchell #2 C	Bona-vista	West End #1	West End #2	Mitchell East #1	Mitchell East #2
Bacteria: 1) Total Coliforms 2) <i>E.coli</i>	cfu	None per 100 mL	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Aldicarb	µg/L		<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Bendiocarb	µg/L		<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbofuran	µg/L	90	<5	<5	<5	<5	<5	<5	<5	<5	<5
Carbaryl	µg/L	90	<5	<5	<5	<5	<5	<5	<5	<5	<5
Diuron	µg/L	150	<10	<10	<10	<10	<10	<10	<10	<10	<10
Diquat	µg/L	70	<1	<1	<1	<1	<1	<1	<1	<1	<1
Paraquat	ug/L	10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Haloacetic Acids*	ug/L	80									
Chloroacetic Acid	ug/L	5	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
Bromoacetic Acid	ug/L	120	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dichloroacetic Acid	ug/L	0.9, 0.0003 AO	1.3	1.7	1.4	1.46	1.3	1.4	1.4	1.3	1.4
Dibromoacetic Acid	ug/L	100	<0.1	0.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroacetic Acid	ug/L	9	0.2	0.3	0.2	0.22	0.2	0.2	0.3	0.3	0.2
Bromochloroacetic Acid	%		<0.2	0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2-Bromobutanoic acid	µg/L		109	110	121	117	106	119	127	104	109
Bromoxynil	µg/L	5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dicamba	µg/L	120	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol	µg/L	0.9, 0.0003 AO	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	µg/L	100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diclofop-methyl	µg/L	9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinoseb	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPA	µg/L		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Pentachlorophenol	µg/L	0.06, 0.03 AO	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Picloram	µg/L	190	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6-Tetrachlorophenol	µg/L	100, 1 AO	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	µg/L	5, 2 AO	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Glyphosate	mg/L	280	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Aldrin	ug/L		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dieldrin	ug/L		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Aldrin + Dieldrin	ug/L		<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07
Methoxychlor	µg/L		<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Phorate	µg/L	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	µg/L	20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Terbufos	µg/L	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos	µg/L	90	<1	<1	<1	<1	<1	<1	<1	<1	<1

Diazinon	µg/L	20	<1	<1	<1	<1	<1	<1	<1	<1	<1
Malathion	µg/L	190	<5	<5	<5	<5	<5	<5	<5	<5	<5
Parathion	µg/L		<1	<1	<1	<1	<1	<1	<1	<1	<1
Azinphos-methyl	µg/L	20	<2	<2	<2	<2	<2	<2	<2	<2	<2
Benzo(a)pyrene	ug/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Trifluralin	µg/L	45	<1	<1	<1	<1	<1	<1	<1	<1	<1
Simazine	µg/L	10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Atrazine	µg/L	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Atrazine + N-dealkylated metabolites **	µg/L	5									
Metribuzin	µg/L	80	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Cyanazine	µg/L		<1	<1	<1	<1	<1	<1	<1	<1	<1
Metolachlor	µg/L	50	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
Benzene	ug/L	5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromodichloromethane	ug/L		<0.2	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoform	ug/L		<0.1	1.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon Tetrachloride	ug/L	2	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L		<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dibromochloromethane	ug/L		<0.1	2.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-Dichloroethane	ug/L	5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
1,2-Dichlorobenzene	ug/L	200, 3 AO	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	ug/L	5, 1 AO	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-Dichloroethylene	ug/L	14	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Ethylbenzene	ug/L	2.4 AO	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	ug/L	80, 30 AO	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethylene	ug/L	30	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	ug/L		<0.2	0.21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichloroethylene	ug/L	5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Vinyl Chloride	ug/L	2	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Xylenes (Total)	ug/L	300 AO	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylene Chloride (Dichloromethane)	ug/L	50	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Methyl-t-Butyl-Ether (MTBE)	ug/L	15 AO	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene-d8	%		115	85	94	95	97	96	78	76	94
4-Bromofluorobenzene	%		74	76	88	96	93	91	91	97	87
Total Aluminum	ug/L	100 OG AO	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Antimony	ug/L	6	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Arsenic	ug/L	10	<2	<2	<2	3	<2	<2	<2	<2	<2
Total Barium	ug/L	1000	31	36	46	14	12	32	32	36	23
Total Boron	ug/L	5000	12	14	14	8	7	9	11	14	8
Total Cadmium	ug/L	5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total Chromium	ug/L	50	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Copper	ug/L	1000 AO	2	22	3	<2	3	5	3	3	3

Total Iron	ug/L	300 AO	<50	<50	63	<50	<50	<50	<50	<50	<50
Total Lead	ug/L	10	<0.5	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Manganese	ug/L	50 AO	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Selenium	ug/L	10	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Uranium	ug/L	20	0.4	<0.1	<0.1	1.0	1.0	<0.1	<0.1	<0.1	0.1
Total Zinc	ug/L	5000 AO	14	<5	6	<5	<5	<5	<5	5	<5
Total Sodium	mg/L	200 AO	53.1	82.8	93.9	5.4	3.9	34.1	38.5	60.1	28.5
Mercury	ug/L	1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
pH		6.5-8.5 AO	7.98	8.02	6.78	8.04	8.04	7.55	7.54	6.99	7.57
Turbidity	NTU	0.1	1	0.7	1.3	0.9	0.5	0.5	1.7	0.4	0.8
True Color	TCU	15 AO	5	5	5	<5	<5	11	<5	5	<5
Chloride	mg/L	250 AO	68	96	152	45	22	57	63	89	58
Fluoride	mg/L	1.5	0.57	0.48	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
Nitrate as N	mg/L	10	0.89	0.94	1.08	0.29	0.84	0.85	0.94	0.92	0.92
Sulphate	mg/L	500 AO	9	13	18	9	4	8	9	11	8
Sulphide	mg/L	0.05 AO	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Free Cyanide	mg/L	0.2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Total Dissolved Solids	mg/L	500 AO	280	220	380	220	160	200	240	280	240
Bromate	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chlorate	mg/L	1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chlorite	mg/L	1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloramines - Total	mg/L	3.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Radionuclides - Gross Alpha	Bq/L	0.5	<0.12	<0.16	<0.16	<0.10	0.12	<0.10	<0.10	<0.12	<0.10
Radionuclides - Gross Beta	Bq/L	1.0	0.17	0.10	0.17	0.07	0.08	0.06	<0.06	0.08	<0.06
Nitriloacetic Acid (NTA)	mg/L	0.4	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Microcystin - LR	ug/L	1.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
N-Nitrosodimethylamine (NDMA)	ug/L	0.04	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008

* Total Haloacetic Acids were sampled at Kentville Chrysler and Belcher Street and both samples had <4.0 ug/L

** Atrazine + N-dealkylated metabolites is a parameter that is not part of the pesticide suite analysis package and was not sampled.

PART 3 - WATER SAMPLE RESULTS

WATER
COMMISSION
Kentville

CLIENT NAME: TOWN OF KENTVILLE**354 MAIN ST.****KENTVILLE, NS B4N1K6****(902) 679-2521****ATTENTION TO: Dave Bell****PROJECT: Quarterly****AGAT WORK ORDER: 21X847367****TRACE ORGANICS REVIEWED BY: Amy Hunter, Trace Organics Supervisor, B.Sc.****WATER ANALYSIS REVIEWED BY: Ashley Dussault, Report Writer****DATE REPORTED: Jan 10, 2022****PAGES (INCLUDING COVER): 10****VERSION*: 1**

Should you require any information regarding this analysis please contact your client services representative at (902) 468-8718

Notes*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 after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- 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.



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 21X847367

PROJECT: Quarterly

11 Morris Drive, Unit 122
Dartmouth, Nova Scotia
CANADA B3B 1M2
TEL (902)468-8718
FAX (902)468-8924
<http://www.agatlabs.com>

CLIENT NAME: TOWN OF KENTVILLE

SAMPLING SITE:

ATTENTION TO: Dave Bell

SAMPLED BY:

Haloacetic Acids (water)

DATE RECEIVED: 2021-12-20

DATE REPORTED: 2022-01-10

				Belcher Tank	Kentville
SAMPLE DESCRIPTION:				Water	Chrysler
SAMPLE TYPE:				Water	Water
DATE SAMPLED:				2021-12-20 09:35	2021-12-20 11:40
Parameter	Unit	G / S	RDL	3371391	3371410
Chloroacetic Acid	ug/L		0.5	<0.5	<0.5
Bromoacetic Acid	ug/L		0.5	<0.5	<0.5
Dichloroacetic Acid	ug/L		0.5	0.7	0.9
Trichloroacetic Acid	ug/L		0.5	<0.5	<0.5
Bromochloroacetic Acid	ug/L		0.5	<0.5	<0.5
Dibromoacetic Acid	ug/L		0.5	0.9	1.1
Total Haloacetic Acids	ug/L		4.0	<4.0	<4.0
HAA5	ug/L		4.0	<4.0	<4.0
Surrogate	Unit	Acceptable Limits			
2-Bromobutanoic acid	%	70-130		118	109

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

3371391-3371410 HAA5 is a calculated parameter. The calculated parameter is non-accredited. The component parameters of the calculation are accredited.

Analysis performed at AGAT Halifax (unless marked by *)

Certified By:



AGAT Laboratories

Certificate of Analysis

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PROJECT: Quarterly

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Dartmouth, Nova Scotia
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TEL (902)468-8718
FAX (902)468-8924
<http://www.agatlabs.com>

CLIENT NAME: TOWN OF KENTVILLE

SAMPLING SITE:

ATTENTION TO: Dave Bell

SAMPLED BY:

Trihalomethanes in Water

DATE RECEIVED: 2021-12-20

DATE REPORTED: 2022-01-10

		SAMPLE DESCRIPTION:		Belcher Tank	Colbrook
		SAMPLE TYPE:		Water	Village Park
		DATE SAMPLED:		2021-12-20 09:35	2021-12-20 11:10
Parameter	Unit	G / S	RDL	3371391	3371403
Chloroform	ug/L		1	<1	1
Bromodichloromethane	ug/L		1	<1	4
Dibromochloromethane	ug/L		1	1	6
Bromoform	ug/L		1	<1	4
Total Trihalomethanes	ug/L		1	1	15
Surrogate	Unit	Acceptable Limits			
Toluene-d8	%	60-140		90	90
4-Bromofluorobenzene	%	60-140		101	101

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

Analysis performed at AGAT Halifax (unless marked by *)

Certified By:



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 21X847367

PROJECT: Quarterly

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FAX (902)468-8924
<http://www.agatlabs.com>

CLIENT NAME: TOWN OF KENTVILLE

SAMPLING SITE:

ATTENTION TO: Dave Bell

SAMPLED BY:

AGAT Halifax - Total Copper + Lead

DATE RECEIVED: 2021-12-20

DATE REPORTED: 2022-01-10

		SAMPLE DESCRIPTION:		West End #1	East End #2
		SAMPLE TYPE:		Water	Water
		DATE SAMPLED:		2021-12-20 10:40	2021-12-20 10:50
Parameter	Unit	G / S	RDL	3371411	3371412
Total Copper	µg/L		0.8	1.4	1.8
Total Lead	µg/L		0.1	0.4	0.8

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

3371411-3371412 < - Values refer to Report Detection Limit.

Analysis performed at AGAT Calgary (unless marked by *)

Certified By:



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 21X847367

PROJECT: Quarterly

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Dartmouth, Nova Scotia
CANADA B3B 1M2
TEL (902)468-8718
FAX (902)468-8924
<http://www.agatlabs.com>

CLIENT NAME: TOWN OF KENTVILLE

SAMPLING SITE:

ATTENTION TO: Dave Bell

SAMPLED BY:

Alkalinity, Conductivity

DATE RECEIVED: 2021-12-20

DATE REPORTED: 2022-01-10

				Prospect		Chester Tank		Belcher Tank		Mitchell Raw		Mitchell Treated		Kentville	
SAMPLE DESCRIPTION:				Prospect Raw	Treated	Water	Water	Water	Water	Water	Water	Water	Water	Chrysler	Donald Hiltz Dr
SAMPLE TYPE:				Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
DATE SAMPLED:				2021-12-20 08:35	2021-12-20 08:30	2021-12-20 09:05	2021-12-20 09:35	2021-12-20 10:30	2021-12-20 10:25	2021-12-20 11:40	2021-12-20 12:00	2021-12-20 11:40	2021-12-20 12:00	2021-12-20 11:40	2021-12-20 12:00
Parameter	Unit	G / S	RDL	3371371	3371385	3371386	3371391	3371400	3371401	3371410	3371413	3371410	3371413	3371410	3371413
Alkalinity as CaCO ₃	mg/L		5	39	68	69	70	72	72	71	71	71	71	71	71
Electrical Conductivity	umho/cm		1	467	481	480	480	366	570	556	557	556	557	556	557

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

Analysis performed at AGAT Halifax (unless marked by *)

Certified By:



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 21X847367

PROJECT: Quarterly

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Dartmouth, Nova Scotia
CANADA B3B 1M2
TEL (902)468-8718
FAX (902)468-8924
<http://www.agatlabs.com>

CLIENT NAME: TOWN OF KENTVILLE

SAMPLING SITE:

ATTENTION TO: Dave Bell

SAMPLED BY:

Metals - Total Manganese and Calcuim in Water (ug/L) (Halifax)

DATE RECEIVED: 2021-12-20

DATE REPORTED: 2022-01-10

				Prospect						Kentville	
SAMPLE DESCRIPTION:				Prospect Raw	Treated	Chester Tank	Belcher Tank	Mitchell Raw	Mitchell Treated	Chrysler	Donald Hiltz Dr
SAMPLE TYPE:				Water	Water	Water	Water	Water	Water	Water	Water
DATE SAMPLED:				2021-12-20 08:35	2021-12-20 08:30	2021-12-20 09:05	2021-12-20 09:35	2021-12-20 10:30	2021-12-20 10:25	2021-12-20 11:40	2021-12-20 12:00
Parameter	Unit	G / S	RDL	3371371	3371385	3371386	3371391	3371400	3371401	3371410	3371413
Total Manganese	µg/L		2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Total Calcium	µg/L		316	26900	28100	29500	28800	45100	30100	26400	27100

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

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Ashley Dussault

Quality Assurance

CLIENT NAME: TOWN OF KENTVILLE

PROJECT: Quarterly

SAMPLING SITE:

AGAT WORK ORDER: 21X847367

ATTENTION TO: Dave Bell

SAMPLED BY:

Trace Organics Analysis

RPT Date: Jan 10, 2022			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

Haloacetic Acids (water)

Chloroacetic Acid	1	3371391	< 0.5	< 0.5	NA	< 0.5	107%	70%	130%	81%	60%	130%	75%	60%	130%
Bromoacetic Acid	1	3371391	< 0.5	< 0.5	NA	< 0.5	94%	70%	130%	80%	60%	130%	84%	60%	130%
Dichloroacetic Acid	1	3371391	0.7	0.8	NA	< 0.5	92%	70%	130%	102%	60%	130%	99%	60%	130%
Trichloroacetic Acid	1	3371391	< 0.5	< 0.5	NA	< 0.5	85%	70%	130%	73%	60%	130%	85%	60%	130%
Bromochloroacetic Acid	1	3371391	< 0.5	< 0.5	NA	< 0.5	82%	70%	130%	115%	60%	130%	120%	60%	130%
Dibromoacetic Acid	1	3371391	0.9	0.8	NA	< 0.5	85%	70%	130%	117%	60%	130%	124%	60%	130%

Comments: If Matrix spike value is NA, the spiked analyte concentration was lower than that of the matrix contribution.

If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Trihalomethanes in Water

Chloroform	1	3371091	23	23	0.0%	< 1	110%	50%	140%	118%	60%	130%	109%	50%	140%
Bromodichloromethane	1	3371091	23	23	0.0%	< 1	119%	50%	140%	124%	60%	130%	112%	50%	140%
Dibromochloromethane	1	3371091	15	15	0.0%	< 1	109%	50%	140%	112%	60%	130%	101%	50%	140%
Bromoform	1	3371091	< 1	< 1	NA	< 1	104%	50%	140%	110%	60%	130%	98%	50%	140%

Comments: If Matrix spike value is NA, the spiked analyte concentration was lower than that of the matrix contribution. Matrix spike performed on a different sample than the duplicate.

If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Certified By:



Quality Assurance

CLIENT NAME: TOWN OF KENTVILLE

PROJECT: Quarterly

SAMPLING SITE:

AGAT WORK ORDER: 21X847367

ATTENTION TO: Dave Bell

SAMPLED BY:

Water Analysis

RPT Date: Jan 10, 2022			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

Alkalinity, Conductivity

Alkalinity as CaCO ₃	3371371	3371371	39	37	6.1%	< 5	92%	80%	120%	NA			NA		
Electrical Conductivity	3371371	3371371	467	470	0.7%	< 1	109%	90%	110%	NA			NA		

Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Metals - Total Manganese and Calcium in Water (ug/L) (Halifax)

Total Manganese	3357530		3.7	4.4	NA	< 2.0	99%	70%	130%	105%	80%	120%	104%	70%	130%
Total Calcium	3371413	3371413	27100	27400	1.1%	< 100	95%	70%	130%	101%	80%	120%	97%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

AGAT Halifax - Total Copper + Lead

Total Copper	3281693		0.0565	0.0563	0.4%	< 0.8	105%	70%	130%	102%	80%	120%	104%	70%	130%
Total Lead	3281693		0.0003	0.0003	NA	< 0.1	89%	70%	130%	89%	80%	120%	88%	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.

Certified By:




Method Summary

CLIENT NAME: TOWN OF KENTVILLE

AGAT WORK ORDER: 21X847367

PROJECT: Quarterly

ATTENTION TO: Dave Bell

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Chloroacetic Acid	ORG-120-5110	EPA 552.3	GC/ECD
Bromoacetic Acid	ORG-120-5110	EPA 552.3	GC/ECD
Dichloroacetic Acid	ORG-120-5110	EPA 552.3	GC/ECD
Trichloroacetic Acid	ORG-120-5110	EPA 552.3	GC/ECD
Bromochloroacetic Acid	ORG-120-5110	EPA 552.3	GC/ECD
Dibromoacetic Acid	ORG-120-5110	EPA 552.3	GC/ECD
2-Bromobutanoic acid	ORG-120-5110	EPA 552.3	GC/ECD
Total Haloacetic Acids	ORG-120-5110	EPA 552.3	GC/ECD
HAA5	ORG-120-5110	EPA 552.3	GC/ECD
Chloroform	VOL-120-5001	EPA SW-846 5030B/8260B	GC/MS
Bromodichloromethane	VOL-120-5001	EPA SW846 5230B/8260	GC/MS
Dibromochloromethane	VOL-120-5001	EPA SW846 5230B/8260	GC/MS
Bromoform	VOL-120-5001	EPA SW846 5230B/8260	GC/MS
Total Trihalomethanes	VOL-120-5001	EPA SW846 5230/8260	GC/MS
Toluene-d8	VOL-120-5001	EPA SW846 5030B/8260B	GC/MS
4-Bromofluorobenzene	VOL-120-5001	EPA SW846 5030B/8260B	GC/MS
Water Analysis			
Total Copper	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
Alkalinity as CaCO ₃	INOR-121-6001	SM 2320 B	
Electrical Conductivity	INOR-121-6001	SM 2510 B	PC TITRATE
Total Manganese	MET-93-6103	modified from EPA 200.8, 3005A, 3010A & 6020B	ICP-MS
Total Calcium	MET-93-6105	modified from EPA 6010D	ICP/OES



AGAT

Laboratories

Unit 122 • 11 Morris Drive
Dartmouth, NS
B3B 1M2

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Laboratory Use Only

Arrival Condition: ☐ Good ☐ Poor (see notes)

Arrival Temperature: 12.1, 8.8, 9.6

Hold Time: _____

AGAT Job Number: 21x847367

Notes: _____

Turnaround Time Required (TAT) 41 DEC 20 2:14 PM

Regular TAT ☒ 5 to 7 working days

Rush TAT ☐ Same day ☐ 1 day

☐ 2 days ☐ 3 days

Date Required: _____

Drinking Water Sample: ☐ Yes ☐ No

Salt Water Sample ☐ Yes ☐ No

Reg. No.: _____

Chain of Custody Record

P: 902.468.8718 • F: 902.468.8924

Report Information

Company: Town of Kentville

Contact: David BVell

Address: 354 Main Street

Kentville, NS B4N 1K6

Phone: 902-679-2521

Fax: _____

Client Project #: Quarterly

AGAT Quotation: _____

Please Note: If quotation number is not provided client will be billed full price for analysis.

Report Information (Please print):

1. Name: David Bell

Email: dbell@kentville.ca

2. Name: _____

Email: cmacdonald@kentville.ca

Report Format

☐ Single Sample per page

☐ Multiple Samples per page

☐ Excel Format Included

☐ Export

Regulatory Requirements (Check):

☐ List Guidelines on Report ☐ Do not list Guidelines on Report

☐ PIRI

☐ Tier 1 ☐ Res

☐ Pot

☐ Coarse

☐ Tier 2 ☐ Com

☐ N/Pot

☐ Fine

☐ Gas ☐ Fuel ☐ Lube

☐ CCME

☐ CDWQ

☐ Industrial

☐ NSEQS-Cont Sites

☐ Commercial

☐ HRM 101

☐ Res/Park

☐ Storm Water

☐ Agricultural

☐ Waste Water

☐ FWAL

☐ Sediment

☐ Other _____

Invoice To

Same Yes ☐ / No ☐

Company: _____

Contact: _____

Address: cbrown@kentville.ca

Phone: _____

Fax: _____

PO/Credit Card#: _____

Sample Identification	Date/Time Sampled	Sample Matrix	# Containers	Comments - Site/Sample Info. Sample Containment	Field Filtered/Preserved	Standard Water Analysis	Metals: <input type="checkbox"/> Total <input type="checkbox"/> Diss <input type="checkbox"/> Available	Mercury	<input type="checkbox"/> BOD <input type="checkbox"/> CBOD	pH	<input type="checkbox"/> TSS <input type="checkbox"/> TDS <input type="checkbox"/> VSS	TKN	Total Phosphorus	Phenols	Tier 1: TPH/BTEX (PIRI) <input type="checkbox"/> low level	Tier 2: TPH/BTEX Fractionation	CCME-CWS TPH/BTEX	VOC	THM	HAA	PAH	PCB	TC + EC <input type="checkbox"/> P/A <input type="checkbox"/> MPN <input type="checkbox"/> MF	<input type="checkbox"/> HPC <input type="checkbox"/> Pseudomonas	Fecal Coliform <input type="checkbox"/> MPN <input type="checkbox"/> MF	Other: Alkalinity, Calcium, Man. Cond	Other: Lead	Hazardous (Y/N)
Prospect Raw	2021/12/20 8:35	Water	2																							<input checked="" type="checkbox"/>		
Prospect Treated	2021/12/20 8:30	Water	2																							<input checked="" type="checkbox"/>		
Chester Tank	2021/12/20 9:05	Water	2																							<input checked="" type="checkbox"/>		
Belcher Tank	2021/12/20 9:35	Water	2,3,3																	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		
Mitchell Raw	2021/12/20 10:30	Water	2																							<input checked="" type="checkbox"/>		
Mitchel Treated	2021/12/20 10:25	Water	2																							<input checked="" type="checkbox"/>		
Colbrook Village Park	2021/12/20 11:10	Water	3																	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>		
Quality Concrete	2021/12/20 11:25	Water	2																							<input checked="" type="checkbox"/>		
Kentville Chrysler	2021/12/20 11:40	Water	2,3																		<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		
West End #1	2021/12/20 10:40	Water	1																								<input checked="" type="checkbox"/>	
East End #2	2021/12/20 10:50	Water	1																								<input checked="" type="checkbox"/>	

Samples Relinquished By (Print Name):

Jim Patena

Date/Time

Dec 20/21 2:12

Samples Received By (Print Name):

C. Brown

Date/Time

Pink Copy - Client

Yellow Copy - AGAT

White Copy - AGAT

Page 1 of 1

No:

CLIENT NAME: TOWN OF KENTVILLE**354 MAIN ST.****KENTVILLE, NS B4N1K6****(902) 679-2521****ATTENTION TO: Dave Bell****PROJECT:****AGAT WORK ORDER: 21X825157****WATER ANALYSIS REVIEWED BY: Ashley Dussault, Report Writer****DATE REPORTED: Nov 22, 2021****PAGES (INCLUDING COVER): 13****VERSION*: 1**

Should you require any information regarding this analysis please contact your client services representative at (902) 468-8718

Notes*Disclaimer:**

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- 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.
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- All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 21X825157

PROJECT:

11 Morris Drive, Unit 122
Dartmouth, Nova Scotia
CANADA B3B 1M2
TEL (902)468-8718
FAX (902)468-8924
<http://www.agatlabs.com>

CLIENT NAME: TOWN OF KENTVILLE

ATTENTION TO: Dave Bell

SAMPLING SITE:

SAMPLED BY:

Standard Water Analysis + Total Metals

DATE RECEIVED: 2021-11-03

DATE REPORTED: 2021-11-22

SAMPLE DESCRIPTION:				1- Prospect	2- D.E. Hiltz			3- Mitchell Well	4- Mitchell Well	5-Bonavista	6-West End Well
SAMPLE TYPE:				Reservoir	Connector Road			# 1	# 2	Well	# 1
DATE SAMPLED:				2021-11-03	2021-11-03			2021-11-03	2021-11-03	2021-11-03	2021-11-03
				08:10	09:55			10:20	10:10	10:55	10:10
Parameter	Unit	G / S	RDL	3163986	3164045	RDL	3164046	RDL	3164047	3164048	3164049
pH		7.0-10.5		7.90	7.95		7.15		7.97	7.93	7.68
Reactive Silica as SiO ₂	mg/L		0.5	11.9	10.8	0.5	9.9	0.5	11.6	10.8	11.5
Chloride	mg/L	250 AO	1	76	102	2	145	1	46	31	77
Fluoride	mg/L	1.5	0.12	0.72	0.61	0.12	<0.12	0.12	<0.12	<0.12	<0.12
Sulphate	mg/L	500 AO	2	12	17	2	19	2	12	6	11
Alkalinity	mg/L		5	67	72	5	28	5	71	62	47
True Color	TCU	15 AO	5.00	<5.00	<5.00	5.00	<5.00	5.00	<5.00	<5.00	<5.00
Turbidity	NTU	1.0	0.5	<0.5	0.5	0.5	<0.5	0.5	<0.5	1.0	<0.5
Electrical Conductivity	umho/cm		1	478	589	1	625	1	361	269	428
Nitrate + Nitrite as N	mg/L		0.05	1.02	1.12	0.05	1.09	0.05	1.17	0.38	0.96
Nitrate as N	mg/L	10	0.05	1.02	1.12	0.05	1.09	0.05	1.17	0.38	0.96
Nitrite as N	mg/L	1.0	0.05	<0.05	<0.05	0.05	<0.05	0.05	<0.05	<0.05	<0.05
Ammonia as N	mg/L		0.03	<0.03	<0.03	0.03	<0.03	0.03	<0.03	<0.03	<0.03
Ortho-Phosphate as P	mg/L		0.01	0.04	0.03	0.01	0.05	0.01	<0.01	<0.01	0.04
Total Sodium	mg/L	200 AO	0.1	49.1	70.4	0.1	74.4	0.1	7.3	4.7	36.9
Total Potassium	mg/L		0.1	1.9	2.4	0.1	2.8	0.1	2.0	2.0	1.8
Total Calcium	mg/L		0.1	26.9	24.2	0.1	21.6	0.1	42.0	31.3	27.0
Total Magnesium	mg/L		0.1	4.0	4.0	0.1	3.5	0.1	5.3	3.6	3.9
Bicarb. Alkalinity (as CaCO ₃)	mg/L		5	67	72	5	28	5	71	62	47
Carb. Alkalinity (as CaCO ₃)	mg/L		10	<10	<10	10	<10	10	<10	<10	<10
Hydroxide	mg/L		5	<5	<5	5	<5	5	<5	<5	<5
Calculated TDS	mg/L	500 AO	1	215	268	1	288	1	162	117	190
Hardness	mg/L			83.6	76.9		68.3		127	93.0	83.5
Langelier Index (@20C)	NA			-0.46	-0.44		-1.70		-0.16	-0.38	-0.83
Langelier Index (@ 4C)	NA			-0.78	-0.76		-2.02		-0.48	-0.70	-1.15
Saturation pH (@ 20C)	NA			8.36	8.39		8.85		8.13	8.31	8.51
Saturation pH (@ 4C)	NA			8.68	8.71		9.17		8.45	8.63	8.83
Anion Sum	me/L			3.81	4.75		5.12		3.05	2.27	3.41

Certified By:

Ashley Dussault



AGAT Laboratories

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CLIENT NAME: TOWN OF KENTVILLE

ATTENTION TO: Dave Bell

SAMPLING SITE:

SAMPLED BY:

Standard Water Analysis + Total Metals

DATE RECEIVED: 2021-11-03

DATE REPORTED: 2021-11-22

SAMPLE DESCRIPTION:				1- Prospect	2- D.E. Hiltz			3- Mitchell Well	4- Mitchell Well	5-Bonavista	6-West End Well
SAMPLE TYPE:				Reservoir	Connector Road			# 1	# 2	Well	# 1
DATE SAMPLED:				2021-11-03	2021-11-03			2021-11-03	2021-11-03	2021-11-03	2021-11-03
				08:10	09:55			10:20	10:10	10:55	10:10
Parameter	Unit	G / S	RDL	3163986	3164045	RDL	3164046	RDL	3164047	3164048	3164049
Cation sum	me/L			3.86	4.66		4.68		2.90	2.12	3.32
% Difference/ Ion Balance	%			0.7	1.0		4.6		2.5	3.4	1.3
Total Aluminum	ug/L	2900, 100	5	<5	<5	5	<5	5	<5	<5	<5
Total Antimony	ug/L	6	2	<2	<2	2	<2	2	<2	<2	<2
Total Arsenic	ug/L	10	2	<2	<2	2	<2	2	3	<2	<2
Total Barium	ug/L	2000	5	23	27	5	40	5	15	12	29
Total Beryllium	ug/L		2	<2	<2	2	<2	2	<2	<2	<2
Total Bismuth	ug/L		2	<2	<2	2	<2	2	<2	<2	<2
Total Boron	ug/L	5000	5	9	11	5	14	5	7	<5	9
Total Cadmium	ug/L	7	0.09	<0.09	<0.09	0.09	<0.09	0.09	<0.09	<0.09	<0.09
Total Chromium	ug/L	50	1	<1	<1	1	<1	1	<1	<1	<1
Total Cobalt	ug/L		1	<1	<1	1	<1	1	<1	<1	<1
Total Copper	ug/L	2000, 1000	1	7	4	1	1	1	<1	1	8
Total Iron	ug/L	300 AO	50	<50	<50	50	53	50	<50	<50	76
Total Lead	ug/L	5	0.5	<0.5	<0.5	0.5	<0.5	0.5	<0.5	<0.5	3.6
Total Manganese	ug/L	120, 20 AO	2	<2	<2	2	<2	2	<2	<2	<2
Total Molybdenum	ug/L		2	<2	<2	2	<2	2	<2	<2	<2
Total Nickel	ug/L		2	<2	<2	2	<2	2	2	<2	<2
Total Phosphorous	mg/L		0.02	0.05	0.06	0.02	0.09	0.02	0.03	0.03	0.07
Total Selenium	ug/L	50	1	<1	<1	1	<1	1	<1	<1	<1
Total Silver	ug/L		0.1	<0.1	<0.1	0.1	<0.1	0.1	<0.1	<0.1	<0.1
Total Strontium	ug/L	7000	5	120	182	5	93	5	313	253	67
Total Thallium	ug/L		0.1	<0.1	<0.1	0.1	<0.1	0.1	<0.1	<0.1	<0.1
Total Tin	ug/L		2	<2	<2	2	<2	2	<2	<2	<2
Total Titanium	ug/L		2	<2	<2	2	<2	2	<2	<2	<2
Total Uranium	ug/L	20	0.2	<0.2	0.4	0.2	<0.2	0.2	1.2	1.1	<0.2
Total Vanadium	ug/L		2	<2	<2	2	<2	2	<2	<2	<2
Total Zinc	ug/L	5000 AO	5	<5	14	5	<5	5	<5	<5	10

Certified By:

Ashley Dussault



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CLIENT NAME: TOWN OF KENTVILLE

ATTENTION TO: Dave Bell

SAMPLING SITE:

SAMPLED BY:

Standard Water Analysis + Total Metals

DATE RECEIVED: 2021-11-03

DATE REPORTED: 2021-11-22

				7- West End Well		8- East End Well		9- East End Well	
SAMPLE DESCRIPTION:				# 2		#1		# 2	
SAMPLE TYPE:				Water		Water		Water	
DATE SAMPLED:				2021-11-03 10:35		2021-11-03 11:20		2021-11-03 11:05	
Parameter	Unit	G / S	RDL	3164050	RDL	3164051	RDL	3164052	
pH		7.0-10.5		7.66		7.32		7.69	
Reactive Silica as SiO ₂	mg/L		0.5	12.5	0.5	10.6	0.5	11.6	
Chloride	mg/L	250 AO	1	59	2	133	1	79	
Fluoride	mg/L	1.5	0.12	0.12	0.12	<0.12	0.12	<0.12	
Sulphate	mg/L	500 AO	2	11	2	16	2	13	
Alkalinity	mg/L		5	40	5	32	5	55	
True Color	TCU	15 AO	5.00	<5.00	5.00	<5.00	5.00	<5.00	
Turbidity	NTU	1.0	0.5	0.8	0.5	0.9	0.5	1.1	
Electrical Conductivity	umho/cm		1	342	1	592	1	448	
Nitrate + Nitrite as N	mg/L		0.05	1.06	0.05	1.14	0.05	1.20	
Nitrate as N	mg/L	10	0.05	1.06	0.05	1.14	0.05	1.20	
Nitrite as N	mg/L	1.0	0.05	<0.05	0.05	<0.05	0.05	<0.05	
Ammonia as N	mg/L		0.03	<0.03	0.03	<0.03	0.03	<0.03	
Ortho-Phosphate as P	mg/L		0.01	0.05	0.01	0.06	0.01	0.04	
Total Sodium	mg/L	200 AO	0.1	30.0	0.1	60.9	0.1	28.8	
Total Potassium	mg/L		0.1	1.9	0.1	2.8	0.1	2.1	
Total Calcium	mg/L		0.1	19.8	0.1	28.3	0.1	35.3	
Total Magnesium	mg/L		0.1	4.0	0.1	4.6	0.1	5.3	
Bicarb. Alkalinity (as CaCO ₃)	mg/L		5	40	5	32	5	55	
Carb. Alkalinity (as CaCO ₃)	mg/L		10	<10	10	<10	10	<10	
Hydroxide	mg/L		5	<5	5	<5	5	<5	
Calculated TDS	mg/L	500 AO	1	154	1	270	1	202	
Hardness	mg/L			65.9		89.6		110	
Langelier Index (@ 20C)	NA			-1.05		-1.35		-0.64	
Langelier Index (@ 4C)	NA			-1.37		-1.67		-0.96	
Saturation pH (@ 20C)	NA			8.71		8.67		8.33	
Saturation pH (@ 4C)	NA			9.03		8.99		8.65	
Anion Sum	me/L			2.77		4.81		3.68	

Certified By:

Ashley Dussault



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CLIENT NAME: TOWN OF KENTVILLE

ATTENTION TO: Dave Bell

SAMPLING SITE:

SAMPLED BY:

Standard Water Analysis + Total Metals

DATE RECEIVED: 2021-11-03

DATE REPORTED: 2021-11-22

Parameter	Unit	7-West End Well				8- East End Well		9- East End Well	
		SAMPLE DESCRIPTION: # 2				#1		# 2	
		SAMPLE TYPE: Water				Water		Water	
		DATE SAMPLED: 2021-11-03 10:35				2021-11-03 11:20		2021-11-03 11:05	
		G / S	RDL	3164050	RDL	3164051	RDL	3164052	
Cation sum	me/L			2.67		4.51		3.51	
% Difference/ Ion Balance	%			1.8		3.2		2.4	
Total Aluminum	ug/L	2900, 100	5	<5	5	<5	5	<5	
Total Antimony	ug/L	6	2	<2	2	<2	2	<2	
Total Arsenic	ug/L	10	2	<2	2	<2	2	<2	
Total Barium	ug/L	2000	5	27	5	39	5	23	
Total Beryllium	ug/L		2	<2	2	<2	2	<2	
Total Bismuth	ug/L		2	<2	2	<2	2	<2	
Total Boron	ug/L	5000	5	8	5	13	5	7	
Total Cadmium	ug/L	7	0.09	<0.09	0.09	<0.09	0.09	<0.09	
Total Chromium	ug/L	50	1	<1	1	<1	1	<1	
Total Cobalt	ug/L		1	<1	1	<1	1	<1	
Total Copper	ug/L	2000, 1000	1	2	1	4	1	22	
Total Iron	ug/L	300 AO	50	<50	50	<50	50	96	
Total Lead	ug/L	5	0.5	<0.5	0.5	<0.5	0.5	8.7	
Total Manganese	ug/L	120, 20 AO	2	<2	2	<2	2	<2	
Total Molybdenum	ug/L		2	<2	2	<2	2	<2	
Total Nickel	ug/L		2	<2	2	<2	2	2	
Total Phosphorous	mg/L		0.02	0.07	0.02	0.09	0.02	0.08	
Total Selenium	ug/L	50	1	<1	1	<1	1	<1	
Total Silver	ug/L		0.1	<0.1	0.1	<0.1	0.1	<0.1	
Total Strontium	ug/L	7000	5	79	5	119	5	169	
Total Thallium	ug/L		0.1	<0.1	0.1	<0.1	0.1	<0.1	
Total Tin	ug/L		2	<2	2	<2	2	<2	
Total Titanium	ug/L		2	<2	2	<2	2	<2	
Total Uranium	ug/L	20	0.2	<0.2	0.2	<0.2	0.2	<0.2	
Total Vanadium	ug/L		2	<2	2	<2	2	<2	
Total Zinc	ug/L	5000 AO	5	<5	5	12	5	68	

Certified By:

Ashley Dussault



AGAT Laboratories

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AGAT WORK ORDER: 21X825157

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CLIENT NAME: TOWN OF KENTVILLE

ATTENTION TO: Dave Bell

SAMPLING SITE:

SAMPLED BY:

Standard Water Analysis + Total Metals

DATE RECEIVED: 2021-11-03

DATE REPORTED: 2021-11-22

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Canadian Drinking Water Quality - updated 2021-03
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.
3163986-3164052 % Difference / Ion Balance, Hardness, Langelier Index, Nitrate + Nitrite, Hydroxide and Saturation pH are calculated parameters. The calculated parameters are non-accredited. The component parameters of the calculations are accredited.

Analysis performed at AGAT Halifax (unless marked by *)

Certified By:



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 21X825157

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CLIENT NAME: TOWN OF KENTVILLE

ATTENTION TO: Dave Bell

SAMPLING SITE:

SAMPLED BY:

Water Analysis - TOC

DATE RECEIVED: 2021-11-03

DATE REPORTED: 2021-11-22

				1- Prospect	2- D.E. Hiltz	3- Mitchell Well	4- Mitchell Well	5-Bonavista	6-West End Well	7-West End Well	8- East End Well
				Reservoir	Connector Road	# 1	# 2	Well	# 1	# 2	#1
				Water	Water	Water	Water	Water	Water	Water	Water
				DATE SAMPLED:	DATE SAMPLED:	DATE SAMPLED:	DATE SAMPLED:	DATE SAMPLED:	DATE SAMPLED:	DATE SAMPLED:	DATE SAMPLED:
				2021-11-03	2021-11-03	2021-11-03	2021-11-03	2021-11-03	2021-11-03	2021-11-03	2021-11-03
				08:10	09:55	10:20	10:10	10:55	10:10	10:35	11:20
Parameter	Unit	G / S	RDL	3163986	3164045	3164046	3164047	3164048	3164049	3164050	3164051
Total Organic Carbon	mg/L		1	<1	<1	<1	<1	<1	<1	<1	<1
Reporting- W				11/18/2021							
				9- East End Well							
				# 2							
				Water							
				DATE SAMPLED:							
				2021-11-03							
				11:05							
Parameter	Unit	G / S	RDL	3164052							
Total Organic Carbon	mg/L		1	<1							

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

Analysis performed at AGAT Calgary (unless marked by *)

Certified By:



AGAT Laboratories

Exceedance Summary

AGAT WORK ORDER: 21X825157

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ATTENTION TO: Dave Bell

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
3164052	9- East End Well # 2	NS-CDWQ incl [AO]	Standard Water Analysis + Total Metals	Total Lead	ug/L	5	8.7
3164052	9- East End Well # 2	NS-CDWQ incl [AO]	Standard Water Analysis + Total Metals	Turbidity	NTU	1.0	1.1

Quality Assurance

CLIENT NAME: TOWN OF KENTVILLE

AGAT WORK ORDER: 21X825157

PROJECT:
ATTENTION TO: Dave Bell

SAMPLING SITE:
SAMPLED BY:

Water Analysis															
RPT Date: Nov 22, 2021			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

Standard Water Analysis + Total Metals

pH	3163986	3163986	7.90	7.92	0.3%	<	102%	80%	120%	NA			NA		
Reactive Silica as SiO ₂	3156658		10.4	10.0	3.5%	< 0.5	105%	80%	120%	99%	80%	120%	99%	80%	120%
Chloride	3163986	3163986	76	79	4.2%	< 1	91%	80%	120%	NA	80%	120%	NA	70%	130%
Fluoride	3163986	3163986	0.72	0.77	6.5%	< 0.12	107%	80%	120%	NA	80%	120%	89%	70%	130%
Sulphate	3163986	3163986	12	11	4.7%	< 2	109%	80%	120%	NA	80%	120%	84%	70%	130%
Alkalinity	3163986	3163986	67	68	0.4%	< 5	87%	80%	120%	NA			NA		
True Color	3156658		<5.00	<5.00	NA	< 5	99%	80%	120%	95%	80%	120%	NA		
Turbidity	3199591		1.3	1.5	NA	< 0.5	94%	80%	120%	NA			NA		
Electrical Conductivity	3163986	3163986	478	478	0.0%	< 1	107%	90%	110%	NA			NA		
Nitrate as N	3163986	3163986	1.02	1.07	4.8%	< 0.05	92%	80%	120%	NA	80%	120%	90%	70%	130%
Nitrite as N	3163986	3163986	<0.05	<0.05	NA	< 0.05	100%	80%	120%	NA	80%	120%	103%	70%	130%
Ammonia as N	3162991		<0.03	<0.03	NA	< 0.03	102%	80%	120%	88%	80%	120%	83%	70%	130%
Ortho-Phosphate as P	3156658		<0.01	<0.01	NA	< 0.01	111%	80%	120%	110%	80%	120%	105%	80%	120%
Total Sodium	3163986	3163986	49.1	50.2	2.3%	< 0.1	102%	80%	120%	111%	80%	120%	NA	70%	130%
Total Potassium	3163986	3163986	1.9	2.0	4.9%	< 0.1	94%	80%	120%	101%	80%	120%	NA	70%	130%
Total Calcium	3163986	3163986	26.9	27.6	2.8%	< 0.1	90%	80%	120%	102%	80%	120%	NA	70%	130%
Total Magnesium	3163986	3163986	4.0	4.1	2.3%	< 0.1	96%	80%	120%	99%	80%	120%	NA	70%	130%
Bicarb. Alkalinity (as CaCO ₃)	3163986	3163986	67	68	0.4%	< 5	NA	80%	120%	NA			NA		
Carb. Alkalinity (as CaCO ₃)	3163986	3163986	<10	<10	NA	< 10	NA	80%	120%	NA			NA		
Hydroxide	3163986	3163986	<5	<5	NA	< 5	NA	80%	120%	NA			NA		
Total Aluminum	3163986	3163986	<5	<5	NA	< 5	87%	80%	120%	95%	80%	120%	102%	70%	130%
Total Antimony	3163986	3163986	<2	<2	NA	< 2	80%	80%	120%	109%	80%	120%	NA	70%	130%
Total Arsenic	3163986	3163986	<2	<2	NA	< 2	94%	80%	120%	99%	80%	120%	94%	70%	130%
Total Barium	3163986	3163986	23	25	NA	< 5	81%	80%	120%	86%	80%	120%	NA	70%	130%
Total Beryllium	3163986	3163986	<2	<2	NA	< 2	93%	80%	120%	101%	80%	120%	98%	70%	130%
Total Bismuth	3163986	3163986	<2	<2	NA	< 2	80%	80%	120%	100%	80%	120%	93%	70%	130%
Total Boron	3163986	3163986	9	8	NA	< 5	90%	80%	120%	97%	80%	120%	100%	70%	130%
Total Cadmium	3163986	3163986	<0.09	<0.09	NA	< 0.09	97%	80%	120%	99%	80%	120%	98%	70%	130%
Total Chromium	3163986	3163986	<1	<1	NA	< 1	86%	80%	120%	95%	80%	120%	101%	70%	130%
Total Cobalt	3163986	3163986	<1	<1	NA	< 1	90%	80%	120%	98%	80%	120%	99%	70%	130%
Total Copper	3163986	3163986	7	7	4.8%	< 1	94%	80%	120%	105%	80%	120%	104%	70%	130%
Total Iron	3163986	3163986	<50	<50	NA	< 50	85%	80%	120%	96%	80%	120%	104%	70%	130%
Total Lead	3163986	3163986	<0.5	<0.5	NA	< 0.5	104%	80%	120%	109%	80%	120%	97%	70%	130%
Total Manganese	3163986	3163986	<2	<2	NA	< 2	89%	80%	120%	98%	80%	120%	97%	70%	130%
Total Molybdenum	3163986	3163986	<2	<2	NA	< 2	97%	80%	120%	116%	80%	120%	130%	70%	130%
Total Nickel	3163986	3163986	<2	<2	NA	< 2	92%	80%	120%	101%	80%	120%	102%	70%	130%
Total Phosphorous	3163986	3163986	0.05	0.05	NA	< 0.02	80%	80%	120%	82%	80%	120%	112%	70%	130%
Total Selenium	3163986	3163986	<1	<1	NA	< 1	89%	80%	120%	105%	80%	120%	92%	70%	130%
Total Silver	3163986	3163986	<0.1	<0.1	NA	< 0.1	94%	80%	120%	99%	80%	120%	96%	70%	130%

AGAT QUALITY ASSURANCE REPORT (V1)

Page 9 of 13

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.

Results relate only to the items tested. Results apply to samples as received.

Quality Assurance

CLIENT NAME: TOWN OF KENTVILLE

AGAT WORK ORDER: 21X825157

PROJECT:

ATTENTION TO: Dave Bell

SAMPLING SITE:

SAMPLED BY:

Water Analysis (Continued)

RPT Date: Nov 22, 2021			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 Strontium	3163986	3163986	120	126	5.0%	< 5	86%	80%	120%	90%	80%	120%	NA	70%	130%
Total Thallium	3163986	3163986	<0.1	<0.1	NA	< 0.1	102%	80%	120%	107%	80%	120%	94%	70%	130%
Total Tin	3163986	3163986	<2	<2	NA	< 2	90%	80%	120%	98%	80%	120%	97%	70%	130%
Total Titanium	3163986	3163986	<2	<2	NA	< 2	92%	80%	120%	100%	80%	120%	98%	70%	130%
Total Uranium	3163986	3163986	<0.2	<0.2	NA	< 0.2	98%	80%	120%	103%	80%	120%	100%	70%	130%
Total Vanadium	3163986	3163986	<2	<2	NA	< 2	89%	80%	120%	97%	80%	120%	106%	70%	130%
Total Zinc	3163986	3163986	<5	<5	NA	< 5	89%	80%	120%	94%	80%	120%	95%	70%	130%

Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Water Analysis - TOC

Total Organic Carbon	3201369		2	2	NA	< 1	92%	80%	120%	98%	80%	120%	102%	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.

Certified By:


Method Summary

CLIENT NAME: TOWN OF KENTVILLE

AGAT WORK ORDER: 21X825157

PROJECT:
ATTENTION TO: Dave Bell

SAMPLING SITE:
SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
pH	INOR-121-6001	SM 4500 H+B	PC TITRATE
Reactive Silica as SiO ₂	INOR-121-6027	SM 4500-SiO ₂ F	COLORIMETER
Chloride	INORG-121-6005	SM 4110 B	ION CHROMATOGRAPH
Fluoride	INORG-121-6005	SM 4110 B	ION CHROMATOGRAPH
Sulphate	INORG-121-6005	SM 4110 B	ION CHROMATOGRAPH
Alkalinity	INOR-121-6001	SM 2320 B	
True Color	INOR-121-6008	SM 2120 B	LACHAT FIA
Turbidity	INOR-121-6022	SM 2130 B	NEPHELOMETER
Electrical Conductivity	INOR-121-6001	SM 2510 B	PC TITRATE
Nitrate + Nitrite as N	INORG-121-6005	SM 4110 B	CALCULATION
Nitrate as N	INORG-121-6005	SM 4110 B	ION CHROMATOGRAPH
Nitrite as N	INORG-121-6005	SM 4110 B	ION CHROMATOGRAPH
Ammonia as N	INOR-121-6047	SM 4500-NH ₃ H	COLORIMETER
Ortho-Phosphate as P	INOR-121-6012	SM 4500-P G	COLORIMETER
Total Sodium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Potassium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Calcium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Magnesium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Bicarb. Alkalinity (as CaCO ₃)	INORG-121-6001	SM 2320 B	PC TITRATE
Carb. Alkalinity (as CaCO ₃)	INORG-121-6001	SM 2320 B	PC TITRATE
Hydroxide	INORG-121-6001	SM 2320 B	PC-TITRATE
Calculated TDS	CALCULATION	SM 1030E	CALCULATION
Hardness	CALCULATION	SM 2340B	CALCULATION
Langelier Index (@20C)	CALCULATION	CALCULATION	CALCULATION
Langelier Index (@ 4C)	CALCULATION	CALCULATION	CALCULATION
Saturation pH (@ 20C)	CALCULATION	CALCULATION	CALCULATION
Saturation pH (@ 4C)	CALCULATION	CALCULATION	CALCULATION
Anion Sum	CALCULATION	SM 1030E	CALCULATION
Cation sum	CALCULATION	SM 1030E	CALCULATION
% Difference/ Ion Balance	CALCULATION	SM 1030E	CALCULATION
Total Aluminum	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Antimony	MET121-6104 & MET-121-6105	SM 3125	ICP-MS
Total Arsenic	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Barium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Beryllium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Bismuth	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Boron	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Cadmium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Chromium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS

Method Summary

CLIENT NAME: TOWN OF KENTVILLE

AGAT WORK ORDER: 21X825157

PROJECT:
ATTENTION TO: Dave Bell

SAMPLING SITE:
SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Total Cobalt	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Copper	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Iron	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Lead	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Manganese	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Molybdenum	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Nickel	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Phosphorous	MET-121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Selenium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Silver	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Strontium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Thallium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Tin	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Titanium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Uranium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Vanadium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Zinc	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Organic Carbon	INST 0170	SM 5310 B	COMBUSTION
Reporting- W			N/A

Laboratory Use Only

Arrival Condition: ☐ Good ☐ Poor (see notes)

Arrival Temperature: 0.4, 8.8, 9.4

Hold Time: _____

AGAT Job Number: 21X825157 21 NOV 3 1:23 PM

Notes: _____

Chain of Custody Record

P: 902.468.8718 • F: 902.468.8924

Report Information

Company: Town of Kentville
Contact: David Bell
Address: 354 Main Street
Kentville, NS B4N 1K6
Phone: 902-679-2521 Fax: 902-679-2375
Client Project #: _____
AGAT Quotation: _____
Please Note: If quotation number is not provided client will be billed full price for analysis.

Report Information (Please print):

1. Name: Dave Bell
Email: dbell@kentville.ca
2. Name: _____
Email: _____

Report Format

☐ Single Sample per page
☒ Multiple Samples per page
☐ Excel Format Included
☐ Export

Turnaround Time Required (TAT)

Regular TAT ☒ 5 to 7 working days

Rush TAT ☐ Same day ☐ 1 day
☐ 2 days ☐ 3 days

Date Required: _____

Invoice To

Same Yes ☐ / No ☐

Company: _____
Contact: _____
Address: _____
Phone: _____ Fax: _____
PO/Credit Card#: _____

Regulatory Requirements (Check):

☐ List Guidelines on Report ☐ Do not list Guidelines on Report

☐ PIRI

☐ Tier 1 ☐ Res ☐ Pot ☐ Coarse
☐ Tier 2 ☐ Com ☐ N/Pot ☐ Fine
☐ Gas ☐ Fuel ☐ Lube

☐ CCME

☒ CDWQ

☐ Industrial ☐ NSEQS-Cont Sites
☐ Commercial ☐ HRM 101
☐ Res/Park ☐ Storm Water
☐ Agricultural ☐ Waste Water
☐ FWAL
☐ Sediment ☐ Other _____

Drinking Water Sample: ☐ Yes ☐ No

Salt Water Sample ☐ Yes ☐ No

Reg. No.: _____

Sample Identification	Date/Time Sampled	Sample Matrix	# Containers	Comments - Site/Sample Info, Sample Containment	Field Filtered/Preserved	Standard Water Analysis	Metals: <input type="checkbox"/> Total <input type="checkbox"/> Diss <input type="checkbox"/> Available	Mercury	BOD	pH	TSS	TDS	VSS	Total Phosphorus	Phenols	Tier 1: TPH/BTEX (PIRI) <input type="checkbox"/> low level	Tier 2: TPH/BTEX Fractionation	CCME-CWS TPH/BTEX	VOC	THM	HAA	PAH	PCB	TC + EC	<input type="checkbox"/> P/A <input type="checkbox"/> MPN <input type="checkbox"/> MF	<input type="checkbox"/> HPC <input type="checkbox"/> Pseudomonas	Fecal Coliform <input type="checkbox"/> MPN <input type="checkbox"/> MF	Other:	Other:	Hazardous (Y/N)
1 - Prospect Reservoir	<u>Nov 3/21 8:10am</u>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																							
2 - D.E. Hiltz Connector Road	<u>Nov 3/21 9:55am</u>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																							
3 - Mitchell Well #1	<u>Nov 3/21 10:20am</u>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																							
4 - Mitchell Well #2	<u>Nov 3/21 10:10am</u>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																							
5 - Bonavista Well	<u>Nov 3/21 10:55am</u>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																							
6 - West End Well #1	<u>Nov 3/21 10:50am</u>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																							
7 - West End Well #2	<u>Nov 3/21 10:35am</u>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																							
8 - East End Well #1	<u>Nov 3/21 11:20am</u>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																							
9 - East End Well #2	<u>Nov 3/21 11:45am</u>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																							

Samples Relinquished By (Print Name):

Jim Refuse

Samples Relinquished By (Sign):

Jim Refuse

Date/Time

Nov 3/21

Date/Time

Nov 3/21

Samples Received By (Print Name):

K. Allen

Samples Received By (Sign):

Date/Time

Nov 3/21

Date/Time

Nov 3/21

Pink Copy - Client

Yellow Copy - AGAT

White Copy - AGAT

Page 1 of 1

Nº: _____

CLIENT NAME: TOWN OF KENTVILLE

354 MAIN ST.

KENTVILLE, NS B4N1K6

(902) 679-2521

ATTENTION TO: Dave Bell

PROJECT:

AGAT WORK ORDER: 21X743716

TRACE ORGANICS REVIEWED BY: Amy Hunter, Trace Organics Supervisor, B.Sc.

WATER ANALYSIS REVIEWED BY: Marta Manka, Data Reporter

DATE REPORTED: May 17, 2021

PAGES (INCLUDING COVER): 9

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (902) 468-8718

***Notes**

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 after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- 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.



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 21X743716

PROJECT:

11 Morris Drive, Unit 122
Dartmouth, Nova Scotia
CANADA B3B 1M2
TEL (902)468-8718
FAX (902)468-8924
<http://www.agatlabs.com>

CLIENT NAME: TOWN OF KENTVILLE

ATTENTION TO: Dave Bell

SAMPLING SITE:

SAMPLED BY:

Haloacetic Acids (water)

DATE RECEIVED: 2021-05-07

DATE REPORTED: 2021-05-17

SAMPLE DESCRIPTION:				Belcher Street	Kenville
SAMPLE TYPE:				Reservoir	Chrysler
DATE SAMPLED:				Water	Water
Parameter	Unit	G / S	RDL	2437351	2437352
Chloroacetic Acid	ug/L		0.5	<0.5	<0.5
Bromoacetic Acid	ug/L		0.5	<0.5	<0.5
Dichloroacetic Acid	ug/L		0.5	0.7	0.9
Trichloroacetic Acid	ug/L		0.5	<0.5	<0.5
Bromochloroacetic Acid	ug/L		0.5	0.6	0.6
Dibromoacetic Acid	ug/L		0.5	0.9	1.1
Total Haloacetic Acids	ug/L	80	4.0	<4.0	<4.0
HAA5	ug/L	80	4.0	<4.0	<4.0
Surrogate	Unit	Acceptable Limits			
2-Bromobutanoic acid	%	70-130		92	92

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Canadian Drinking Water Quality - updated 2021-03
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.

2437351-2437352 HAA5 is a calculated parameter. The calculated parameter is non-accredited. The component parameters of the calculation are accredited.

Analysis performed at AGAT Halifax (unless marked by *)

Certified By:



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 21X743716

PROJECT:

11 Morris Drive, Unit 122
Dartmouth, Nova Scotia
CANADA B3B 1M2
TEL (902)468-8718
FAX (902)468-8924
<http://www.agatlabs.com>

CLIENT NAME: TOWN OF KENTVILLE

ATTENTION TO: Dave Bell

SAMPLING SITE:

SAMPLED BY:

Trihalomethanes in Water

DATE RECEIVED: 2021-05-07

DATE REPORTED: 2021-05-17

		SAMPLE DESCRIPTION:		Belcher Street	Coldbrook
		SAMPLE TYPE:		Reservoir	Village Park
		DATE SAMPLED:		Water	Drive
Parameter	Unit	G / S	RDL	2437351	2437430
Chloroform	ug/L		1	<1	<1
Bromodichloromethane	ug/L		1	<1	<1
Dibromochloromethane	ug/L		1	<1	2
Bromoform	ug/L		1	<1	<1
Total Trihalomethanes	ug/L	100	1	<1	2
Surrogate	Unit	Acceptable Limits			
Toluene-d8	%	60-140		102	103
4-Bromofluorobenzene	%	60-140		79	80

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Canadian Drinking Water Quality - updated 2021-03
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 Halifax (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 21X743716

PROJECT:

11 Morris Drive, Unit 122
Dartmouth, Nova Scotia
CANADA B3B 1M2
TEL (902)468-8718
FAX (902)468-8924
<http://www.agatlabs.com>

CLIENT NAME: TOWN OF KENTVILLE

ATTENTION TO: Dave Bell

SAMPLING SITE:

SAMPLED BY:

Corrosion / Langelier Index

DATE RECEIVED: 2021-05-07

DATE REPORTED: 2021-05-17

Parameter	Unit	SAMPLE DESCRIPTION:		Mitchell Avenue		Prospect	Prospect		Chester Avenue	Belcher Street	Kenville	Donald Hiltz
		SAMPLE TYPE:		- Treated	- Raw	Reservoir -	Reservoir - Raw	Reservoir	Reservoir	Reservoir	Chrysler	Drive
		DATE SAMPLED:		Water	Water	Treated	Water	Water	Water	Water	Water	Water
		G / S	RDL	2437344	2437347	2437348	2437349	2437350	2437351	2437352	2437353	
Total Iron	ug/L	300 AO	50	<50	<50	<50	<50	<50	<50	<50	<50	<50
pH		7.0-10.5		7.59	7.74	7.69	6.94	7.68	7.71	7.56	7.54	
Hardness	mg/L			98.8	133	85.2	82.0	85.2	89.4	85.3	85.8	
Langelier Index (@20C)	NA			-0.66	-0.36	-0.65	-1.66	-0.66	-0.61	-0.77	-0.79	
Langelier Index (@ 4C)	NA			-0.98	-0.68	-0.97	-1.98	-0.98	-0.93	-1.09	-1.11	
Saturation pH (@ 20C)	NA			8.25	8.10	8.34	8.60	8.34	8.32	8.33	8.33	
Saturation pH (@ 4C)	NA			8.57	8.42	8.66	8.92	8.66	8.64	8.65	8.65	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Canadian Drinking Water Quality - updated 2021-03
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.

2437344-2437353 Hardness, Langelier Index, and Saturation pH are calculated parameters. The calculated parameters are non-accredited. The component parameters of the calculations are accredited.

Analysis performed at AGAT Halifax (unless marked by *)

Certified By:

Marla Manka



AGAT Laboratories

Exceedance Summary

AGAT WORK ORDER: 21X743716

PROJECT:

11 Morris Drive, Unit 122
Dartmouth, Nova Scotia
CANADA B3B 1M2
TEL (902)468-8718
FAX (902)468-8924
<http://www.agatlabs.com>

CLIENT NAME: TOWN OF KENTVILLE

ATTENTION TO: Dave Bell

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
2437349	Prospect Reservoir - Raw	NS-CDWQ incl [AO]	Corrosion / Langelier Index	pH		7.0-10.5 OG	6.94

Quality Assurance

CLIENT NAME: TOWN OF KENTVILLE

AGAT WORK ORDER: 21X743716

PROJECT:

ATTENTION TO: Dave Bell

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date: May 17, 2021

			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

Trihalomethanes in Water

Chloroform	1	2432630	< 1	< 1	NA	< 1	70%	50%	140%	71%	60%	130%	70%	50%	140%
Bromodichloromethane	1	2432630	< 1	< 1	NA	< 1	62%	50%	140%	63%	60%	130%	68%	50%	140%
Dibromochloromethane	1	2432630	< 1	< 1	NA	< 1	63%	50%	140%	68%	60%	130%	72%	50%	140%
Bromoform	1	2432630	< 1	< 1	NA	< 1	57%	50%	140%	61%	60%	130%	65%	50%	140%

Comments: If Matrix spike value is NA, the spiked analyte concentration was lower than that of the matrix contribution. Matrix spike performed on a different sample than the duplicate.

If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.


Haloacetic Acids (water)

Chloroacetic Acid	1	2435629	< 0.5	< 0.5	NA	< 0.5	102%	70%	130%	68%	60%	130%	71%	60%	130%
Bromoacetic Acid	1	2435629	< 0.5	< 0.5	NA	< 0.5	102%	70%	130%	82%	60%	130%	88%	60%	130%
Dichloroacetic Acid	1	2435629	0.8	0.5	NA	< 0.5	94%	70%	130%	109%	60%	130%	106%	60%	130%
Trichloroacetic Acid	1	2435629	< 0.5	< 0.5	NA	< 0.5	91%	70%	130%	102%	60%	130%	95%	60%	130%
Bromochloroacetic Acid	1	2435629	0.7	0.7	NA	< 0.5	84%	70%	130%	116%	60%	130%	111%	60%	130%
Dibromoacetic Acid	1	2435629	0.8	0.7	NA	< 0.5	88%	70%	130%	116%	60%	130%	112%	60%	130%

Comments: If Matrix spike value is NA, the spiked analyte concentration was lower than that of the matrix contribution.

If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Certified By:



Quality Assurance

CLIENT NAME: TOWN OF KENTVILLE

AGAT WORK ORDER: 21X743716

PROJECT:

ATTENTION TO: Dave Bell

SAMPLING SITE:

SAMPLED BY:

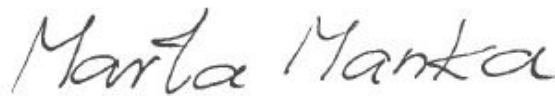
Water Analysis															
RPT Date: May 17, 2021			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Corrosion / Langelier Index

Total Iron	2444842	64	64	NA	< 50	97%	80%	120%	95%	80%	120%	112%	70%	130%
pH	2449388	7.75	7.86	1.4%	<	100%	80%	120%	NA	80%	120%	NA	80%	120%

Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Certified By:





Method Summary

CLIENT NAME: TOWN OF KENTVILLE

AGAT WORK ORDER: 21X743716

PROJECT:

ATTENTION TO: Dave Bell

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Chloroacetic Acid	ORG-120-5110	EPA 552.3	GC/ECD
Bromoacetic Acid	ORG-120-5110	EPA 552.3	GC/ECD
Dichloroacetic Acid	ORG-120-5110	EPA 552.3	GC/ECD
Trichloroacetic Acid	ORG-120-5110	EPA 552.3	GC/ECD
Bromochloroacetic Acid	ORG-120-5110	EPA 552.3	GC/ECD
Dibromoacetic Acid	ORG-120-5110	EPA 552.3	GC/ECD
2-Bromobutanoic acid	ORG-120-5110	EPA 552.3	GC/ECD
Total Haloacetic Acids	ORG-120-5110	EPA 552.3	GC/ECD
HAA5	ORG-120-5110	EPA 552.3	GC/ECD
Chloroform	VOL-120-5001	EPA SW-846 5030B/8260B	GC/MS
Bromodichloromethane	VOL-120-5001	EPA SW846 5230B/8260	GC/MS
Dibromochloromethane	VOL-120-5001	EPA SW846 5230B/8260	GC/MS
Bromoform	VOL-120-5001	EPA SW846 5230B/8260	GC/MS
Total Trihalomethanes	VOL-120-5001	EPA SW846 5230/8260	GC/MS
Toluene-d8	VOL-120-5001	EPA SW846 5030B/8260B	GC/MS
4-Bromofluorobenzene	VOL-120-5001	EPA SW846 5030B/8260B	GC/MS
Water Analysis			
Total Iron	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
pH	INOR-121-6001	SM 4500 H+B	PC TITRATE
Hardness			
Langelier Index (@20C)			CALCULATION
Langelier Index (@ 4C)			CALCULATION
Saturation pH (@ 20C)			CALCULATION
Saturation pH (@ 4C)			CALCULATION



AGAT Laboratories

Unit 122 - 11 Morris Dr.
Dartmouth, Nova Scotia
B3B 1M2
http://webearth.agatlabs.com

Phone: 902-468-8718
Fax: 902-468-8924
www.agatlabs.com

Laboratory use Only

Arrival Condition: ☒ Good ☐ Poor (complete 'notes')
Arrival Temperature: 17.9278 AGAT Job Number: 218743716
Notes: Cooler ice packs

Drinking Water Sample (y/n): _____ Reg. No. _____

Waterworks Number: _____

Report To:				Report Information				Report Format		Turnaround Time (TAT) Business Days												
Company: Town of Kentville				1. Name: Dave Bell				<input type="checkbox"/> Single PDF sample per page		Regular TAT: <input type="checkbox"/> 5 - 7 days												
Contact: Dave Bell				Email: <u>dbell@kentville.ca</u>				<input type="checkbox"/> Multiple PDF samples per page		Rush TAT: <input type="checkbox"/> 1 day <input type="checkbox"/> 2 days												
Address: 354 Main Street				2. Name: _____				<input type="checkbox"/> Excel Format Included		Date Required: _____												
Kentville NS B4N 1K6				Email: _____						Time Required: _____												
Phone: 902-679-2521 FAX: _____				Regulatory Requirements (Check):																		
PO#: _____				<input type="checkbox"/> List Guidelines on Report <input type="checkbox"/> Do Not List Guidelines on Report																		
AGAT Quotation: _____				<input type="checkbox"/> PIRI																		
Client Project #: _____				Site Info (check all that apply):																		
Invoice to: Same (Y/N) - Circle				<input type="checkbox"/> Tier 1 <input type="checkbox"/> Res. <input type="checkbox"/> Pot. <input type="checkbox"/> Coarse																		
Company: _____				<input type="checkbox"/> Tier 2 <input type="checkbox"/> Com <input type="checkbox"/> N/Pot. <input type="checkbox"/> Fine																		
Contact: _____				<input type="checkbox"/> Gas <input type="checkbox"/> Fuel <input type="checkbox"/> Lube																		
Address: _____				<input type="checkbox"/> CCME <input type="checkbox"/> CDWQ																		
Phone: _____ Fax: _____				<input type="checkbox"/> Ind <input type="checkbox"/> NSDFOSP																		
PO#/Credit Card #: _____				<input type="checkbox"/> Com <input type="checkbox"/> HRM 101																		
				<input type="checkbox"/> Res/P Storm Water																		
				<input type="checkbox"/> Ag <input type="checkbox"/> HRM 101																		
				<input type="checkbox"/> FWAL Waste Water																		
				<input type="checkbox"/> Sediment																		
				<input type="checkbox"/> Other _____																		
SAMPLE IDENTIFICATION		DATE / TIME SAMPLED	SAMPLE MATRIX	# OF CONTAINERS	COMMENTS - Site/Sample Info, Sample Containment	Field Filtered/ Preserved	Corrosion Index (alk, cond, Ca, Mn)	HAA	THM											Other	Hazardous (Y/N)	Lab Sample #
Mitchell Avenue - Treated			water	2			X															
Mitchell Avenue - Raw			water	2			X															
Prospect Reservoir - Treated			water	2			X															
Prospect Reservoir - Raw			water	2			X															
Chester Avenue Reservoir			water	2			X															
Belcher Street Reservoir			water	2			X	X	X													
Kentville Chrysler			water	5			X	X														
Donald Hiltz Drive			water	2			X															
Coldbrook Village Park Drive			water	3					X													
Sample Relinquished By (print name & sign)				Date/Time	Samples Received By (print name and sign)				Date/Time	Special Instructions												
Sample Relinquished By (print name & sign)				Date/Time	Samples Received By (print name and sign)				Date/Time													
										Page _____ of _____												

CLIENT NAME: TOWN OF KENTVILLE**354 MAIN ST.****KENTVILLE, NS B4N1K6****(902) 679-2521****ATTENTION TO: Dave Bell****PROJECT:****AGAT WORK ORDER: 21X817810****WATER ANALYSIS REVIEWED BY: Ashley Dussault, Report Writer****DATE REPORTED: Oct 22, 2021****PAGES (INCLUDING COVER): 6****VERSION*: 1**

Should you require any information regarding this analysis please contact your client services representative at (902) 468-8718

Notes*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 after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- 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: 21X817810

PROJECT:

11 Morris Drive, Unit 122
Dartmouth, Nova Scotia
CANADA B3B 1M2
TEL (902)468-8718
FAX (902)468-8924
<http://www.agatlabs.com>

CLIENT NAME: TOWN OF KENTVILLE

ATTENTION TO: Dave Bell

SAMPLING SITE:

SAMPLED BY:

Health Canada Lead Sampling - Drinking Water + Copper

DATE RECEIVED: 2021-10-19

DATE REPORTED: 2021-10-22

				01 (21 Oakdene Ave)	02 (29 Mitchell Ave)	03 (52 Grant Street)	04 (25 Caldwell Ave)	05 (18 Academy St)	06 (11 Oakdene Terr)	07 (40 Anderson Blvd)	08 (330 Cornwallis St)
SAMPLE DESCRIPTION:				Ave)	Ave)	Street)	Ave)	St)	Terr)	Blvd)	Cornwallis St)
SAMPLE TYPE:				Water	Water	Water	Water	Water	Water	Water	Water
DATE SAMPLED:				2021-10-13 05:30	2021-10-14 07:00	2021-10-13 07:00	2021-10-13 07:30	2021-10-13 07:00	2021-10-15 09:00	2021-10-13 07:20	2021-10-13 07:30
Parameter	Unit	G / S	RDL	3104966	3104981	3104982	3104983	3104984	3104985	3104986	3104987
Total Lead - Health Canada	ug/L	5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7
Total Copper	ug/L	2000, 1000	2	18	54	28	51	87	26	31	55
				09 (16 Parkview Road)	10 (259 Belcher Street)	11 (19 Condon Ave)	12 (45 Highland Ave)	13 (875 West Main St)	14 (20 Grant Street)	15 (6049 Highway 12)	16 (90 Exhibition St)
SAMPLE DESCRIPTION:				Road)	Street)	Ave)	Ave)	Main St)	Street)	Highway 12)	Exhibition St)
SAMPLE TYPE:				Water	Water	Water	Water	Water	Water	Water	Water
DATE SAMPLED:				2021-10-13 06:50	2021-10-14 10:00	2021-10-15 07:20	2021-10-13 07:05	2021-10-14 11:30	2021-10-14 10:45	2021-10-14 09:20	2021-10-14 10:30
Parameter	Unit	G / S	RDL	3104988	3104989	3104990	3104991	3104992	3104993	3104994	3104995
Total Lead - Health Canada	ug/L	5	0.5	<0.5	<0.5	1.5	<0.5	0.8	0.6	<0.5	<0.5
Total Copper	ug/L	2000, 1000	2	141	2	51	66	38	34	16	8
				17 (32 Main St)	18 (11 Kings Ride)	19 (26 Colbrook VPD)	20 (933 Park Street)				
SAMPLE DESCRIPTION:				Water	Water	Water	Water				
SAMPLE TYPE:				Water	Water	Water	Water				
DATE SAMPLED:				2021-10-14 09:50	2021-10-14 10:20	2021-10-14 11:20	2021-10-14 11:05				
Parameter	Unit	G / S	RDL	3104996	3104997	3104998	3104999				
Total Lead - Health Canada	ug/L	5	0.5	<0.5	0.6	<0.5	<0.5				
Total Copper	ug/L	2000, 1000	2	16	34	10	19				

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Canadian Drinking Water Quality - updated 2021-03
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 Halifax (unless marked by *)

Certified By:

Ashley Dussault

Quality Assurance

CLIENT NAME: TOWN OF KENTVILLE

AGAT WORK ORDER: 21X817810

PROJECT:

ATTENTION TO: Dave Bell

SAMPLING SITE:

SAMPLED BY:

Water Analysis															
RPT Date: Oct 22, 2021			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

Health Canada Lead Sampling - Drinking Water + Copper

Total Lead - Health Canada	3104999	3104999	<0.5	<0.5	NA	< 0.5	93%	80%	120%	103%	80%	120%	96%	70%	130%
Total Copper	3104999	3104999	19	20	2.3%	< 2	92%	80%	120%	101%	80%	120%	102%	70%	130%

Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Certified By:


Method Summary

CLIENT NAME: TOWN OF KENTVILLE

AGAT WORK ORDER: 21X817810

PROJECT:

ATTENTION TO: Dave Bell

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Total Lead - Health Canada	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Copper	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS



Laboratories

webearth.agatlabs.com • www.agatlabs.com

P: 902.468.8718 • F: 902.468.8924

Chain of Custody Record

Report Information

Company: Town Of Kentville

Contact: David Bell

Address: 354 Main Street
Kentville, NS B4N 1K6

Phone: 902-679-2521 Fax: 902-679-2375

Client Project #: _____

AGAT Quotation: _____

Please Note: If quotation number is not provided client will be billed full price for analysis.

Invoice To

Same Yes ☐ / No ☐

Company: _____
Contact: _____
Address: _____

Phone: _____ Fax: _____
PO/Credit Card#: _____

Report Information (Please print):

1. Name: David Bell
Email: dbell@kentville.ca

2. Name: _____
Email: _____

Regulatory Requirements (Check):

☐ List Guidelines on Report ☐ Do not list Guidelines on Report

☐ PIRI

☐ Tier 1 ☐ Res ☐ Pot ☐ Coarse

☐ Tier 2 ☐ Com ☐ N/Pot ☐ Fine

☐ Gas ☐ Fuel ☐ Lube

☐ CCME ☐ CDWQ

☐ Industrial ☐ NSEQS-Cont Sites

☐ Commercial

☐ Res/Park ☐ HRM 101

☐ Agricultural ☐ Storm Water

☐ FWAL ☐ Waste Water

☐ Sediment ☐ Other

Report Format

☐ Single Sample per page

☐ Multiple Samples per page

☐ Excel Format Included

☐ Export

Drinking Water Sample: ☐ Yes ☒ No Salt Water Sample ☐ Yes ☐ No
Reg. No.: _____

Laboratory Use Only

Arrival Condition: ☐ Good ☐ Poor (see notes)
Arrival Temperature: 62, 9.1, 8.5
Hold Time: _____
AGAT Job Number: 21X817810

Notes:

no TAT

Turnaround Time Required (TAT)

Regular TAT ☒ 5 to 7 working days

Rush TAT ☐ Same day ☐ 1 day
☐ 2 days ☐ 3 days

Date Required:

<div>Company: <input type="text"/></div> <div>Contact: <input type="text"/></div> <div>Address: <input type="text"/></div> <div>Phone: <input type="text"/> Fax: <input type="text"/></div> <div>PO/Credit Card#: <input type="text"/></div>					<div><input type="checkbox"/> CCME <input type="checkbox"/> CDWQ</div> <div><input type="checkbox"/> Industrial <input type="checkbox"/> NSEQS-Cont Sites</div> <div><input type="checkbox"/> Commercial <input type="checkbox"/> HRM 101</div> <div><input type="checkbox"/> Res/Park <input type="checkbox"/> Storm Water</div> <div><input type="checkbox"/> Agricultural <input type="checkbox"/> Waste Water</div> <div><input type="checkbox"/> FWAL</div> <div><input type="checkbox"/> Sediment <input type="checkbox"/> Other <input type="text"/></div>																							
Sample Identification	Date/Time Sampled	Sample Matrix	# Containers	Comments – Site/Sample Info. Sample Containment	Field Filtered/Preserved	Standard Water Analysis	Metals: <input type="checkbox"/> Total <input type="checkbox"/> Diss <input type="checkbox"/> Available	Mercury	<input type="checkbox"/> BOD <input type="checkbox"/> CBOD	pH	<input type="checkbox"/> TSS <input type="checkbox"/> TDS <input type="checkbox"/> VSS	TKN	Total Phosphorus	Phenols	Tier 1: TPH/BTEX (P/I) <input type="checkbox"/> low level	Tier 2: TPH/BTEX Fractionation	CCME-CWS TPH/BTEX	VOC	THM	HAA	PAH	PCB	TC + EC <input type="checkbox"/> P/A <input type="checkbox"/> MPN <input type="checkbox"/> MF	<input type="checkbox"/> HPC <input type="checkbox"/> Pseudomonas	Fecal Coliform <input type="checkbox"/> MPN <input type="checkbox"/> MF	Other: Stagnated Lead & Copper	Other:	Hazardous (Y/N)
Sec Page 2 for samples																												
		</																										

Samples Relinquished By (Print Name):

Dave Bell

Date/Time	Location	Activity	Remarks
10/10/2023

Samples Received By (Print Name):

Date/Time	Location	Activity	Remarks
10/10/2023 10:00	Room 101	Meeting with Mr. Smith	Discussed project progress
10/10/2023 14:30	Office	Writing report	Completed section 2
10/11/2023 09:00	Field Site	Conducting survey	Collected 5 samples
10/11/2023 16:00	Lab	Analysis of samples	Results pending
10/12/2023 11:00	Meeting Room	Team meeting	Reviewed findings
10/12/2023 15:00	Office	Client presentation	Received feedback
10/13/2023 08:00	Office	Administrative tasks	Updated records
10/13/2023 13:00	Field Site	Equipment maintenance	Checked calibration
10/13/2023 17:00	Office	Writing report	Completed section 3
10/14/2023 10:00	Meeting Room	Meeting with Mr. Jones	Discussed next steps
10/14/2023 14:00	Office	Reviewing documents	Checked for errors
10/15/2023 09:00	Field Site	Conducting survey	Collected 3 samples
10/15/2023 16:00	Lab	Analysis of samples	Results pending
10/16/2023 11:00	Meeting Room	Team meeting	Reviewed findings
10/16/2023 15:00	Office	Client presentation	Received feedback
10/17/2023 08:00	Office	Administrative tasks	Updated records
10/17/2023 13:00	Field Site	Equipment maintenance	Checked calibration
10/17/2023 17:00	Office	Writing report	Completed section 4
10/18/2023 10:00	Meeting Room	Meeting with Mr. Brown	Discussed next steps
10/18/2023 14:00	Office	Reviewing documents	Checked for errors
10/19/2023 09:00	Field Site	Conducting survey	Collected 4 samples
10/19/2023 16:00	Lab	Analysis of samples	Results pending
10/20/2023 11:00	Meeting Room	Team meeting	Reviewed findings
10/20/2023 15:00	Office	Client presentation	Received feedback
10/21/2023 08:00	Office	Administrative tasks	Updated records
10/21/2023 13:00	Field Site	Equipment maintenance	Checked calibration
10/21/2023 17:00	Office	Writing report	Completed section 5
10/22/2023 10:00	Meeting Room	Meeting with Mr. Green	Discussed next steps
10/22/2023 14:00	Office	Reviewing documents	Checked for errors
10/23/2023 09:00	Field Site	Conducting survey	Collected 2 samples
10/23/2023 16:00	Lab	Analysis of samples	Results pending
10/24/2023 11:00	Meeting Room	Team meeting	Reviewed findings
10/24/2023 15:00	Office	Client presentation	Received feedback
10/25/2023 08:00	Office	Administrative tasks	Updated records
10/25/2023 13:00	Field Site	Equipment maintenance	Checked calibration
10/25/2023 17:00	Office	Writing report	Completed section 6
10/26/2023 10:00	Meeting Room	Meeting with Mr. White	Discussed next steps
10/26/2023 14:00	Office	Reviewing documents	Checked for errors
10/27/2023 09:00	Field Site	Conducting survey	Collected 1 sample
10/27/2023 16:00	Lab	Analysis of samples	Results pending
10/28/2023 11:00	Meeting Room	Team meeting	Reviewed findings
10/28/2023 15:00	Office	Client presentation	Received feedback
10/29/2023 08:00	Office	Administrative tasks	Updated records
10/29/2023 13:00	Field Site	Equipment maintenance	Checked calibration
10/29/2023 17:00	Office	Writing report	Completed section 7
10/30/2023 10:00	Meeting Room	Meeting with Mr. Black	Discussed next steps
10/30/2023 14:00	Office	Reviewing documents	Checked for errors
10/31/2023 09:00	Field Site	Conducting survey	Collected 0 samples
10/31/2023 16:00	Lab	Analysis of samples	Results pending
11/01/2023 11:00	Meeting Room	Team meeting	Reviewed findings
11/01/2023 15:00	Office	Client presentation	Received feedback
11/02/2023 08:00	Office	Administrative tasks	Updated records
11/02/2023 13:00	Field Site	Equipment maintenance	Checked calibration
11/02/2023 17:00	Office	Writing report	Completed section 8
11/03/2023 10:00	Meeting Room	Meeting with Mr. Grey	Discussed next steps
11/03/2023 14:00	Office	Reviewing documents	Checked for errors
11/04/2023 09:00	Field Site	Conducting survey	Collected 0 samples
11/04/2023 16:00	Lab	Analysis of samples	Results pending
11/05/2023 11:00	Meeting Room	Team meeting	Reviewed findings
11/05/2023 15:00	Office	Client presentation	Received feedback
11/06/2023 08:00	Office	Administrative tasks	Updated records
11/06/2023 13:00	Field Site	Equipment maintenance	Checked calibration
11/06/2023 17:00	Office	Writing report	Completed section 9
11/07/2023 10:00	Meeting Room	Meeting with Mr. Yellow	Discussed next steps
11/07/2023 14:00	Office	Reviewing documents	Checked for errors
11/08/2023 09:00	Field Site	Conducting survey	Collected 0 samples
11/08/2023 16:00	Lab	Analysis of samples	Results pending
11/09/2023 11:00	Meeting Room	Team meeting	Reviewed findings
11/09/2023 15:00	Office	Client presentation	Received feedback
11/10/2023 08:00	Office	Administrative tasks	Updated records
11/10/2023 13:00	Field Site	Equipment maintenance	Checked calibration
11/10/2023 17:00	Office	Writing report	Completed section 10
11/11/2023 10:00	Meeting Room	Meeting with Mr. Purple	Discussed next steps
11/11/2023 14:00	Office	Reviewing documents	Checked for errors
11/12/2023 09:00			

Pink Copy - Client
Yellow Copy - AGAT
White Copy- AGAT

Page 1 of 2

Nº:

Document ID: DIV-133-1502-004

Date revised: Apr 19, 2021



Chain of Custody Record

P: 902.468.8718 • F: 902.468.8924

Report to:

Company: Town of Kentville

Same as COC#:

	SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	SAMPLE MATRIX Time	COMMENTS	# OF CONTAINERS			Field Filtered/Preserved	Standard Water Analysis	Metals: <input type="checkbox"/> Total <input type="checkbox"/> Dissolved <input type="checkbox"/> Specimen	Mercury	<input type="checkbox"/> BOD <input type="checkbox"/> COD	pH	<input type="checkbox"/> TSS <input type="checkbox"/> TDS	TKN	Total Phosphorus	Phenols	Tier 1: TPH/BTEX (PIR)	Tier 2: TPH/BTEX Fractionation	CCME-CWS TPH/BTEX	VOC	THM	HAA	PAH	PCB	TC + EC <input type="checkbox"/> P/A <input type="checkbox"/> MPN <input type="checkbox"/> MF	<input type="checkbox"/> HPC <input type="checkbox"/> Pseudomonas	Fecal Coliform <input type="checkbox"/> MPN <input type="checkbox"/> MF	Other: Stagnant Lead & Copper	Other:	Hazardous (Y/N)	
					VIALS / JARS	BAGS	BOTTLES																									
1	01	2021/10/13	05:30	21 Oakdene Ave.			1																									
2	02	2021/10/14	07:00	29 Mitchell Ave.			1																									
3	03	2021/10/13	07:00	52 Grant Street			1																									
4	04	2021/10/13	07:30	25 Caldwell Ave.			1																									
5	05	2021/10/13	07:00	18 Academy St.			1																									
6	06	2021/10/15	09:00	11 Oakdene Terr.			1																									
7	07	2021/10/13	07:20	40 Anderson Blvd			1																									
8	08	2021/10/13	07:30	330 Cornwallis St.			1																									
9	09	2021/10/13	06:50	16 Parkview Road			1																									
10	10	2021/10/14	10:00	259 Belcher Street			1																									
11	11	2021/10/15	07:20	19 Condon Ave.			1																									
12	12	2021/10/13	07:05	45 Highland Ave.			1																									
13	13	2021/10/14	11:30	875 West Main St.			1																									
14	14	2021/10/14	10:45	20 Grant Street			1																									
15	15	2021/10/14	09:20	6049 Highway 12			1																									
16	16	2021/10/14	10:30	90 Exhibition St.			1																									
17	17	2021/10/14	09:50	32 Main Street			1																									
18	18	2021/10/14	10:20	11 Kings Ride			1																									
19	19	2021/10/14	11:20	26 Coldbrook VPD			1																									
20	20	2021/10/14	11:05	933 Park Street			1																									
21																																
22																																
23																																
24																																
25																																

Samples Relinquished By (Print Name and Sign): <i>Dave Bell</i>	Date/Time	Samples Received By (Print Name and Sign): <i>[Signature]</i>	Date/Time	Pink Copy - Client Yellow Copy - AGAT White Copy- AGAT	Page <u>2</u> of <u>2</u> No:
Samples Relinquished By (Print Name and Sign):	Date/Time	Samples Received By (Print Name and Sign):	Date/Time		
Samples Relinquished By (Print Name and Sign):	Date/Time	Samples Received By (Print Name and Sign):	Date/Time		