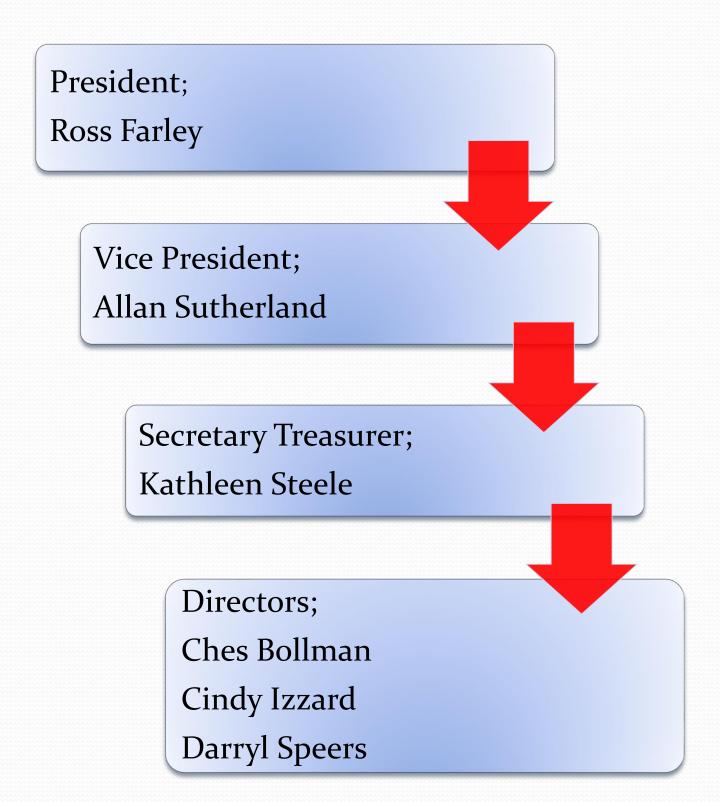
Whitehead Elton Regional Water Co-operative Inc.

2018
ANNUAL REPORT

Board of Directors



Name of Public Water System:

Whitehead Elton Regional Water Co-operative Inc.

Name of Legal Owner:

Whitehead Elton Regional Water Co-operative Inc.

Contact Person: Ralph Berg Manager

Phone: (204) 729 6116 Cell

(204) 571 0910 Forrest Reservoir

(204) 752 2378 Water Treatment Plant

Contact Numbers:

Whitehead Elton Regional Water Co-operative Inc.

(204) 729 6116 Cell

(204) 752 2261 R.M. Of Whitehead

(204) 728 7834 R.M. Of Elton

Emergency Numbers:

Whitehead Elton Regional Water Co-operative Inc.

(204) 729 6116 Cell

(204) 730-2867 24 Hour Emergency Line

(204) 752 2261 R.M. Of Whitehead

(204) 728 7834 R.M. Of Elton

Names of Operators:

Ralph Berg Bo Yeomans Darcy Green

- 1) Introduction
- 2) Description of Water System
 - I. Water Supply Source
 - II. Water Treatment Process
 - III. Classification and Certification
- 3) List of Water Quality Standards
 - I. Water Quality Standards and Monitoring Requirements
 - II. Drinking Water Officer Annual Report
 - PWS 248.70 Whitehead Elton Regional Water Co-operative Inc
 - PWS 248.80 R.M. Of Whitehead
 - PWS 63.50 R.M. Of Elton
 - III. 2017 General Chemical Analysis Report
 - IV. Arsenic Test
- 4) Water System Incidents and Corrective Actions
- 5) Drinking Water Safety Orders, Warnings and Charges
- 6) Major Expenses Incurred
- 7) Future System Expansion

APPENDIX A - Bacteria Sample Results
APPENDIX B - Water Use & Monitoring Well
Reports

1) Introduction:

The 2018 Whitehead Elton Regional Water Cooperative Inc. Annual Report summarizes the water utility's ability to provide safe economical potable water and comply with provincial standards.

2) Description of the Water System:

The Whitehead Elton Regional Water Cooperative Inc. provides potable water to a population of approximately 2300 residents. Corrective Actions were taken and reported as required for normal minor variations during the course of operations. Full results have been attached in Section 3.

The Whitehead Elton Regional Water Cooperative Inc. water system consists of a network of pressure pipelines, a water treatment plant, a booster station, a pressure reducing station and a water storage reservoir. The Whitehead Elton Regional Water Cooperative Inc. owns the Alexander Water Treatment Plant, Dungannan Pressure Reducing Station, Co-op Booster Station and the Forrest Reservoir.

The R.M. of Elton owns three pressure reducing stations and one booster station located east of #10 Highway and north of #1 Highway.

The R.M. of Whitehead owns the pressure reducing station located south of the #1 Highway down Road 115W.

2.I)Water Supply Source

The Whitehead Elton Regional Water Cooperative Inc. receives its water supply from two wells located in the R.M. Of Whitehead. The wells are situated to draw raw water from a sand and gravel aquifer.

The system provides treated water to the R.M. Of Elton, the villages of Forrest and Douglas, the R.M. Of Whitehead, the villages of Alexander and Kemnay and a few residents of the R.M. Of Riverdale and the R.M. Of Cornwallis.

2.II) Water Treatment Process:

The water treatment process is designed to remove hardness, iron, manganese, total dissolved solids, turbidity and arsenic from the raw water supply to meet the aesthetic objectives outlined in the *Guidelines for Canadian Drinking Water Quality (GCDWQ)*. The plant currently provides virus inactivation through chlorine treated water obtaining adequate contact time within the treated water reservoirs.

Re-Chlorination is available at the Forrest Reservoir but it is not in use. The average daily flow through the Alexander Water Treatment Plant of raw water is 690.74 cubic meters per day, with the plant rated at a maximum daily flow of raw water of 1,814.4 cubic meters per day and a yearly raw water total of 387,000 cubic meters.

Raw water is diverted from a sand and gravel aquifer by two wells located approximately 2.5 km NE of the Alexander Water Treatment Plant. The well pumps deliver water to the WTP through a 150 mm HDPE raw water pipeline. Water passes through the reverse osmosis system to remove hardness, iron, manganese, total dissolved solids and turbidity. Following the membrane unit, permeate water is passed through a membrane contactor to remove carbon dioxide in the permeate water, therefore increasing the pH. By Pass water (raw water) passes through a 1.4 m diameter manganese greensand filter to remove iron and manganese allowing for hardness and pH adjustment in the treated water. A portion of the permeate water is also passed through the greensand filter for arsenic removal. Treated water from the R.O. Unit is pH buffered with Sodium Hydroxide injection and the combined treatment streams are chlorinated prior to entering the 550 cubic meter, six cell reservoir. The distribution pumps send water through a 200 mm pipeline to the distribution system.

Iron and Manganese are metals that cause laundry and plumbing fixture staining problems and can accumulate in the distribution pipes and cause reduced flow. Calcium Carbonate causes hardness in the water which diminishes the ability of the water to react with soap and lather. Hardness also forms scale deposits in kettles, hot water tanks and plumbing fixtures which can reduce their life expectancy.

2.III) Classification and Certification

- The Alexander Water Treatment Plant is a Class 2 water treatment facility.
- The Whitehead Elton Regional Water Co-operative Inc. water distribution system is Class 1.
- The R.M. Of Whitehead's distribution system is Class 1.
- The R.M. Of Elton's distribution system is classed as a Small Distribution System.

The Facility classifications are used to determine certification requirements for the water system operators.

3) List of Water Quality Standards

3.I) Water Quality Standards and Monitoring Requirements

The Province of Manitoba has adopted a number of water quality standards from the Health Canada *Guidelines for Canadian Drinking Water Quality*. The health based parameters express the *maximum acceptable concentrations*, *or MAC*, for drinking water. Concentration values in excess of the guidelines constitute a health-related issue and require corrective actions. All health-based parameters were within the limits in 2018 for Whitehead Elton Regional Water Co-operative Inc. and both R.M.'s.

All public water systems, PWS, are required to monitor chlorine residual levels daily. Monitoring is done daily at both the Alexander Water Treatment Plant and the Forrest Reservoir. Results are recorded and at the end of each month, results are forwarded to our Provincial Drinking Water Officer. Copies of the originals must be kept on file and on hand for **TWO YEARS** at each facility.

Bacterial Testing for Total Coliforms and E.coli are done every two weeks, with sample sets being separated by at least 12 days. All results are kept in files at the Water Treatment Plant for a **period of 2 years**.

3.II) Drinking Water Officer Annual Reports

PWS 248.70 Whitehead Elton Regional Water Co-operative Inc. PWS 248.80 R.M. Of Whitehead PWS 63.50 R.M. Of Elton



Office of Drinking Water
1129 Queens Avenue
Brandon Manitoba Canada R7A 1L9
T 204-761-6085 F 204-726-6567
www.manitoba.ca/drinkingwater

March 5, 2019

Kathleen Steele, Secretary-Treasurer Whitehead Elton Regional Water Cooperative Inc. General Delivery Forrest, MB R0K 0W0

Sent via email to: kathy.steele@elton.ca

2018 Annual Compliance Audit

Dear Ms. Steele;

Please find enclosed the 2018 Annual Compliance Audit for the Whitehead Elton Regional public water system (PWS). The report compares water system compliance to *The Drinking Water Safety Act* and its supporting regulations, and the terms and conditions of the water system's current operating licence (PWS-11-487-01 A).

Where non-compliance items are identified, the issues do not necessarily translate into increased public health risk. The Office of Drinking Water uses processes, including boil water advisories, to notify water users of a public health risk.

Please review the following terms and conditions of your operating licence to ensure ongoing compliance:

- Water quality sampling frequencies identified in Table 2.
- Water System Re-assessment (due date: March 1, 2026)
- 2018 Public Water System Annual Report (due date: March 31, 2019)
- Advisory Notification Plan (due date: May 1, 2019)

Operational Guidelines

Water suppliers that own and operate a portion of their water supply on a seasonal basis, such as a campground or park, are reminded they are required to follow Seasonal Water System Start-up/Shutdown procedures. Your operating licence may be amended in the future to reflect this requirement; however, in the interim, the protocol must be followed.

Water suppliers are reminded to immediately notify the Office of Drinking Water of any condition(s) that may affect the ability of the water system to produce or deliver safe drinking water. These conditions include:

- treatment upsets, bypass conditions, operation outside of licence conditions
- contamination of source or treated water

· a disinfection, filtration, or distribution system failure

Operational Guidelines to assist operators in meeting regulatory obligations for monitoring and reporting under The Drinking Water Safety Act, including Seasonal System and Emergency Reporting requirements, can be found on our website at: www.gov.mb.ca/drinkingwater.

Additional Information

Beginning in 2019, the requirement to submit a compliance plan will be removed from operating licences as they are renewed or amended. Section 8 of the Drinking Water Quality Standard Regulation states that the director may require water systems to submit a plan if they are not in compliance with a drinking water standard that details when and how the water supply will come into compliance with the standard. Water systems will be notified in writing if a plan is requested.

Health Canada has completed their review on National Guidelines, including algae (total microcystin toxins) manganese and lead. The new guidelines are expected to be finalized and posted with minor changes following the public consultation stage. Owners and operators are encouraged to review Health Canada's guidelines and related chemistry results to determine what impact they may have on your water supply. You will receive notification of any changes to Health Canada's Guidelines for Canadian Drinking Water Quality and Manitoba Standards should they affect your water supply.

Beginning April 1, 2019, the Office of Drinking Water will begin posting PWS Operating Licences and a copy of the most recent chemistry analysis on our public website.

The 2018 Annual Compliance Audit is based on information submitted to this office. If you have questions regarding non-compliance items identified in this audit, please review your records prior to contacting this office. If your records conflict with the audit information, please call me at (204) 761-6085.

Sincerely.

Danica Wotton

Regional Drinking Water Officer

Enclosures

e-copy: Ralph Berg, Operator werwc.inc@gmail.com



2018 Annual Compliance Audit

Water System: WHITEHEAD ELTON REGIONAL - PWS

Summary of Non-Compliance Incidents:

Code: 248.70

Water System Owner: Whitehead Elton Regional Water Cooperative Inc.

Water System Operating Licence: PWS-11-487-01 A Expiry Date: November 30, 2021

- 1) This report documents the Whitehead Elton Regional Public Water System compliance for the period from January 1 to December 31, 2018.
- 2) Addendum A to this report provides specific information on the non-compliance incidents identified in the summary below.
- 3) Other than the information provided in attached Addendum A, the water supplier has complied with The Drinking Water Safety Act, its supporting regulations, and the terms and conditions of the water system's current operating licence
- 4) This report is based on information submitted by the water supplier, agents of the water supplier, and / or the Province of Manitoba.

None reported	



Addendum A: Record of Non-Compliance

Water System: WHITEHEAD ELTON REGIONAL - PWS Report period: January 1, 2018 to December 31, 2018.

Enforcement Action Taken

Date	Incident	Outcome
	None reported	

Disinfection Requirements

Date	Incident	Outcome
	None reported	

Bacteriological Requirements

Incident	Outcome
None reported	
	None reported

Microbial Requirements

	Outcome
None reported	
	None reported

Turbidity Requirements

Date	Incident	Outcome
	None reported	

Chemical Requirements

Date	Incident	Outcome
	None reported	

Operational Requirements

Date	Incident	Outcome
	None reported	



Sustainable Development

Office of Drinking Water
1129 Queens Avenue
Brandon Manitoba Canada R7A 1L9
T 204-761-6085 F 204-726-6567
www.manitoba.ca/drinkingwater

March 6, 2019

Cindy Izzard, CAO Rural Municipality of Whitehead Box 107 Alexander, MB R0K 0A0

Sent via email to: rmwhitehead@mymts.net

2018 Annual Compliance Audit

Dear Ms. Izzard:

Please find enclosed the 2018 Annual Compliance Audit for the Whitehead (Whitehead Elton Regional) public water system (PWS). The report compares water system compliance to *The Drinking Water Safety Act* and its supporting regulations, and the terms and conditions of the water system's current operating licence (PWS-12-521-01).

Where non-compliance items are identified, the issues do not necessarily translate into increased public health risk. The Office of Drinking Water uses processes, including boil water advisories, to notify water users of a public health risk.

Please review the following terms and conditions of your operating licence to ensure ongoing compliance:

- Water quality sampling frequencies identified in Table 2.
- Water System Assessment (due date: March 1, 2024)

Operational Guidelines

Water suppliers that own and operate a portion of their water supply on a seasonal basis, such as a campground or park, are reminded they are required to follow Seasonal Water System Start-up/Shutdown procedures. Your operating licence may be amended in the future to reflect this requirement; however, in the interim, the protocol must be followed.

Water suppliers are reminded to immediately notify the Office of Drinking Water of any condition(s) that may affect the ability of the water system to produce or deliver safe drinking water. These conditions include:

- treatment upsets, bypass conditions, operation outside of licence conditions
- · contamination of source or treated water
- a disinfection, filtration, or distribution system failure

Operational Guidelines to assist operators in meeting regulatory obligations for monitoring and reporting under The Drinking Water Safety Act, including Seasonal System and Emergency Reporting requirements, can be found on our website at: www.gov.mb.ca/drinkingwater.

Additional Information

Beginning in 2019, the requirement to submit a compliance plan will be removed from operating licences as they are renewed or amended. Section 8 of the Drinking Water Quality Standard Regulation states that the director may require water systems to submit a plan if they are not in compliance with a drinking water standard that details when and how the water supply will come into compliance with the standard. Water systems will be notified in writing if a plan is requested.

Health Canada has completed their review on National Guidelines, including algae (total microcystin toxins) manganese and lead. The new guidelines are expected to be finalized and posted with minor changes following the public consultation stage. Owners and operators are encouraged to review Health Canada's guidelines and related chemistry results to determine what impact they may have on your water supply. You will receive notification of any changes to Health Canada's Guidelines for Canadian Drinking Water Quality and Manitoba Standards should they affect your water supply.

Beginning April 1, 2019, the Office of Drinking Water will begin posting PWS Operating Licences and a copy of the most recent chemistry analysis on our public website.

The 2018 Annual Compliance Audit is based on information submitted to this office. If you have questions regarding non-compliance items identified in this audit, please review your records prior to contacting this office. If your records conflict with the audit information, please call me at (204) 761-6085.

Sincerely,

Danica Wotton

Regional Drinking Water Officer

- Was

Enclosures

copy: Ralph Berg, Manager WERWC werwc.inc@gmail.com



2018 Annual Compliance Audit

Water System: WHITEHEAD (WHITEHEAD ELTON REGIONAL) - PWS

Code: 248.80

Water System Owner: Rural Municipality of Whitehead

Summary of Non-Compliance Incidents:

Water System Operating Licence: PWS-12-521-01 Expiry Date: November 30, 2022

- 1) This report documents the Whitehead (Whitehead Elton Regional) Public Water System compliance for the period from January 1 to December 31, 2018.
- 2) Addendum A to this report provides specific information on the non-compliance incidents identified in the summary below.
- 3) Other than the information provided in attached Addendum A, the water supplier has complied with The Drinking Water Safety Act, its supporting regulations, and the terms and conditions of the water system's current operating licence
- 4) This report is based on information submitted by the water supplier, agents of the water supplier, and / or the Province of Manitoba.



Addendum A: Record of Non-Compliance

Water System: WHITEHEAD (WHITEHEAD ELTON REGIONAL) - PWS

Report period: January 1, 2018 to December 31, 2018.

Enforcement Action Taken

Incident	Outcome
None reported	

Disinfection Requirements

Date	Incident	Outcome
	None reported	

Bacteriological Requirements

Date	Incident	Outcome
	None reported	

Microbial Requirements

Date	Incident	Outcome
	None reported	

Turbidity Requirements

Date	Incident	Outcome
	None reported	
	None reported	

Chemical Requirements

Date	Incident	Outcome
	None reported	

Operational Requirements

Date	Incident	Outcome
	None reported	



Sustainable Development

Office of Drinking Water
1129 Queens Avenue
Brandon Manitoba Canada R7A 1L9
T 204-761-6085 F 204-726-6567
www.manitoba.ca/drinkingwater

Sent via electronic mail: no hard copy to follow

March 1, 2019

Kathleen Steele, CAO Rural Municipality of Elton General Delivery Forrest, MB R0K 0W0

Sent via email to: kathy.steele@elton.ca

2018 Annual Compliance Audit

Dear Ms. Steele:

Please find enclosed the 2018 Annual Compliance Audit for the Elton (Whitehead Elton Regional) public water system (PWS). The report compares water system compliance to *The Drinking Water Safety Act* and its supporting regulations, and the terms and conditions of the water system's current operating licence (PWS-11-488-01).

Where non-compliance items are identified, the issues do not necessarily translate into increased public health risk. The Office of Drinking Water uses processes, including boil water advisories, to notify water users of a public health risk.

Please review the following terms and conditions of your operating licence to ensure ongoing compliance:

- Water quality sampling frequencies identified in Table 2.
- Water System Assessment (due date: March 1, 2024)
- Advisory Notification Plan (due date: May 1, 2019)

Operational Guidelines

Water suppliers that own and operate a portion of their water supply on a seasonal basis, such as a campground or park, are reminded they are required to follow Seasonal Water System Start-up/Shutdown procedures. Your operating licence may be amended in the future to reflect this requirement; however, in the interim, the protocol must be followed.

Water suppliers are reminded to immediately notify the Office of Drinking Water of any condition(s) that may affect the ability of the water system to produce or deliver safe drinking water. These conditions include:

- treatment upsets, bypass conditions, operation outside of licence conditions
- · contamination of source or treated water
- · a disinfection, filtration, or distribution system failure

Operational Guidelines to assist operators in meeting regulatory obligations for monitoring and reporting under The Drinking Water Safety Act, including Seasonal System and Emergency Reporting requirements, can be found on our website at: www.gov.mb.ca/drinkingwater.

Additional Information

Beginning in 2019, the requirement to submit a compliance plan will be removed from operating licences as they are renewed or amended. Section 8 of the Drinking Water Quality Standard Regulation states that the director may require water systems to submit a plan if they are not in compliance with a drinking water standard that details when and how the water supply will come into compliance with the standard. Water systems will be notified in writing if a plan is requested.

Health Canada has completed their review on National Guidelines, including algae (total microcystin toxins) manganese and lead. The new guidelines are expected to be finalized and posted with minor changes following the public consultation stage. Owners and operators are encouraged to review Health Canada's guidelines and related chemistry results to determine what impact they may have on your water supply. You will receive notification of any changes to Health Canada's Guidelines for Canadian Drinking Water Quality and Manitoba Standards should they affect your water supply.

Beginning April 1, 2019, the Office of Drinking Water will begin posting PWS Operating Licences and a copy of the most recent chemistry analysis on our public website.

The 2018 Annual Compliance Audit is based on information submitted to this office. If you have questions regarding non-compliance items identified in this audit, please review your records prior to contacting this office. If your records conflict with the audit information, please call me at (204) 761-6085.

Sincerely,

Danica Wotton

Regional Drinking Water Officer

- W

Enclosures

copy: Ralph Berg, Manager WERWC werwc@mynetset.ca



2018 Annual Compliance Audit

Water System: ELTON (WHITEHEAD ELTON REGIONAL) - PWS

Code: 63.50

Water System Owner: Rural Municipality of Elton

Summary of Non-Compliance Incidents:

Water System Operating Licence: PWS-11-488-01 Expiry Date: November 30, 2021

- 1) This report documents the Elton (Whitehead Elton Regional) Public Water System compliance for the period from January 1 to December 31, 2018.
- 2) Addendum A to this report provides specific information on the non-compliance incidents identified in the summary below.
- 3) Other than the information provided in attached Addendum A, the water supplier has complied with The Drinking Water Safety Act, its supporting regulations, and the terms and conditions of the water system's current operating licence
- 4) This report is based on information submitted by the water supplier, agents of the water supplier, and / or the Province of Manitoba.

None reported	



Sustainable Development

Addendum A: Record of Non-Compliance

Water System: ELTON (WHITEHEAD ELTON REGIONAL) - PWS

Report period: January 1, 2018 to December 31, 2018.

Enforcement Action Taken

Date	Incident	Outcome
	None reported	

Disinfection Requirements

Date	Incident	Outcome
	None reported	

Bacteriological Requirements

Date	Incident	Outcome
	None reported	

Microbial Requirements

Date	Incident	Outcome
	None reported	

Turbidity Requirements

Incident	Outcome
None reported	

Chemical Requirements

Date	Incident	Outcome
	None reported	

Operational Requirements

Date	Incident	Outcome
	None reported	

3.III) 2017 General Chemical Analysis

As part of the operating licence for Whitehead Elton Regional Water Co-operative Inc., a general chemical analysis of both the raw water and the treated water in the reservoir has to be done every **Three years**. Water samples were sent to the lab on February 28/17.

In 2020, another General Chemical Analysis will be done at the Water Treatment Plant to satisfy the conditions of our operating license. We will place the results of the 2020 General Chemical Analysis on the web sites of both Municipalities when the tests are completed by ALS Lab.

It is an extensive test including a physical test, Anions and Nutrients, Organic/Inorganic Carbon, Total Metals and Volatile Organic Compounds tests.

The tests are conducted at ALS Labs in Winnipeg. The results are on the following page. The highlighted areas on the results indicate that the raw water exceeds Aesthetic Objectives or Maximum Acceptable Concentrations cited in the *Guidelines for Canadian Drinking Water Standards*. None of the treated water produced exceeds MAC limits or Aesthetic Objectives.

If there are questions that you may have regarding the lab results, please use one of the contact numbers listed and we can assist in any questions or concerns.

3.IV) Arsenic Test

As part of our license with ODW, the Whitehead Elton Regional Water Co-operative Inc. is required to conduct an arsenic test on raw and treated water at the water treatment plant. The results of the Arsenic test are located after the General Chemical Analysis.



Whitehead Elton Regional Water Co-op

ATTN: MARK YEOMANS

Whitehead Elton Regional - PWS

Box 107

Alexander MB ROK OAO

Date Received: 01-MAR-17

Report Date: 08-MAR-17 13:15 (MT)

Version: FINAL

Client Phone: 204-729-6116

Certificate of Analysis

Lab Work Order #: L1895785

Project P.O. #:

NOT SUBMITTED

Job Reference:

WHITEHEAD ELTON REGIONAL - PWS 248.70

C of C Numbers:

Legal Site Desc:

46658

Hua Wo

Chemistry Laboratory Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721

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ANALYTICAL REPORT

L1895785 CONTD PAGE 2 of 7 08-MAR-17 13:15 (MT)

Physical Tests (WATER)

		Samp	ALS ID led Date led Time ample ID	L1895785-1 28-FEB-17 10:00 WHITEHEAD	L1895785-2 28-FEB-17 10:00 WHITEHEAD
Analyte	Unit	Guide Limit #1	Guide Limit #2	ELTON REGIONAL 1 RAW	ELTON
Colour, True	CU	15	-	<5.0	<5.0
Conductivity	umhos/cm	-		1040	301
Hardness (as CaCO3)	mg/L		-	541 HTC	109 HTC
Langelier Index (4 C)	No Unit	-	-	0.21	-0.18
Langelier Index (60 C)	No Unit	-	-	0.97	0.59
pH	pH units	6.5-8.5	-	7.33	8.03
Total Dissolved Solids	mg/L	500	-	755	167
Transmittance, UV (254 nm)	%T/cm		-	90.4	97.5
Turbidity	NTU	-	-	26.7	<0.10

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2015)

#1: GCDWQ - Aesthetic Objective

#2: GCDWQ - Maximum Acceptable Concentrations (MACs)

Anions and Nutrients (WATER)

		Sampled Date 28-FEB-		L1895785-1 28-FEB-17 10:00	L1895785-2 28-FEB-17 10:00
Analyte	Unit			WHITEHEAD ELTON REGIONAL 1 - RAW	WHITEHEAD ELTON REGIONAL 2 - TREATED
Alkalinity, Total (as CaCO3)	mg/L	-	-	326	95.3
Ammonia, Total (as N)	mg/L	-		0.242	<0.010
Bicarbonate (HCO3)	mg/L	-	-	398	116
Bromide (Br)	mg/L			<0.10	<0.10
Carbonate (CO3)	mg/L	-	-	<0.60	<0.60
Chloride (CI)	mg/L	250		11.3	4.75
Fluoride (F)	mg/L	-	1.5	0.183	0.035
Hydroxide (OH)	mg/L		-	<0.34	<0.34
Nitrate (as N)	mg/L	-	10	<0.0050	<0.0050
Nitrite (as N)	mg/L		1	<0.0010	<0.0010
Sulfate (SO4)	mg/L	500		266	52.7

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2015)

#1: GCDWQ - Aesthetic Objective

#2: GCDWQ - Maximum Acceptable Concentrations (MACs)

Organic / Inorganic Carbon (WATER)

		Samp	ALS ID oled Date	L1895785-1 28-FEB-17	L1895785-2 28-FEB-17
			oled Time ample ID	10:00 WHITEHEAD	10:00 WHITEHEAD
Analyte	Unit	Guide Guide Limit #1 Limit #2		ELTON REGIONAL 1 - RAW	ELTON REGIONAL 2 - TREATED
Dissolved Organic Carbon	mg/L		-	2.55	0.60
Total Organic Carbon	mg/L			2.55	0.50

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2015)

#1: GCDWQ - Aesthetic Objective #2: GCDWQ - Maximum Acceptable Concentrations (MACs)

Detection Limit for result exceeds Guide Limit. Assessment against Guide Limit cannot be made. Analytical result for this parameter exceeds Guide Limit listed on this report.

^{*} Please refer to the Reference Information section for an explanation of any qualifiers noted.



ANALYTICAL REPORT

L1895785 CONTD.... PAGE 3 of 7 08-MAR-17 13:15 (MT)

Total Metals (WATER)

		Samp	ALS ID pled Date bled Time cample ID	L1895785-1 28-FEB-17 10:00 WHITEHEAD	28-FEB-17 10:00 WHITEHEAD	
Analyte	Unit	Guide Guide Limit #1 Limit #2		ELTON REGIONAL 1 - RAW	ELTON REGIONAL 2 TREATED	
Aluminum (AI)-Total	mg/L	0.1	-	<0.0050	<0.0050	
Antimony (Sb)-Total	mg/L	-	0.006	<0.00020	<0.00020	
Arsenic (As)-Total	mg/L		0.01	0.0155	0.00616	
Barium (Ba)-Total	mg/L		1	0.0171	0.00307	
Beryllium (Be)-Total	mg/L	-		<0.00020	<0.00020	
Bismuth (Bi)-Total	mg/L			<0.00020	<0.00020	
Boron (B)-Total	mg/L		5	0.078	0.066	
Cadmium (Cd)-Total	mg/L	-	0.005	<0.000010	<0.000010	
Calcium (Ca)-Total	mg/L	-		137	27.8	
Cesium (Cs)-Total	mg/L		10.2	<0.00010	<0.00010	
Chromium (Cr)-Total	mg/L	-	0.05	<0.0010	<0.0010	
Cobalt (Co)-Total	mg/L	-		<0.00020	<0.00020	
Copper (Cu)-Total	mg/L	1		<0.00020	0.00628	
Iron (Fe)-Total	mg/L	0.3	-	2.31	0.024	
Lead (Pb)-Total	mg/L		0.01	<0.000090	<0.000090	
Lithium (Li)-Total	mg/L	-		0.0463	0.0144	
Magnesium (Mg)-Total	mg/L	-		48.5	9.73	
Manganese (Mn)-Total	mg/L	0.05	-	0.341	0.00368	
Molybdenum (Mo)-Total	mg/L		-	0.00455	0.00079	
Nickel (Ni)-Total	mg/L	-	-	<0.0020	<0.0020	
Phosphorus (P)-Total	mg/L		2	0.21	<0.10	
Potassium (K)-Total	mg/L	-	-	4.66	1.33	
Rubidium (Rb)-Total	mg/L			0.00175	0.00050	
Selenium (Se)-Total	mg/L	-	0.05	<0.0010	<0.0010	
Silicon (Si)-Total	mg/L	-	-	13.2	2.98	
Silver (Ag)-Total	mg/L	-	-	<0.00010	<0.00010	
Sodium (Na)-Total	mg/L	200	-	11.2	15.7	
Strontium (Sr)-Total	mg/L	-	-	0.439	0.0886	
Tellurium (Te)-Total	mg/L		-	<0.00020	<0.00020	
Thallium (TI)-Total	mg/L	-	-	<0.00010	<0.00010	
Thorium (Th)-Total	mg/L	-	-	<0.00010	<0.00010	
Tin (Sn)-Total	mg/L		-	<0.00020	<0.00020	
Titanium (Ti)-Total	mg/L		-	<0.00050	<0.00050	

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2015)

#1: GCDWQ - Aesthetic Objective

#2: GCDWQ - Maximum Acceptable Concentrations (MACs)

^{*} Please refer to the Reference Information section for an explanation of any qualifiers noted.



ANALYTICAL REPORT

L1895785 CONTD.... PAGE 4 of 7 08-MAR-17 13:15 (MT)

Total Metals (WATER)

			ALS ID	L1895785-1	L1895785-2 28-FEB-17	
		Samp	oled Date	28-FEB-17		
		Samp	led Time	10:00	10:00	
	100000	S	WHITEHEAD	WHITEHEAD		
Analyte	Unit	Guide Limit #1	Guide Limit #2	ELTON REGIONAL 1 - RAW	ELTON REGIONAL 2 TREATED	
Tungsten (W)-Total	mg/L	-	-	<0.00010	<0.00010	
Uranium (U)-Total	mg/L		0.02	0.00557	0.00105	
Vanadium (V)-Total	mg/L			<0.00020	<0.00020	
Zinc (Zn)-Total	mg/L	5	-	<0.0020	0.0020	
Zirconium (Zr)-Total	mg/L			<0.00040	<0.00040	

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2015) #1: GCDWQ - Aesthetic Objective

#2: GCDWQ - Maximum Acceptable Concentrations (MACs)

Volatile Organic Compounds (WATER)

		Sample Sample Sa	L1895785-1 28-FEB-17 10:00 WHITEHEAD	
Analyte	Unit	Guide Guide Limit #1 Limit #2		ELTON REGIONAL 1 - RAW
Benzene	mg/L	-	0.005	<0.00050
1,1-dichloroethene	mg/L	-	0.014	<0.00050
Dichloromethane	mg/L	-	0.05	<0.00050
Ethylbenzene	mg/L	0.0016	0.14	<0.00050
MTBE	mg/L	0.015	-	<0.00050
Tetrachloroethene	mg/L		0.01	<0.00050
Toluene	mg/L	0.024	0.06	<0.00050
Trichloroethene	mg/L		0.005	<0.00050
o-Xylene	mg/L			<0.00050
M+P-Xylenes	mg/L		-	<0.00050
Xylenes (Total)	mg/L	0.02	0.09	<0.00071
Surrogate: 4-Bromofluorobenzene (SS)	%		-	86.7
Surrogate: 1,4-Difluorobenzene (SS)%	-	-	96.9

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2015) #1: GCDWQ - Aesthetic Objective

#2: GCDWQ - Maximum Acceptable Concentrations (MACs)



Whitehead Elton Regional Water Co-op

ATTN: RALPH BERG

Whitehead Elton Regional - PWS

Box 107

Alexander MB ROK 0A0

Date Received: 17-AUG-18

Report Date: 27-AUG-18 08:11 (MT)

Version:

FINAL

Client Phone: 204-729-6116

Certificate of Analysis

Lab Work Order #: L2148627

Project P.O. #:

NOT SUBMITTED

Job Reference:

WHITEHEAD ELTON REGIONAL WATER CO-OP

C of C Numbers: Legal Site Desc:

Whe

Hua Wo

Chemistry Laboratory Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721

ALS CANADA LTD Part of the ALS Group An ALS Limited Company



ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2148627-1 #1 RAW Sampled By: CLIENT on 15-AUG-18 Matrix: RAW WATER Single Metal in Water by ICPMS (Tot.) Total Metals in Water by CRC ICPMS Arsenic (As)-Total	0.0134		0.00010	mg/L	24-AUG-18	24-AUG-18	R4183499
L2148627-2 #2 TREATED Sampled By: CLIENT on 15-AUG-18 Matrix: TREATED WATER Single Metal in Water by ICPMS (Tot.) Total Metals in Water by CRC ICPMS Arsenic (As)-Total	0.00236		0.00010	mg/L	24-AUG-18	24-AUG-18	R4183499

^{*} Refer to Referenced Information for Qualifiers (if any) and Methodology.

4) Water System Incidents and Corrective Actions

There was no corrective actions reported to the Drinking Water Officer in 2018.

5) Drinking Water Safety Orders, Warnings and Charges

There were no drinking water safety orders, warnings or charges issued to the Whitehead Elton Regional Water Co-operative Inc.

6) Major Expenses Incurred

The reject pump, responsible for pumping out all reject water produced by the Alexander Water Treatment Plant, needed to be replaced in 2018. It was also discussed and decided that it was necessary to keep a backup pump on hand for future use so two pumps were ordered with one being put in immediately.

The reject line from the Alexander Water Treatment Plant was jetted in 2018. While jetting, it was discovered it had a kink in the reject line pipe. The section of pipe was dug up and replaced. There was also a cleanout installed into the reject line for ease of cleaning.

The raw water wells were cleaned by M&M drilling. While trying to clean the south well it was found that the pipe above the pitless adapter had shifted over slightly, making it unable to be cleaned without being fixed. The south well was dug down to the pitless adapter, fixed, and then cleaned.

A new chlorine analyzer was bought for the Forrest Reservoir due to the previous chlorine analyzers age, reliability, and availability of replacement parts

There was a minor upgrade to the Forrest Reservoir in 2018. The Forrest Reservoir was retrofitted so as to make the truck fill pump capable of being a secondary pump for our rural distribution system to help meet peak demands.

New membranes were purchased and installed into the first stage of both Reverse Osmosis membrane trains.

7) Future System Expansion

At this time, there are no upcoming projects. Further projects may develop as increasing Rural Development projects are brought forward, which may involve further expansion of the water treatment plant and remote reservoirs in the system.

Appendix A

Appendix A contains all the bacterial test results for all 3 Public Water Systems.

Appendix B

Appendix B contains the 2017 Water Use Report that has to be sent to the Provincial Government and the Monitoring Well Graph Reports . The Monitoring Wells are checked twice a year. One well is located at the raw water supply wells and the second is located a quarter of a mile away. These Monitoring Wells are a daily snapshot on the health of the aquifer we draw our water from.

APPENDIX A

2018
BACTERIAL SAMPLE RESULTS

Community Code	Collection Date	System	Location	Total Coliforms	E.Coli	Free Chlorine	Total Chlorine
248.70	03/01/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	03/01/2018	Whitehead/Elton	Treated	0	0	0.86	0.91
248.70	03/01/2018	Whitehead/Elton	Incoming	0	0	1.11	1.18
248.70	03/01/2018	Whitehead/Elton	Outgoing	0	0	0.66	0.67
248.80	03/01/2018	Whitehead Dist.	Firehall	0	0	0.61	0.65
248.80	03/01/2018	Whitehead Dist.	Dungannon	0	0	0.88	0.91
63.50	03/01/2018	Elton Dist.	PR #2	0	0	0.37	0.46
63.50	03/01/2018	Elton Dist.	Elton Office	0	0	0.63	0.66
248.70	17/01/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	17/01/2018	Whitehead/Elton	Treated	0	0	0.70	0.79
248.70	17/01/2018	Whitehead/Elton	Incoming	0	0	0.98	1.07
248.70	17/01/2018	Whitehead/Elton	Outgoing	0	0	0.90	1.02
248.80	17/01/2018	Whitehead Dist.	Firehall	0	0	0.85	0.95
248.80	17/01/2018	Whitehead Dist.	Dungannon	0	0	0.95	1.09
63.50	17/01/2018	Elton Dist.	PR #2	0	0	0.88	0.97
63.50	17/01/2018	Elton Dist.	Elton Office	0	0	0.83	0.91
248.70	31/01/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	31/01/2018	Whitehead/Elton	Treated	0	0	0.95	1.02
248.70	31/01/2018	Whitehead/Elton	Incoming	0	0	0.77	0.83
248.70	31/01/2018	Whitehead/Elton	Outgoing	0	0	0.63	0.71
248.80	31/01/2018	Whitehead Dist.	Firehall	0	0	0.74	0.84
248.80	31/01/2018	Whitehead Dist.	Dungannon	0	0	0.84	0.89
63.50	31/01/2018	Elton Dist.	PR #2	0	0	0.62	0.64
63.50	31/01/2018	Elton Dist.	Elton Office	0	0	0.57	0.66
248.70	14/02/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	14/02/2018	Whitehead/Elton	Treated	0	0	1.04	1.15
248.70	14/02/2018	Whitehead/Elton	Incoming	0	0	0.80	0.83
248.70	14/02/2018	Whitehead/Elton	Outgoing	0	0	0.82	0.85
248.80	14/02/2018	Whitehead Dist.	Firehall	0	0	0.93	1.02
248.80	14/02/2018	Whitehead Dist.	Dungannon	0	0	1.01	1.04
63.50	14/02/2018	Elton Dist.	PR #2	0	0	0.83	0.88
63.50	14/02/2018	Elton Dist.	Elton Office	0	0	0.84	0.86
248.70	01/03/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	01/03/2018	Whitehead/Elton	Treated	0	0	0.62	0.75
248.70	01/03/2018	Whitehead/Elton	Incoming	0	0	0.84	0.89
248.70	01/03/2018	Whitehead/Elton	Outgoing	0	0	0.77	0.84
248.80	01/03/2018	Whitehead Dist.	Firehall	0	0	0.71	1.13
248.80	01/03/2018	Whitehead Dist.	Dungannon	0	0	0.88	0.93
63.50	01/03/2018	Elton Dist.	PR #2	0	0	0.74	0.81
63.50	01/03/2018	Elton Dist.	Elton Office	0	0	0.64	0.77
248.70	14/03/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	14/03/2018	Whitehead/Elton	Treated	0	0	0.71	0.76
248.70	14/03/2018	Whitehead/Elton	Incoming	0	0	0.93	1.03
248.70	14/03/2018	Whitehead/Elton	Outgoing	0	0	0.88	1.01
248.80	14/03/2018	Whitehead Dist.	Firehall	0	0	0.87	0.97
248.80	14/03/2018	Whitehead Dist.	Dungannon	0	0	0.97	1.15

Community Code	Collection Date	System	Location	Total Coliforms	E.Coli	Free Chlorine	Total Chlorine
63.50	14/03/2018	Elton Dist.	PR #2	0	0	0.92	1.02
63.50	14/03/2018	Elton Dist.	Elton Office	0	0	0.80	0.96
248.70	28/03/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	28/03/2018	Whitehead/Elton	Treated	0	0	0.73	0.96
248.70	28/03/2018	Whitehead/Elton	Incoming	0	0	0.74	0.83
248.70	28/03/2018	Whitehead/Elton	Outgoing	0	0	0.71	0.84
248.80	28/03/2018	Whitehead Dist.	Firehall	0	0	0.87	0.95
248.80	28/03/2018	Whitehead Dist.	Dungannon	0	0	0.79	0.83
63.50	28/03/2018	Elton Dist.	PR #2	0	0	0.78	0.82
63.50	28/03/2018	Elton Dist.	Elton Office	0	0	0.76	0.81
248.70	11/04/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	11/04/2018	Whitehead/Elton	Treated	0	0	0.98	1.08
248.70	11/04/2018	Whitehead/Elton	Incoming	0	0	0.88	0.95
248.70	11/04/2018	Whitehead/Elton	Outgoing	0	0	0.82	0.90
248.80	11/04/2018	Whitehead Dist.	Firehall	0	0	0.91	1.04
248.80	11/04/2018	Whitehead Dist.	Dungannon	0	0	0.92	0.99
63.50	11/04/2018	Elton Dist.	PR #2	0	0	0.76	0.82
63.50	11/04/2018	Elton Dist.	Elton Office	0	0	0.80	0.91
248.70	25/04/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	25/04/2018	Whitehead/Elton	Treated	0	0	0.72	0.74
248.70	25/04/2018	Whitehead/Elton	Incoming	0	0	0.92	1.05
248.70	25/04/2018	Whitehead/Elton	Outgoing	0	0	0.92	1.02
248.80	25/04/2018	Whitehead Dist.	Firehall	0	0	0.72	0.87
248.80	25/04/2018	Whitehead Dist.	Dungannon	0	0	0.80	0.92
63.50	25/04/2018	Elton Dist.	PR #2	0	0	0.96	1.04
63.50	25/04/2018	Elton Dist.	Elton Office	0	0	1.04	1.15
248.70	09/05/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	09/05/2018	Whitehead/Elton	Treated	0	0	0.87	0.90
248.70	09/05/2018	Whitehead/Elton	Incoming	0	0	0.95	1.11
248.70	09/05/2018	Whitehead/Elton	Outgoing	0	0	1.10	1.21
248.80	09/05/2018	Whitehead Dist.	Firehall	0	0	0.89	1.07
248.80	09/05/2018	Whitehead Dist.	Dungannon	0	0	1.04	1.10
248.80	09/05/2018	Whitehead Dist.	84 Dungannon	0	0	1.09	1.17
63.50	09/05/2018	Elton Dist.	PR #2	0	0	1.16	1.27
63.50	09/05/2018	Elton Dist.	Elton Office	0	0	1.06	1.19
248.70	23/05/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	23/05/2018	Whitehead/Elton	Treated	0	0	0.88	1.03
248.70	23/05/2018	Whitehead/Elton	Incoming	0	0	0.60	0.64
248.70	23/05/2018	Whitehead/Elton	Outgoing	0	0	0.77	0.85
248.80	23/05/2018	Whitehead Dist.	Firehall	0	0	0.84	0.85
248.80	23/05/2018	Whitehead Dist.	Dungannon	0	0	0.75	0.84
63.50	23/05/2018	Elton Dist.	PR #2	0	0	0.97	1.05
63.50	23/05/2018	Elton Dist.	Elton Office	0	0	0.96	0.99
248.70	06/06/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	06/06/2018	Whitehead/Elton	Treated	0	0	0.79	1.03
248.70	06/06/2018	Whitehead/Elton	Incoming	0	0	0.94	1.01

Community Code	Collection Date	System	Location	Total Coliforms	E.Coli	Free Chlorine	Total Chlorine
248.70	06/06/2018	Whitehead/Elton	Outgoing	0	0	0.68	0.79
248.80	06/06/2018	Whitehead Dist.	Firehall	0	0	0.87	0.96
248.80	06/06/2018	Whitehead Dist.	Dungannon	0	0	0.98	1.06
63.50	06/06/2018	Elton Dist.	PR #2	0	0	0.73	0.79
63.50	06/06/2018	Elton Dist.	Elton Office	0	0	0.73	0.93
248.70	20/06/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	20/06/2018	Whitehead/Elton	Treated	0	0	1.04	1.19
248.70	20/06/2018	Whitehead/Elton	Incoming	0	0	0.99	1.12
248.70	20/06/2018	Whitehead/Elton	Outgoing	0	0	0.93	1.05
248.80	20/06/2018	Whitehead Dist.	Firehall	0	0	0.98	1.12
248.80	20/06/2018	Whitehead Dist.	Dungannon	0	0	1.05	1.15
63.50	20/06/2018	Elton Dist.	PR #2	0	0	0.91	1.04
63.50	20/06/2018	Elton Dist.	Elton Office	0	0	0.92	1.05
248.70	04/07/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	04/07/2018	Whitehead/Elton	Treated	0	0	0.95	1.05
248.70	04/07/2018	Whitehead/Elton	Incoming	0	0	0.86	0.91
248.70	04/07/2018	Whitehead/Elton	Outgoing	0	0	0.82	0.90
248.80	04/07/2018	Whitehead Dist.	Firehall	0	0	1.05	1.20
248.80	04/07/2018	Whitehead Dist.	Dungannon	0	0	0.92	1.01
63.50	04/07/2018	Elton Dist.	PR #2	0	0	0.71	0.83
63.50	04/07/2018	Elton Dist.	Elton Office	0	0	0.71	0.85
248.70	18/07/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	18/07/2018	Whitehead/Elton	Treated	0	0	1.05	1.18
248.70	18/07/2018	Whitehead/Elton	Incoming	0	0	0.88	0.94
248.70	18/07/2018	Whitehead/Elton	Outgoing	0	0	0.86	0.97
248.80	18/07/2018	Whitehead Dist.	Firehall	0	0	0.99	1.14
248.80	18/07/2018	Whitehead Dist.	Dungannon	0	0	1.04	1.11
63.50	18/07/2018	Elton Dist.	PR #2	0	0	0.88	0.97
63.50	18/07/2018	Elton Dist.	Elton Office	0	0	0.89	0.93
248.70	01/08/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	01/08/2018	Whitehead/Elton	Treated	0	0	1.11	1.24
248.70	01/08/2018	Whitehead/Elton	Incoming	0	0	0.96	1.08
248.70	01/08/2018	Whitehead/Elton	Outgoing	0	0	0.83	0.91
248.80	01/08/2018	Whitehead Dist.	Firehall	0	0	1.11	1.28
248.80	01/08/2018	Whitehead Dist.	Dungannon	0	0	1.20	1.25
63.50	01/08/2018	Elton Dist.	PR #2	0	0	0.83	0.88
63.50	01/08/2018	Elton Dist.	Elton Office	0	0	0.85	0.92
248.70	16/08/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	16/08/2018	Whitehead/Elton	Treated	0	0	0.86	1.05
248.70	16/08/2018	Whitehead/Elton	Incoming	0	0	1.16	1.23
248.70	16/08/2018	Whitehead/Elton	Outgoing	0	0	1.22	1.28
248.80	16/08/2018	Whitehead Dist.	Firehall	0	0	0.86	1.04
248.80	16/08/2018	Whitehead Dist.	Dungannon	0	0	1.05	1.18
63.50	16/08/2018	Elton Dist.	PR #2	0	0	1.12	1.30
63.50	16/08/2018	Elton Dist.	Elton Office	0	0	1.16	1.36
248.70	28/08/2018	Whitehead/Elton	Raw	0	0	0.00	0.00

Community Code	Collection Date	System	Location	Total Coliforms	E.Coli	Free Chlorine	Total Chlorin
248.70	28/08/2018	Whitehead/Elton	Treated	0	0	0.99	1.12
248.70	28/08/2018	Whitehead/Elton	Incoming	0	0	0.76	0.85
248.70	28/08/2018	Whitehead/Elton	Outgoing	0	0	0.87	0.96
248.80	28/08/2018	Whitehead Dist.	Firehall	0	0	0.72	0.79
248.80	28/08/2018	Whitehead Dist.	Dungannon	0	0	0.79	0.82
63.50	28/08/2018	Elton Dist.	PR #2	0	0	0.96	1.03
63.50	28/08/2018	Elton Dist.	Elton Office	0	0	0.93	0.98
248.70	12/09/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	12/09/2018	Whitehead/Elton	Treated	0	0	0.95	1.03
248.70	12/09/2018	Whitehead/Elton	Incoming	0	0	0.90	0.94
248.70	12/09/2018	Whitehead/Elton	Outgoing	0	0	0.84	0.90
248.80	12/09/2018	Whitehead Dist.	Firehall	0	0	1.01	1.09
248.80	12/09/2018	Whitehead Dist.	Dungannon	0	0	1.07	1.18
63.50	12/09/2018	Elton Dist.	PR #2	0	0	0.80	0.84
63.50	12/09/2018	Elton Dist.	Elton Office	0	0	0.76	0.80
248.70	26/09/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	26/09/2018	Whitehead/Elton	Treated	0	0	0.81	0.88
248.70	26/09/2018	Whitehead/Elton	Incoming	0	0	0.77	0.86
248.70	26/09/2018	Whitehead/Elton	Outgoing	0	0	0.78	0.96
248.80	26/09/2018	Whitehead Dist.	Firehall	0	0	0.77	0.88
248.80	26/09/2018	Whitehead Dist.	Dungannon	0	0	0.64	0.83
63.50	26/09/2018	Elton Dist.	PR #2	0	0	0.72	0.80
63.50	26/09/2018	Elton Dist.	Elton Office	0	0	0.63	0.76
248.70	10/10/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	10/10/2018	Whitehead/Elton	Treated	0	0	0.78	0.94
248.70	10/10/2018	Whitehead/Elton	Incoming	0	0	0.53	0.57
248.70	10/10/2018	Whitehead/Elton	Outgoing	0	0	0.64	0.71
248.80	10/10/2018	Whitehead Dist.	Firehall	0	0	0.58	0.63
248.80	10/10/2018	Whitehead Dist.	Dungannon	0	0	0.55	0.68
63.50	10/10/2018	Elton Dist.	PR #2	0	0	0.70	0.77
63.50	10/10/2018	Elton Dist.	Elton Office	0	0	0.54	0.63
248.70	24/10/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	24/10/2018	Whitehead/Elton	Treated	0	0	1.30	1.45
248.70	24/10/2018	Whitehead/Elton	Incoming	0	0	1.23	1.33
248.70	24/10/2018	Whitehead/Elton	Outgoing	0	0	1.00	1.05
248.80	24/10/2018	Whitehead Dist.	Firehall	0	0	1.23	1.43
248.80	24/10/2018	Whitehead Dist.	Dungannon	0	0	1.29	1.44
63.50	24/10/2018	Elton Dist.	PR #2	0	0	1.15	1.25
63.50	24/10/2018	Elton Dist.	Elton Office	0	0	0.87	0.98
248.70	08/11/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	08/11/2018	Whitehead/Elton	Treated	0	0	1.10	1.36
248.70	08/11/2018	Whitehead/Elton	Incoming	0	0	0.70	0.75
248.70	08/11/2018	Whitehead/Elton	Outgoing	0	0	0.68	0.73
248.80	08/11/2018	Whitehead Dist.	Firehall	0	0	0.90	1.01
248.80	08/11/2018	Whitehead Dist.	Dungannon	0	0	0.77	0.91
63.50	08/11/2018	Elton Dist.	PR #2	0	0	0.65	0.72

Community Code	Collection Date	System	Location	Total Coliforms	E.Coli	Free Chlorine	Total Chlorine
63.50	08/11/2018	Elton Dist.	Elton Office	0	0	0.62	0.66
248.70	21/11/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	21/11/2018	Whitehead/Elton	Treated	0	0	0.94	1.07
248.70	21/11/2018	Whitehead/Elton	Incoming	0	0	0.57	0.62
248.70	21/11/2018	Whitehead/Elton	Outgoing	0	0	0.93	1.00
248.80	21/11/2018	Whitehead Dist.	Firehall	0	0	0.78	0.84
248.80	21/11/2018	Whitehead Dist.	Dungannon	0	0	0.86	0.94
63.50	21/11/2018	Elton Dist.	PR #2	0	0	0.84	0.93
63.50	21/11/2018	Elton Dist.	Elton Office	0	0	1.13	1.16
248.70	05/12/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	05/12/2018	Whitehead/Elton	Treated	0	0	1.15	1.28
248.70	05/12/2018	Whitehead/Elton	Incoming	0	0	1.15	1.21
248.70	05/12/2018	Whitehead/Elton	Outgoing	0	0	0.87	0.96
248.80	05/12/2018	Whitehead Dist.	Firehall	0	0	1.06	1.15
248.80	05/12/2018	Whitehead Dist.	Dungannon	0	0	1.11	1.22
63.50	05/12/2018	Elton Dist.	PR #2	0	0	0.74	0.77
63.50	05/12/2018	Elton Dist.	Elton Office	0	0	0.88	0.91
248.70	19/12/2018	Whitehead/Elton	Raw	0	0	0.00	0.00
248.70	19/12/2018	Whitehead/Elton	Treated	0	0	1.10	1.26
248.70	19/12/2018	Whitehead/Elton	Incoming	0	0	1.28	1.40
248.70	19/12/2018	Whitehead/Elton	Outgoing	0	0	1.05	1.10
248.80	19/12/2018	Whitehead Dist.	Firehall	0	0	1.12	1.25
248.80	19/12/2018	Whitehead Dist.	Dungannon	0	0	1.17	1.29
63.50	19/12/2018	Elton Dist.	PR #2	0	0	0.89	1.02
63.50	19/12/2018	Elton Dist.	Elton Office	0	0	0.97	1.10

Appendix B

2018 Water Use Report

Monitoring Well Graph Report

Manitoba Sustainable Development Water Licensing Section Box 16 – 200 Saulteaux Crescent Winnipeg MB R3J 3W3 wateruse@gov.mb.ca



Annual Water Use Report for 20 18

DESIGN PUMPING RATE: LITRES PER SECOND 22.7 OR OTHER (SPECIFY)	S NA	ME: White	ehead Elton	n Regional W	/ater Co-op	erative Inc.	LICENCE	NO. PWS-11	1-487
SURFACE WATER	CEA	ADDRESS	General De	elivery, Forre	est Mb. R0	< 0W0	PHONE N	io. 204 728	7834
COLORIDOR OF PUMP (OR WELL): QUARTER	= WA	ATER SUPPL'	Y (CHECK ONE)	1	\boxtimes	WELL			
SE						SURFACE WATER	٠		
QUARTER SECTION TOWNSHIP RANGE OR OTHER	OF F	PUMP (OR WI	ELL):				(Name of River, Cre	ek, etc.)	
DESIGN PUMPING RATE: LITRES PER SECOND			OF THE PERSON NAMED IN COLUMN TWO	TOWNSHIP	RANGE	E	OR OT	HER (SPECIFY)	
DESIGN PUMPING RATE: LITRES PER SECOND 22.7 OR OTHER (SPECIFY) DESIGN PUMPING RATE: LITRES PER SECOND 22.7 OR OTHER (SPECIFY) DECAMETRES			21	10	21		W1		
DECAMETRES DECAMETRES DECAMETRES									
DECAMETRES DECAMETRES DECAMETRES					22.7				
LITRES	MPI	NG RATE:	LITRES P	ER SECOND	22.1	OR OTHE	R (SPECIFY)		
LITRES		QUANTITIE	S OF WATER IN	TARLE BELOW	EXPRESSED IN	(CHECK ONE)			
METER READING DECEMBER 31/20_17 321592					EXPRESSED III	(CHECK ONL)			
MARCH SALLY SALLY SEBRUARY SALLY CONSUMPTION METER READING DAILY CONSUMPTION METER READING CONSUMPTION CONSUMPTION CONSUMPTION CONSUMPTION CONSUMPTION CONSUMPTION CONSUMPTION CONSUMPTION CONSUMPTION CONSUMP		☐ LIKE	ES 📋	DECAMETRES					
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29 338219 592 - - 372739 516 30 338769 550 - - 373316 577		337094	579	354859				390352	628
30 338769 550 373316 577		337627	533	355468	609			390987	635
000100	_		592	-	-			391529	542
31 339357 588 - - 373921 605	-			-				392188	659
10100		339357	588	-				-	-
TOTAL 17756 17765 16111 16111 18453 18453		17756	17765	16111	16111	18453	18453	18267	18267

	MA	AY	JUNE		JULY		AUGUST	
DAY OF MONTH	METER READING	DAILY	METER READING	DAILY	METER READING	DAILY	METER READING	DAILY
1	392803		417,545	777		717		
2	393395	615 592	418,200	655	445275	821	471121	797
3			418,744	544	446096		471961	840
4	394008	613		705	446847	751	472788	827
5	394655	647	419,449 420,304	855	447808	961	473732	944
6	395427	772		790	448543	735	474442	710
	396106	679	421,094	903	449541	998	475121	679
7	396767	661	421,997		450499	958	475928	807
8	397545	778	423,043	1,046	451290	791	476814	886
9	398284	739	424,097	1,054	452044	754	477778	964
10	398998	714	424,948	851	453013	969	478838	1060
11	399778	780	425,614	666	453945	932	479865	1027
12	400546	768	426,553	939	454731	786	480719	854
13	401374	828	427,448	895	455771	1040	481651	932
14	402280	906	428,451	1,003	456735	964	482609	958
15	403216	936	429,316	865	457436	701	483542	933
16	404093	877	430,422	1,106	458210	774	484454	912
17	404892	799	431,255	833	459065	855	485337	883
18	405578	686	432,278	1,023	460043	978	486275	938
19	406407	829	433,376	1,098	460990	947	487049	774
20	407217	810	434,596	1,220	461857	867	487804	755
21	408272	1055	435,848	1,252	462926	1069	488697	893
22	409254	982	436,918	1,070	463705	779	489574	877
23	410329	1075	437,939	1,021	464282	577	490539	965
24	411248	919	438,890	951	464964	682	491395	856
25	411942	694	439,800	910	465636	672	492550	1155
26	412686	744	440,811	1,011	466384	748	493071	521
27	413618	932	441,754	943	467152	768	493599	528
28	414447	829	442,841	1,087	468138	986	494457	858
29	415210	763	443,701	860	468732	594	494918	461
30		804	444,558	857	469362	630	495581	663
30					700002	000		
30	416014			-	470324	962	496363	782
	416768 24580	754 24580	27790	27790	470324 25766	962 25766	496363 26039	782 26039
31 TOTAL	416768 24580 SEPTE	754 24580 MBER	осто	27790 DBER	25766 NOVE	25766 MBER	26039 DECE	26039 MBER DAILY
DAY OF MONTH	416768 24580	754 24580 MBER DAILY CONSUMPTION	OCTO METER READING	27790 DBER DAILY CONSUMPTION	25766 NOVE	25766 MBER DAILY CONSUMPTION	26039 DECE METER READING	MBER DAILY CONSUMPTION
DAY OF MONTH	416768 24580 SEPTE METER READING 497,157	754 24580 MBER DAILY CONSUMPTION 794	OCTO	27790 DBER DAILY CONSUMPTION 621	25766 NOVE METER READING 536,083	25766 MBER DAILY CONSUMPTION 530	DECE METER READING 555131	MBER DAILY CONSUMPTION 784
DAY OF MONTH 1 2	416768 24580 SEPTE	754 24580 MBER DAILY CONSUMPTION 794 531	OCTO METER READING 517373 518004	DBER DAILY CONSUMPTION 621 631	25766 NOVE METER READING 536,083 536,706	25766 MBER DAILY CONSUMPTION 530 623	DECE METER READING 555131 555608	MBER DAILY CONSUMPTION 784 477
DAY OF MONTH 1 2 3	416768 24580 SEPTE METER READING 497,157	754 24580 MBER DAILY CONSUMPTION 794 531 701	OCTO METER READING 517373 518004 518581	27790 DBER DAILY CONSUMPTION 621 631 577	25766 NOVE METER READING 536,083 536,706 537,295	25766 MBER DAILY CONSUMPTION 530 623 589	DECE METER READING 555131 555608 556128	26039 MBER DAILY CONSUMPTION 784 477 520
DAY OF MONTH 1 2 3 4	416768 24580 SEPTE METER READING 497,157 497,688	754 24580 MBER DAILY CONSUMPTION 794 531 701 624	OCTO METER READING 517373 518004 518581 519148	27790 DBER DAILY CONSUMPTION 621 631 577 567	25766 NOVEI METER READING 536,083 536,706 537,295 537,936	25766 MBER DAILY CONSUMPTION 530 623 589 641	DECEI METER READING 555131 55608 556128 556745	26039 MBER DAILY CONSUMPTION 784 477 520 617
31 101AL DAY OF MONTH 1 2 3 4 5	416768 24580 SEPTE METER READING 497,157 497,688 498,389	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536	OCTO METER READING 517373 518004 518581	27790 DBER DAILY CONSUMPTION 621 631 577 567 629	25766 NOVEI METER READING 536,083 536,706 537,295 537,936 538,416	25766 MBER DAILY CONSUMPTION 530 623 589	DECEI METER READING 555131 555608 556128 556745 557383	26039 MBER DAILY CONSUMPTION 784 477 520
31 101AL DAY OF MONTH 1 2 3 4 5 6	416768 24580 SEPTE METER READING 497,157 497,688 498,389 499,013	754 24580 MBER DAILY CONSUMPTION 794 531 701 624	OCTO METER READING 517373 518004 518581 519148	27790 DBER DAILY CONSUMPTION 621 631 577 567	25766 NOVEI METER READING 536,083 536,706 537,295 537,936	25766 MBER DAILY CONSUMPTION 530 623 589 641	DECE METER READING 555131 555608 556128 556745 557383 558016	26039 MBER DAILY CONSUMPTION 784 477 520 617
31 TOTAL DAY OF MONTH 1 2 3 4 5 6 7	416768 24580 SEPTE METER READING 497,157 497,688 498,389 499,013 499,549	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728 804	OCTO METER READING 517373 518004 518581 519148 519777	27790 DBER DAILY CONSUMPTION 621 631 577 567 629 634 538	25766 NOVE METER READING 536,083 536,706 537,295 537,936 538,416 538,991 539,527	25766 MBER DAILY CONSUMPTION 530 623 589 641 480	DECE METER READING 555131 555608 556128 556745 557383 558016 558674	26039 MBER DAILY CONSUMPTION 784 477 520 617 638
31 TOTAL DAY OF MONTH 1 2 3 4 5 6 7	416768 24580 SEPTE METER READING 497,157 497,688 498,389 499,013 499,549 500,277	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728	OCTO METER READING 517373 518004 518581 519148 519777 520411	27790 DBER DAILY CONSUMPTION 621 631 577 567 629 634	25766 NOVE METER READING 536,083 536,706 537,295 537,936 538,416 538,951 539,527 540,179	25766 MBER DAILY CONSUMPTION 530 623 589 641 480 575	DECE METER READING 555131 555608 556128 556745 557383 558016 558674 559322	26039 MBER DAILY CONSUMPTION 784 477 520 617 638 633
31 TOTAL DAY OF MONTH 1 2 3 4 5 6 7 8 9	416768 24580 SEPTE METER READING 497,157 497,688 498,389 499,013 499,549 500,277 501,081	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728 804 685 605	OCTO METER READING 517373 518004 518581 519148 519777 520411 520949	27790 DBER DAILY CONSUMPTION 621 631 577 567 629 634 538	25766 NOVE METER READING 536,083 536,706 537,295 537,936 538,416 538,991 539,527	25766 MBER DAILY CONSUMPTION 530 623 589 641 480 575 536	DECE METER READING 555131 555608 556128 556745 557383 558016 558674 559322 559956	26039 MBER DAILY CONSUMPTION 784 477 520 617 638 638 633 658
31 TOTAL DAY OF MONTH 1 2 3 4 5 6 6 7 8 9	416768 24580 SEPTE METER READING 497,157 497,688 498,389 499,013 499,549 500,277 501,081 501,766	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728 804 685	OCTO METER READING 517373 518004 518581 519148 519777 520411 520949 521564	27790 DBER DAILY CONSUMPTION 621 577 567 629 634 538 615	25766 NOVE METER READING 536,083 536,706 537,295 537,936 538,416 538,951 539,527 540,179	25766 MBER DAILY CONSUMPTION 530 623 589 641 480 575 536 652	DECE METER READING 555131 555608 556128 556745 557383 558016 558674 559322 559956 560597	26039 MBER DAILY CONSUMPTION 7520 617 638 638 658 648
31 TOTAL DAY OF MONTH 1 2 3 4 5 6 7 8 9 10 11	416768 24580 SEPTE METER READING 497,157 497,688 499,013 499,549 500,277 501,081 501,766 502,371	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728 804 685 605	OCTO METER READING 517373 518004 518581 519148 519777 520411 520949 521564 522220	27790 DBER DAILY CONSUMPTION 621 631 577 567 629 634 538 615 656	25766 NOVE METER READING 536,083 536,706 537,295 537,936 538,416 538,991 539,527 540,179 540,851	25766 MBER DAILY CONSUMPTION 530 623 589 641 480 575 536 652 672	DECE METER READING 555131 555608 556128 556745 557383 558016 558674 559322 559956	26039 MBER DAILY CONSUMPTION 784 477 520 617 638 633 658 648 634
31 TOTAL DAY OF MONTH 1 2 3 4 5 6 7 8 9 10 11 11 12	416768 24580 SEPTE METER READING 497,157 497,688 498,389 499,013 499,549 500,277 501,081 501,766 502,371 503,101	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728 804 685 605 730	OCTO METER READING 517373 518004 518581 519148 519777 520411 520949 521564 522220 522910	27790 DBER DAILY CONSUMPTION 621 631 577 567 629 634 538 615 656 690	25766 NOVE METER READING 536,083 536,706 537,295 537,936 538,416 538,991 539,527 540,179 540,851 541,505	25766 MBER DAILY CONSUMPTION 530 623 589 641 480 575 536 652 672 654	DECE METER READING 555131 555608 556128 556745 557383 558016 558674 559322 559956 560597	26039 MBER DAILY CONSUMPTION 784 477 520 617 638 633 658 648 634 641
31 TOTAL DAY OF MONTH 1 2 3 4 5 6 7 8 9 10 11	### 416768 24580 **SEPTE* METER READING* 497,157 497,688 498,389 499,013 499,549 500,277 501,081 501,766 502,371 503,101 503,838	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728 804 685 605 730 737	OCTO METER READING 517373 518004 518581 519148 519777 520411 520949 521564 522220 522910 523551	27790 DBER DAILY CONSUMPTION 621 631 577 567 629 634 538 615 656 690 641	25766 NOVE METER READING 536,083 536,706 537,295 537,936 538,416 538,991 539,527 540,179 540,851 541,505 542,059	25766 MBER DAILY CONSUMPTION 530 623 589 641 480 575 536 652 672 654 554	DECE METER READING 555131 555608 556128 556745 557383 558016 558674 559956 560597 561304	26039 MBER DAILY CONSUMPTION 784 477 520 617 638 633 658 648 641 707
31 TOTAL DAY OF MONTH 1 2 3 4 5 6 7 8 9 10 11 11 12	416768 24580 SEPTE METER READING 497,157 497,688 498,389 499,013 499,549 500,277 501,081 501,766 502,371 503,101 503,838 504,646	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728 804 685 605 730 737 808	OCTO METER READING 517373 518004 518581 519148 519777 520411 520949 521564 522220 522910 523551 524190	27790 DBER DAILY CONSUMPTION 621 631 577 567 629 634 538 615 656 690 641 639	25766 NOVE METER READING 536,083 536,706 537,295 537,936 538,416 538,951 539,527 540,179 540,851 541,505 542,059 542,606	25766 MBER DAILY CONSUMPTION 530 623 589 641 480 575 652 672 654 554 547	DECE METER READING 555131 555608 556128 556745 557383 558016 558674 559322 559956 560597 561304 561880	26039 MBER DAILY CONSUMPTION 784 477 638 633 658 648 634 641 707 576
31 TOTAL DAY OF MONTH 1 2 3 4 5 6 7 8 9 10 11 11 12 13	416768 24580 SEPTE METER READING 497,157 497,688 499,013 499,549 500,277 501,081 501,766 502,371 503,101 503,838 504,646 505,415	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728 804 685 605 730 737 808 769	OCTO METER READING 517373 518004 518581 519148 519777 520411 520949 521564 522220 522910 523551 524190 525020	27790 DBER DAILY CONSUMPTION 621 631 577 567 629 634 538 615 656 690 641 639 830	25766 NOVE METER READING 536,083 536,706 537,295 537,936 538,416 538,991 539,527 540,179 540,851 541,505 542,059 542,606 543,248	25766 MBER DAILY CONSUMPTION 530 623 589 641 480 575 536 652 672 654 554 547 642	DECE METER READING 555131 555608 556128 556745 557383 558074 559956 560597 561304 561880 562528	26039 MBER DAILY CONSUMPTION 784 477 520 617 638 633 658 648 634 641 707 576 648
31 TOTAL DAY OF MONTH 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	416768 24580 SEPTE METER READING 497,157 497,688 498,389 499,013 499,549 500,277 501,081 501,766 502,371 503,101 503,838 504,646 505,415 506,102	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728 804 685 605 730 737 808 769 687	OCTO METER READING 517373 518004 518581 519148 519777 520411 520949 521564 522220 522910 523551 524190 525020 525511	27790 DBER DAILY CONSUMPTION 621 631 577 567 629 634 538 615 656 690 641 639 830 491	25766 NOVE METER READING 536,083 536,706 537,295 537,295 537,396 538,416 538,991 539,527 540,179 540,851 541,505 542,059 542,606 543,248 543,852	25766 MBER DAILY CONSUMPTION 530 623 589 641 480 575 536 652 672 654 554 547 642 604	DECE METER READING 555131 555608 556128 556745 557383 558016 558674 559322 559956 560597 561304 561880 562528 563169	26039 MBER DAILY CONSUMPTION 784 477 520 617 638 633 658 634 641 707 576 648 641
31 TOTAL DAY OF MONTH 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	416768 24580 SEPTE METER READING 497,157 497,688 498,389 499,013 499,549 500,277 501,081 501,766 502,371 503,101 503,838 504,646 505,415 506,102 507,079	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728 804 685 605 730 737 808 769 687 977	OCTO METER READING 517373 518004 518581 519148 519777 520411 520949 521564 522220 522910 523551 524190 525020 525511 526101	27790 DBER DAILY CONSUMPTION 621 631 577 567 629 634 538 615 656 690 641 639 830 491 590	25766 NOVE METER READING 536,083 536,706 537,295 537,936 538,416 538,991 539,527 540,179 540,851 541,505 542,059 542,606 543,248 543,852 544,527	25766 MBER DAILY CONSUMPTION 530 623 589 641 480 575 536 652 672 654 547 642 604 675	DECE METER READING 555131 555608 556128 556745 558674 558674 559322 559956 560597 561304 561880 562528 563169 563864	26039 MBER DAILY CONSUMPTION 784 477 520 617 638 633 658 648 634 641 707 576 648 641 695
31 TOTAL DAY OF MONTH 1 2 3 4 5 6 6 7 8 9 10 11 12 13 13 14 15 16 16 17 18	416768 24580 SEPTE METER READING 497,157 497,688 498,389 499,013 499,549 500,277 501,081 501,766 502,371 503,101 503,838 504,646 505,415 506,102 507,079 507,762	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728 804 685 605 730 737 808 769 687 977 683	OCTO METER READING 517373 518004 518581 519148 519777 520411 520949 521564 522220 522910 523551 524190 525020 525511 526101 526682	27790 DBER DALLY CONSUMPTION 621 631 577 567 629 634 538 615 656 690 641 639 830 491 590 581	25766 NOVEI METER READING 536,083 536,706 537,295 537,936 538,416 538,951 540,179 540,851 541,505 542,059 542,066 543,248 543,248 544,527 545,183	25766 MBER DAILY CONSUMPTION 530 623 589 641 480 575 536 652 672 654 554 547 642 604 675 656	DECE METER READING 555131 555608 556128 556745 557383 558016 558674 559322 559956 560597 561304 561880 562528 563169 563864 564628	26039 MBER DAILY CONSUMPTION 784 477 638 633 633 634 641 707 576 648 641 695 764
31 TOTAL DAY OF MONTH 1 2 3 4 4 5 6 6 7 7 8 9 10 11 12 13 14 15 16 16 17 7	416768 24580 SEPTE METER READING 497,157 497,688 498,389 499,013 499,549 500,277 501,081 501,766 502,371 503,101 503,838 504,646 505,415 506,102 507,079 507,762 508,394 509,093	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728 804 685 605 730 730 737 808 769 687 977 683 632	OCTO METER READING 517373 518004 518581 519148 519777 520411 520949 521564 522220 522910 523551 524190 525020 525511 526101 526682 527299	27790 DBER DAILY CONSUMPTION 621 631 577 567 629 634 538 615 656 690 641 639 830 491 590 581 617	25766 NOVE METER READING 536,083 536,706 537,295 537,936 538,416 538,991 539,527 540,179 540,851 541,505 542,059 542,606 543,248 543,852 544,527 545,183 545,919	25766 MBER DAILY CONSUMPTION 530 623 589 641 480 575 536 652 672 654 554 547 642 604 675 656 736	DECE METER READING 555131 555608 556128 556745 557383 558074 559956 560597 561304 561880 562528 563169 563864 564628 565140	26039 MBER DAILY CONSUMPTION 784 477 520 617 638 633 658 648 634 641 707 576 648 641 695 764 512
31 TOTAL DAY OF MONTH 1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	416768 24580 SEPTE METER READING 497,157 497,688 499,013 499,549 500,277 501,081 501,766 502,371 503,101 503,838 504,646 505,415 506,102 507,079 507,762 508,394	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728 804 685 605 730 737 808 769 687 977 683 632 699	OCTO METER READING 517373 518004 518581 519148 519777 520411 520949 521564 522220 522910 523551 524190 525020 525511 526101 526682 527299 527935	27790 DBER DAILY CONSUMPTION 621 631 577 567 629 634 538 615 656 690 641 639 830 491 590 581 617 636	25766 NOVE METER READING 536,083 536,706 537,295 537,295 537,936 538,416 538,991 539,527 540,179 540,851 541,505 542,059 542,606 543,248 543,852 544,527 545,183 545,919 546,479	25766 MBER DAILY CONSUMPTION 530 623 589 641 480 575 536 652 672 654 554 547 642 604 675 656 736 556 560	DECE METER READING 555131 555608 556128 556745 557383 558016 558674 559322 559956 560597 561304 561880 562528 563169 563864 564628 565140 565795	26039 MBER DAILY CONSUMPTION 784 477 520 617 638 633 658 634 641 707 576 648 641 695 764 512 655
DAY OF MONTH 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	416768 24580 SEPTE METER READING 497,157 497,688 498,389 499,013 499,549 500,277 501,081 501,766 502,371 503,101 503,838 504,646 505,415 506,102 507,079 507,762 508,394 509,093 509,747 510,442	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728 804 685 605 730 737 808 769 687 977 683 632 699 654	OCTO METER READING 517373 518004 518581 519148 519777 520411 520949 521564 522220 522910 523551 524190 525020 525511 526101 526682 527299 527935 528529	DBER DAILY CONSUMPTION 621 631 577 567 629 634 538 615 656 690 641 639 830 491 590 581 617 636 594	25766 NOVE METER READING 536,083 536,706 537,295 537,936 538,416 538,991 539,527 540,179 540,851 541,505 542,059 542,606 543,248 543,852 544,527 545,183 545,919 546,479	25766 MBER DAILY CONSUMPTION 530 623 589 641 480 575 536 652 672 654 554 547 642 604 675 656 736 560 633 622	DECE METER READING 555131 555608 556128 556745 557383 558016 558674 559322 559956 560597 561304 561880 562528 563169 563864 564628 564628 565140 565795 566432	26039 MBER DAILY CONSUMPTION 784 4777 520 617 638 633 658 648 634 641 707 576 648 641 695 764 512 655 637
31 TOTAL DAY OF MONTH 1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	416768 24580 SEPTE METER READING 497,157 497,688 499,013 499,549 500,277 501,081 501,766 502,371 503,101 503,838 504,646 505,415 506,102 507,079 507,762 508,394 509,093 509,747 510,442 510,914	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728 804 685 605 730 737 808 769 687 977 683 632 699 654 695	OCTO METER READING 517373 518004 518581 519148 519777 520411 520949 521564 522220 522910 523551 524190 525020 525511 526101 526682 527299 527935 528529 529129 529628	27790 DBER DAILY CONSUMPTION 621 631 577 567 629 634 538 615 656 690 641 639 830 491 590 581 617 636 594 600	25766 NOVEI METER READING 536,083 536,706 537,295 537,936 538,416 538,991 539,527 540,179 540,851 541,505 542,059 542,066 543,248 543,852 544,527 545,183 545,919 546,479 547,112 547,734	25766 MBER DAILY CONSUMPTION 530 623 589 641 480 575 536 652 672 654 554 554 547 642 604 675 656 736 560 633 622 658	DECE METER READING 555131 555608 556128 556745 557383 558016 558674 559322 559956 560597 561304 561880 562528 563169 563864 564628 565140 565795 566432 567073	26039 MBER DAILY CONSUMPTION 784 477 520 617 638 633 658 648 634 641 707 576 648 641 695 764 512 655 637 641 616
DAY OF MONTH 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	416768 24580 SEPTE METER READING 497,157 497,688 498,389 499,013 499,549 500,277 501,081 501,766 502,371 503,101 503,838 504,646 505,415 506,102 507,079 507,762 508,394 509,093 509,747 510,442 510,914 511,754	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728 804 685 605 730 737 808 769 687 977 683 632 699 654 695 472 840	OCTO METER READING 517373 518004 518581 519148 519777 520411 520949 521564 522220 522910 523551 524190 525020 525511 526101 526682 527299 527935 528529 529129 529628 530299	27790 DBER DAILY CONSUMPTION 621 631 577 567 629 634 538 615 656 690 641 639 830 491 590 581 617 636 594 600 499	25766 NOVE METER READING 536,083 536,706 537,295 537,295 537,936 538,416 538,991 539,527 540,179 540,851 541,505 542,059 542,606 543,248 543,852 544,527 545,183 545,919 546,479 547,712 547,734 548,392 549,096	25766 MBER DAILY CONSUMPTION 530 623 589 641 480 575 536 652 672 654 554 547 642 604 675 656 736 560 633 622 658 704	DECE METER READING 555131 5556028 556128 556745 557383 558074 559956 560597 561304 561880 562528 563169 563864 564628 565795 566432 567073 567689	26039 MBER DAILY CONSUMPTION 784 477 520 617 638 633 658 648 641 707 576 648 641 695 764 512 655 637 641 616 797
31 TOTAL DAY OF MONTH 1 2 3 4 4 5 6 7 7 8 9 10 11 11 12 13 13 14 15 16 17 18 19 20 21 21 22	416768 24580 SEPTE METER READING 497,157 497,688 498,389 499,013 499,549 500,277 501,081 501,766 502,371 503,101 503,838 504,646 505,415 506,102 507,079 507,762 508,394 509,093 509,747 510,442 510,914 511,754 512,377	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728 804 685 605 730 737 808 769 687 977 683 632 699 654 695 472 840 623	OCTO METER READING 517373 518004 518581 519148 519777 520411 520949 521564 522220 522910 523551 524190 5255511 526101 526682 527299 527935 528529 529129 529628 530299 530903	27790 DBER DAILY CONSUMPTION 621 631 577 567 629 634 538 615 656 690 641 639 830 491 590 581 617 636 594 600 499 671 604	25766 NOVEI METER READING 536,083 536,706 537,295 537,936 538,416 538,911 539,527 540,179 540,851 541,505 542,059 542,606 543,248 543,852 544,527 545,183 545,919 546,479 547,112 547,734 548,392 549,096 549,785	25766 MBER DAILY CONSUMPTION 530 623 589 641 480 575 536 652 672 654 554 547 642 604 675 656 736 656 736 656 736 652 672 658 704	DECE METER READING 555131 555608 556128 556745 557383 558016 558674 559322 559956 560597 561304 561880 562528 563169 563864 564628 565140 565795 566432 567073 567689 568486	26039 MBER DAILY CONSUMPTION 784 477 520 617 638 633 668 648 634 641 707 576 648 641 695 764 512 665 637 641 616 797 598
DAY OF MONTH 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	416768 24580 SEPTE METER READING 497,157 497,688 498,389 499,013 499,549 500,277 501,081 501,766 502,371 503,101 503,838 504,646 505,415 506,102 507,079 507,762 508,394 509,093 509,747 510,442 510,914 511,754 512,377 512,919	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728 804 685 605 730 737 808 769 687 977 683 632 699 654 695 472 840 623 542	OCTO METER READING 517373 518004 518581 519148 519777 520411 520949 521564 522220 522910 523551 524190 525020 525511 526101 526682 527299 527935 528529 529129 529628 530299 530903 531521	27790 DBER DAILY CONSUMPTION 621 631 577 567 629 634 538 615 656 690 641 639 830 491 590 581 617 636 690 491 690 691 690 690 690 690 690 690 690 690 690 690	25766 NOVEI METER READING 536,083 536,706 537,295 537,936 538,416 538,991 540,851 541,505 542,059 542,066 543,248 543,852 544,527 545,183 545,919 546,479 547,712 547,734 548,392 549,096 549,785 550,547	25766 MBER DAILY CONSUMPTION 530 623 589 641 480 575 536 652 672 654 554 547 642 604 675 656 736 650 633 622 658 704 689 762	DECE METER READING 555131 555608 556128 556745 557383 558016 558674 559322 559956 560597 561304 561880 562528 563169 563864 564628 565140 565795 566432 567073 567689 568486 569084 569603	26039 MBER DAILY CONSUMPTION 784 477 520 617 638 633 658 648 634 641 707 576 648 641 695 764 512 655 637 641 616 797 598 519
DAY OF MONTH 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	416768 24580 SEPTE METER READING 497,157 497,688 499,013 499,549 500,277 501,081 501,766 502,371 503,101 503,838 504,646 505,415 506,102 507,079 507,762 508,394 509,093 509,747 510,442 510,914 511,754 512,377 512,919 513,510	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728 804 685 605 730 737 808 769 687 977 683 632 699 654 695 472 840 623 542 591	OCTO METER READING 517373 518004 518581 519148 519777 520411 520949 521564 522220 523551 524190 525521 526101 526682 527299 527935 528529 529129 529628 530299 530903 531521 532110	27790 DBER DAILY CONSUMPTION 621 631 577 567 629 634 538 615 656 690 641 639 830 491 590 581 617 636 594 600 499 671 604 618	25766 NOVE METER READING 536,083 536,706 537,295 537,936 538,416 538,991 539,527 540,179 540,851 541,505 542,059 542,606 543,248 543,852 544,527 545,183 545,919 546,479 547,112 547,734 548,392 549,096 549,785 550,547 551,184	25766 MBER DAILY CONSUMPTION 530 623 589 641 480 575 536 652 672 654 554 547 642 604 675 656 736 560 633 622 658 704 689 762 637	DECE METER READING 555131 555608 556128 556745 557383 558016 558674 559922 559956 560597 561304 561880 562528 563169 563864 564628 565795 566432 567073 567689 568486 569084 569603 570146	26039 MBER DAILY CONSUMPTION 784 477 520 617 638 633 658 648 634 641 707 576 648 641 695 764 512 655 637 641 616 797 598 519
DAY OF MONTH 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	416768 24580 SEPTE METER READING 497,157 497,688 498,389 499,013 499,549 500,277 501,081 503,101 503,838 504,646 505,415 506,102 507,079 507,762 508,394 509,093 509,747 510,442 510,914 511,754 512,377 512,919 513,510 514,140	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728 804 685 605 730 737 808 769 687 977 683 632 699 654 695 472 840 623 542 591 630	OCTO METER READING 517373 518004 518581 519148 519777 520411 520949 521564 522220 522910 523551 524190 525620 525511 526101 526682 527299 527935 528529 529129 530903 531521 532110 532714	27790 DBER DAILY CONSUMPTION 621 631 577 667 629 634 538 615 656 690 641 639 830 491 590 581 617 636 594 600 499 671 604 618 589 604	25766 NOVE METER READING 536,083 536,706 537,295 537,936 538,416 538,991 539,527 540,179 540,851 541,505 542,059 542,606 543,248 543,852 544,527 545,183 545,919 546,479 547,712 547,734 548,392 549,096 549,785 550,547 551,184 551,777	25766 MBER DAILY CONSUMPTION 530 623 589 641 480 575 536 652 672 654 554 547 642 604 675 656 736 560 633 622 658 704 689 762 637 593	DECE METER READING 555131 555608 556128 556745 557383 558016 558674 559956 560597 561304 561880 562528 563169 563864 564628 565140 565795 566432 567073 567689 568486 569084 569084 569084 569084 570781	26039 MBER DAILY CONSUMPTION 784 4777 520 617 638 633 658 648 634 641 707 576 648 641 695 764 512 655 637 641 616 797 598 519 543 635
DAY OF MONTH 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	416768 24580 SEPTE METER READING 497,157 497,688 498,389 499,013 499,549 500,277 501,081 501,766 502,371 503,101 503,838 504,646 505,415 506,102 507,079 507,762 508,394 509,093 509,747 510,442 510,914 511,754 512,377 512,919 513,510 514,140 514,805	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728 804 685 605 730 737 808 769 687 977 683 632 699 654 695 472 840 623 542 591 630 665	OCTO METER READING 517373 518004 518581 519148 519777 520411 520949 521564 522220 522910 523551 524190 5255511 526101 526682 527299 527935 528529 529129 529628 530299 530903 531521 532110 532714	27790 DBER DAILY CONSUMPTION 621 631 577 662 634 538 615 656 690 641 639 830 491 590 581 617 636 594 600 499 671 604 618 589 604 601	25766 NOVEI METER READING 536,083 536,706 537,295 537,936 538,416 538,911 539,527 540,179 540,851 541,505 542,059 542,606 543,248 543,852 544,527 545,183 545,919 546,479 547,712 547,734 548,392 549,096 549,785 550,547 551,184 551,777 552,503	25766 MBER DAILY CONSUMPTION 530 623 589 641 480 575 656 652 672 654 547 642 604 675 656 736 663 662 673 622 658 704 689 762 637 593	DECE METER READING 555131 555608 556128 556745 557383 558016 558674 559322 559956 560597 561304 561880 562528 563169 563864 564628 565740 565795 566432 567073 567689 568486 569084 569084 569084 569084 569084 56970781 571333	26039 MBER DAILY CONSUMPTION 784 477 638 633 658 648 633 658 648 634 641 707 576 648 641 695 764 512 655 637 641 616 797 598 519 543 635 552
DAY OF MONTH 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	416768 24580 SEPTE METER READING 497,157 497,688 498,389 499,013 499,549 500,277 501,081 501,766 502,371 503,101 503,838 504,646 505,415 506,102 507,079 507,762 508,394 509,093 509,747 510,442 510,914 511,754 512,377 512,919 513,510 514,140 514,805 515,464	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728 804 685 605 730 737 808 769 687 977 683 632 699 654 695 472 840 623 542 591 630 665 659	OCTO METER READING 517373 518004 518581 519148 519777 520411 520949 521564 522220 522910 523551 524190 525020 525511 526101 526682 527299 529529 529129 529628 529129 529628 530299 530903 531521 532110 532714 533315 533819	27790 DBER DAILY CONSUMPTION 621 631 577 567 629 634 538 615 656 690 641 639 830 491 590 581 617 636 594 600 499 671 604 618 589 604 601 504	25766 NOVEI METER READING 536,083 536,706 537,295 537,936 538,416 538,991 540,851 541,505 542,059 542,059 542,606 543,248 543,852 544,527 545,183 545,919 546,479 547,712 547,734 548,392 549,096 549,785 550,547 551,184 551,777 552,503	25766 MBER DAILY CONSUMPTION 530 623 589 641 480 575 536 652 672 654 554 554 567 642 604 675 656 736 656 736 658 704 689 762 637 593 726 581	DECE METER READING 555131 555608 556128 556745 557383 558016 558674 559322 559956 560597 561304 561880 562528 563169 563864 564628 565140 565795 566432 567073 567689 568486 569084 569084 569084 569084 570781 571333 571972	26039 MBER DAILY CONSUMPTION 784 4777 520 617 638 633 658 648 634 641 707 576 648 641 695 764 512 655 637 641 616 797 598 519 543 635 552 639
DAY OF MONTH 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	416768 24580 SEPTE METER READING 497,157 497,688 498,389 499,013 499,549 500,277 501,081 501,766 502,371 503,101 503,838 504,646 505,415 506,102 507,079 507,762 508,394 509,093 509,747 510,442 510,914 511,754 512,377 512,919 513,510 514,140 514,805 515,464 516,155	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728 804 685 605 730 737 808 769 687 977 683 632 699 654 695 472 840 623 542 591 630 665 659 691	OCTO METER READING 517373 518004 518581 519148 519777 520411 520949 521564 522220 523551 524190 52552910 525511 526101 526682 527299 527935 528529 529129 529628 530299 530299 530299 531521 532110 532714 533315 533819 534429	27790 DBER DAILY CONSUMPTION 621 631 577 567 629 634 538 615 656 690 641 639 830 491 590 581 617 636 594 600 499 671 604 618 589 604 601 504 610	25766 NOVE METER READING 536,083 536,706 537,295 537,936 538,416 538,991 539,527 540,179 540,851 541,505 542,059 542,606 543,248 543,852 544,527 545,183 545,919 546,479 547,112 547,734 548,392 549,096 549,785 550,547 551,184 551,777 552,503 553,084 553,747	25766 MBER DAILY CONSUMPTION 530 623 589 641 480 575 536 652 672 654 554 554 567 665 736 666 736 666 736 660 633 622 658 704 689 762 637 593 726 581 663	DECE METER READING 555131 5556028 556128 556745 557383 558074 559956 560597 561304 561880 562528 563169 563864 564628 565795 566432 567073 567689 568486 569084 569084 569084 570781 571333 571972 572608	26039 MBER DAILY CONSUMPTION 784 477 520 617 638 633 658 648 634 641 707 576 648 641 695 764 512 655 637 641 616 797 598 519 543 635 552 639 636
31 TOTAL DAY OF MONTH 1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	416768 24580 SEPTE METER READING 497,157 497,688 498,389 499,013 499,549 500,277 501,081 501,766 502,371 503,101 503,838 504,646 505,415 506,102 507,079 507,762 508,394 509,093 509,747 510,442 510,914 511,754 512,377 512,919 513,510 514,140 514,805 515,464	754 24580 MBER DAILY CONSUMPTION 794 531 701 624 536 728 804 685 605 730 737 808 769 687 977 683 632 699 654 695 472 840 623 542 591 630 665 659	OCTO METER READING 517373 518004 518581 519148 519777 520411 520949 521564 522220 522910 523551 524190 525020 525511 526101 526682 527299 529529 529129 529628 529129 529628 530299 530903 531521 532110 532714 533315 533819	27790 DBER DAILY CONSUMPTION 621 631 577 567 629 634 538 615 656 690 641 639 830 491 590 581 617 636 594 600 499 671 604 618 589 604 601 504	25766 NOVEI METER READING 536,083 536,706 537,295 537,936 538,416 538,991 540,851 541,505 542,059 542,059 542,606 543,248 543,852 544,527 545,183 545,919 546,479 547,712 547,734 548,392 549,096 549,785 550,547 551,184 551,777 552,503	25766 MBER DAILY CONSUMPTION 530 623 589 641 480 575 536 652 672 654 554 554 567 642 604 675 656 736 656 736 658 704 689 762 637 593 726 581	DECE METER READING 555131 555608 556128 556745 557383 558016 558674 559322 559956 560597 561304 561880 562528 563169 563864 564628 565140 565795 566432 567073 567689 568486 569084 569084 569084 569084 570781 571333 571972	26039 MBER DAILY CONSUMPTION 784 477 520 617 638 633 658 648 634 641 695 764 512 655 637 641 616 797 598 519 543 635 552 639

