



TOWN OF BATTLEFORD UTILITY DEPARTMENT QUALITY ANALYSIS CONTROL REPORT

FOR THE YEAR 2021

1. WATER TREATED: 913084 M³ PREVIOUS MONTH: _____ M³ PEAK DATE: 3814 – Jul. 01, 2021 – M.M.P
 2. WATER DISTRIBUTED: 660055 M³ PREVIOUS MONTH: _____ M³ PEAK DATE: 5416 – Aug. 02, 2021 – G.S.P
 3. # OF BAC-T SAMPLES SUBMITTED TO LAB: 68 RESULTS: All Within Permit

4. DISTRIBUTION SYSTEM ANALYSIS:

OF SAMPLES ANALYZED: 1216 # OF SAMPLES NOT MEETING GUIDELINES: _____
 DETAILS: _____

							PREV. MONTH	AO	MAX	MIN
FREE CHLORINE (CL ₂)	<u>0.39</u>	MG/L	TO	<u>2.59</u>	MG/L	AVE = <u>0.94</u>	_____			.10
TOTAL CHLORINE (CL ₂)	<u>0.58</u>	MG/L	TO	<u>3.1</u>	MG/L	AVE = <u>1.22</u>	_____			.50
IRON (FE)	<u>0</u>	MG/L	TO	<u>0.09</u>	MG/L	AVE = <u>0.023</u>	_____	.30		
MANGANESE (MN)	<u>0.006</u>	MG/L	TO	<u>0.066</u>	MG/L	AVE = <u>0.029</u>	_____	.05		
PH	<u>7.04</u>	MG/L	TO	<u>8.01</u>	MG/L	AVE = <u>7.51</u>	_____		9.0	6.5
PO ₄ ³	<u>0</u>	MG/L	TO	<u>1.91</u>	MG/L	AVE = <u>0.77</u>	_____			
TURBIDITY	<u>0.05</u>	NTU	TO	<u>0.64</u>	NTU	AVE = <u>0.19</u>	_____		1.0	

5. WATER PLANT LAB ANALYSIS

OF SAMPLES ANALYZED: 365 # OF SAMPLES NOT MEETING GUIDELINES: _____
 DETAILS: _____

							PREV. MONTH	AO	MAX	MIN
FREE CHLORINE (CL ₂)	<u>0.73</u>	MG/L	TO	<u>1.71</u>	MG/L	AVE = <u>1.10</u>	_____			.10
TOTAL CHLORINE (CL ₂)	<u>1.02</u>	MG/L	TO	<u>2.07</u>	MG/L	AVE = <u>1.41</u>	_____			.50
IRON (FE)	<u>0</u>	MG/L	TO	<u>0.06</u>	MG/L	AVE = <u>0.02</u>	_____	.30		
MANGANESE (MN)	<u>0.012</u>	MG/L	TO	<u>0.054</u>	MG/L	AVE = <u>0.03</u>	_____	.05		
PH	<u>7.07</u>	MG/L	TO	<u>7.97</u>	MG/L	AVE = <u>7.545</u>	_____		9.0	6.5
F	<u>0</u>	MG/L	TO	<u>1.59</u>	MG/L	AVE = <u>0.75</u>	_____			
TURBIDITY	<u>0.05</u>	NTU	TO	<u>0.46</u>	NTU	AVE = <u>0.13</u>	_____		1.0	

6. RAW WATER SAMPLES

OF SAMPLES ANALYZED: 365 # OF SAMPLES NOT MEETING GUIDELINES: _____
 DETAILS: _____

							PREV. MONTH
IRON (FE)	<u>0.03</u>	MG/L	TO	<u>2.95</u>	MG/L	AVE = <u>2.09</u>	_____
MANGANESE (MN)	<u>0.331</u>	MG/L	TO	<u>0.708</u>	MG/L	AVE = <u>0.533</u>	_____
TURBIDITY	<u>0.05</u>	NTU	TO	<u>4.63</u>	NTU	AVE = <u>0.59</u>	_____

7. FILTERS

OF SAMPLES ANALYZED: 1800 # OF SAMPLES NOT MEETING GUIDELINES: _____
 DETAILS: _____

							PREV. MONTH
IRON (FE)	<u>0</u>	MG/L	TO	<u>0.26</u>	MG/L	AVE = <u>0.02</u>	_____
MANGANESE (MN)	<u>0.004</u>	MG/L	TO	<u>0.46</u>	MG/L	AVE = <u>0.032</u>	_____
TURBIDITY	<u>0.01</u>	NTU	TO	<u>1.15</u>	NTU	AVE = <u>0.097</u>	_____

8. CHEMICAL DOSAGES

							PREV. MONTH
CHLORINE	<u>3.031</u>	MG/L	TO	<u>7.389</u>	MG/L	AVE = <u>5.728</u>	_____
ORTHOPHOSPHATE	<u>0</u>	MG/L	TO	<u>18.8</u>	MG/L	AVE = <u>2.5</u>	_____
KMNO ⁴	<u>0</u>	NTU	TO	<u>4.898</u>	NTU	AVE = <u>3.100</u>	_____

9. CHEMICAL USAGE

			PREV. MONTH
CHLORINE	<u>4413.23</u>	KG	_____
ORTHOPHOSPHATE	<u>1925.48</u>	KG	_____
KMNO ⁴	<u>2882.93</u>	KG	_____
POLYMER	<u>63.445</u>	KG	_____



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10. WELL PRODUCTIVITY

	WELL 4A	WELL 5	WELL 6	WELL 7
PUMPING RATE M ³ /MIN				
LOW:	0	0	0	0
HIGH:	1.11	1.23	1.01	1.31
AVERAGE:	0.97	0.55	0.72	1.00
TOTAL RUN HOURS	4289	2385	3704	4230
TOTAL M ³ PUMPED	254997	150100	193327	266591

COMMENTS

- 11. TASTE, ODOR, DISCOLORATION COMPLAINTS:

- 12. WATER TREATMENT – MAINTENANCE, REPAIRS, CONCERNS

- 13. WATER DISTRIBUTION – MAINTENANCE, REPAIRS, CONCERNS

- 14. WELLS – MAINTENANCE, REPAIRS, CONCERNS


- 15. COMMENTS AND/OR ADDITIONAL INFORMATION
 Samples Submitted to lab: 52 Regular | 11 Activations | 4 Quarterly | 1 Filter | 6 Air releases (not included in total)

SIGNING OF APPROVAL

DISCUSSED: January 5, 2022

 LAING, DOUG
 COUNCIL DESIGNATE (PRINT)

 COUNCIL DESIGNATE (SIGNATURE)

 WHITTLETON, AUBREY
 UTILITY MANAGER (PRINT)

 UTILITY MANAGER (SIGNATURE)

PRESENTED AND DISCUSSED AT COUNCIL: January 24, 2022

 DOUG LAING
 PRESENTED BY (PRINT)

 COUNCILLOR
 TITLE

