Whitehead Elton Regional Water Co-operative Inc.

2017 ANNUAL REPORT

Board of Directors

President; Donna Mitchell

> Vice President; Allan Sutherland

> > Secretary Treasurer;

Kathleen Steele

Directors;

Ross Farley, Cindy Izzard, Darryl Speers 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 (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 (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 Mike Beaule

1) Introduction

- 2) Description of Water System
 - 2.1 Water Supply Source
 - **2.2** Water Treatment Process
 - 2.3 Classification and Certification

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- 5) Drinking Water Safety Orders, Warnings and Charges
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- **9**) APPENDIX B Water Use & Monitoring Well Reports

1) Introduction:

The 2017 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, Elton 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.

2.1) 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.

2.2) 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 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 572.79 cubic meters per day, with the plant rated at a maximum daily flow of raw water of 1,080 cubic meters per day.

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 though 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.

2.3 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 being assessed by Manitoba Conservation for classification but is currently rated as 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.

3.0 List of Water Quality Standards

3.1 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 for 2017 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**.

3.2 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



Sustainable Development Office of Drinking Water 1129 Queens Ave, Brandon, MB R7A 1L9 T 204-570-1405 F 204-726-6567 christine.gerardy@gov.mb.ca www.manitoba.ca/drinkingwater

Sent via electronic mail: no hard copy to follow

January 23, 2018

PWS 248.80

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

Sent via email to: caowhitehead@mymts.net

2017 Annual Compliance Audit

Dear Ms. Izzard:

Please find enclosed the 2017 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).

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)

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 in 2018 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.

Earlier this past year, water suppliers received notification on changes to the water system assessment process and how those changes affect your water system. Please contact me if you require additional information about your assessment.

The 2017 Annual Compliance Audit is based on information submitted to this office. If your records conflict with the audit information, please call me at (204) 570-1405.

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Christine Gerardy Regional Drinking Water Officer

Enclosures

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



2017 Annual Compliance Audit

Water System: WHITEHEAD (WHITEHEAD ELTON REGIONAL) - PWS Code: 248.80 Water System Owner: Rural Municipality of Whitehead

Water System Operating Licence: PWS-12-521 Expiry Date: September 30, 2017

- 1) This report documents the Whitehead (Whitehead Elton Regional) Public Water System compliance for the period from January 1 to December 31, 2017.
- 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.

Summary of Non-Compliance Incidents:

None reported



Addendum A: Record of Non-Compliance Water System: WHITEHEAD (WHITEHEAD ELTON REGIONAL) - PWS Report period: January 1, 2017 to December 31, 2017.

Enforcement Action Taken

Date	Incident	Outcome
	None reported	
	None reported	

Disinfection Requirements

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

Incident	Outcome
None reported	

Operational Requirements

Date	Incident	Outcome
	None reported	

Page 2 of 2



Sustainable Development Office of Drinking Water 1129 Queens Ave, Brandon, MB R7A 1L9 T 204-570-1405 F 204-726-6567 christine.gerardy@gov.mb.ca www.manitoba.ca/drinkingwater

Sent via electronic mail: no hard copy to follow

January 23, 2018

PWS 63.50

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

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

2017 Annual Compliance Audit

Dear Ms. Steele:

Please find enclosed the 2017 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)

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 in 2018 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.

Earlier this past year, water suppliers received notification on changes to the water system assessment process and how those changes affect your water system. Please contact me if you require additional information about your assessment.

The 2017 Annual Compliance Audit is based on information submitted to this office. If your records conflict with the audit information, please call me at (204) 570-1405.

Sincerely,

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Christine Gerardy Regional Drinking Water Officer

Enclosures

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



2017 Annual Compliance Audit

Water System: ELTON (WHITEHEAD ELTON REGIONAL) - PWS Code: 63.50 Water System Owner: Rural Municipality of Elton

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

- This report documents the Elton (Whitehead Elton Regional) Public Water System compliance for the period from January 1 to December 31, 2017.
- 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.

Summary of Non-Compliance Incidents:

None reported



Addendum A: Record of Non-Compliance Water System: ELTON (WHITEHEAD ELTON REGIONAL) - PWS Report period: January 1, 2017 to December 31, 2017.

Enforcement Action Taken

Date	Incident	Outcome
	None reported	

Disinfection Requirements

Date	Incident	Outcome
	None reported	

Bacteriological Requirements

Date	Incident	Outcome
	None reported	

Microbial Requirements

Outcome

Turbidity Requirements

Date	Incident	Outcome
	None reported	

Chemical Requirements

Date	Incident	Outcome
	None reported	

Operational Requirements

e	Outcome	Incident	Date	
		None reported		
		None reported		



Sustainable Development Office of Drinking Water 1129 Queens Ave, Brandon, MB R7A 1L9 T 204-570-1405 F 204-726-6567 christine.gerardy@gov.mb.ca www.manitoba.ca/drinkingwater

Sent via electronic mail: no hard copy to follow

January 23, 2018

PWS 248.70

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

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

2017 Annual Compliance Audit

Dear Ms. Steele:

Please find enclosed the 2017 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).

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.
- 2017 Public Water System Annual Report (due date: March 31, 2018)
- Advisory Notification Plan (due date: May 1, 2018)
- Water System Re-Assessment (due date: March 1, 2026)

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 in 2018 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.

Earlier this past year, water suppliers received notification on changes to the water system assessment process and how those changes affect your water system. Please contact me if you require additional information about your assessment.

The 2017 Annual Compliance Audit is based on information submitted to this office. If your records conflict with the audit information, please call me at (204) 570-1405.

Sincerely,

plande

Christine Gerardy Regional Drinking Water Officer

Enclosures

e-copy: Ralph Berg, Manager WERWC <u>werwc@mynetset.ca</u> Angela Meier, Manitoba Water Services Board



2017 Annual Compliance Audit

Water System: ELTON (WHITEHEAD ELTON REGIONAL) - PWS Code: 63.50 Water System Owner: Rural Municipality of Elton

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

- This report documents the Elton (Whitehead Elton Regional) Public Water System compliance for the period from January 1 to December 31, 2017.
- 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.

Summary of Non-Compliance Incidents:

None reported



Addendum A: Record of Non-Compliance Water System: WHITEHEAD ELTON REGIONAL - PWS Report period: January 1, 2017 to December 31, 2017.

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

Incident	Outcome	
None reported	A 1	

Page 2 of 2

3.3 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.

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

The tests were 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.

Arsenic Test

As part of our license with ODW, the Whitehead Elton Regional Water Co-operative 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 in 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. #: Job Reference: C of C Numbers: Legal Site Desc:

NOT SUBMITTED WHITEHEAD ELTON REGIONAL - PWS 248.70

46658

n

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

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ANALYTICAL REPORT

Physical Tests (WATER)

		Samp	ALS ID bled Date led Time ample ID	L18957 28-FEE 10:0 WHITEH	3-17 0	L18957 28-FEI 10:0	B-17 00
Analyte	Unit	Guide Limit #1	Guide Limit #2	ELTO REGION RAV	AL 1 -	ELTO REGION TREA	AL 2 -
Colour, True	CU	15	-	<5.0		<5.0	- II.
Conductivity	umhos/cm	n -		1040		301	
Hardness (as CaCO3)	mg/L	-	-	541	HTC	109	HTC
Langelier Index (4 C)	No Unit	-	0.0400	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)

		Samp	ALS ID bled Date bled 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 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	-	- 1- II	<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 bled Date bled 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 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.

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



ANALYTICAL REPORT

Total Metals (WATER)

		Sampl Sa	ALS ID led Date ed 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 REGIONAL 2 - TREATED
Aluminum (Al)-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		÷	<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	- 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	-	1.0	<0.0020	<0.0020
Phosphorus (P)-Total	mg/L	-	-	0.21	<0.10
Potassium (K)-Total	mg/L	-	-	4.66	1.33
Rubidium (Rb)-Total	mg/L	-	9 H 1	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)

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.

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



ANALYTICAL REPORT

Total Metals (WATER)

		Samp	ALS ID bled Date bled 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 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	ALS ID ed Date ed Time mple ID	L1895785-1 28-FEB-17 10:00 WHITEHEAD
Analyte	Unit	Guide Limit #1 L	Guide _imit #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	6)%		-	96.9

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.

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

4) Water System Incidents and Corrective Actions

There was no corrective actions reported to the Drinking Water Officer in 2017.

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 Whitehead Elton Regional Water Co-operative Inc. (WERWC) had two major pipeline expansion projects in 2017. One in the RM of Whitehead (Whitehead) and one in the RM of Elton (Elton), with most service connections completed by the end of 2017. For Whitehead and Elton, these projects completed the waterline expansion providing all services to those whom requested to be connected.
- The South Well required the existing connections to be replaced with stainless steel fittings.
- Surveillance cameras were installed at the Alexander Water Treatment Plant in 2017.
- Due to the expansion in both municipalities, the need for increased staffing was required which resulted in three full-time permanent positions (increasing from the 1 full-time, one part-time and one casual).
- A 2012 Hundi Santa Fe was purchased for the vehicle fleet due to increasing staffing required with the rural waterline expansions in the RM of Alexander and the RM of Elton.
- It was identified that the waterline that runs under the Assiniboine River was floating and divers were hired to weight down the line.

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.

8) Appendix A

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

9) 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

2017 BACTERIAL SAMPLE RESULTS

Community Code	Collection Date	Sample Iden	tification	Total Coliforms	E.Coli	Free Chlorine	Total Chlorine	HPC
248.7	04-Jan-17	W/E Sample#1	Raw N. Well	0	0	0.00	0.00	
248.7	04-Jan-17	W/E Sample#2	Treated	0	0	0.74	0.91	
248.7	04-Jan-17	W/E Sample#3	Incoming	0	0	0.71	0.77	-
248.7	04-Jan-17	W/E Sample#4	Outgoing	0	0	0.62	0.72	
248.8	04-Jan-17	Whitehead Dist.	Alexander	0	0	0.81	0.87	
248.8	04-Jan-17	Whitehead Dist.	Dungannan	0	0	0.66	0.76	
63.5	04-Jan-17	Elton Dist.	R.M. Office	0	0	0.62	0.68	
63.5	04-Jan-17	Elton Dist.	P.R. #2	0	0	0.72	0.77	
248.7	19-Jan-17	W/E Sample#1	Raw N. Well	0	0	0.00	0.00	
248.7	19-Jan-17	W/E Sample#1	Treated	0	0	0.85	1.03	
248.7	19-Jan-17	W/E Sample#3	Incoming	0	0	0.59	0.66	_
248.7	19-Jan-17	W/E Sample#4	Outgoing	0	0	0.94	1.04	
248.8	19-Jan-17	Whitehead Dist.	Alexander	0	0	0.94	0.94	_
248.8	19-Jan-17	Whitehead Dist.	West Side	0	0	0.50	0.54	
63.5	19-Jan-17	Elton Dist.	R.M. Office	0	0	0.30	0.97	
63.5	19-Jan-17	Elton Dist.	P.R. #2	0	0	1.53	1.72	_
248.7	01-Feb-17	W/E Sample#1	Raw N. Well	0	0	0.00	0.00	
248.7	01-Feb-17	W/E Sample#1	Treated	0	0	0.83	0.00	
248.7	01-Feb-17	W/E Sample#3	Incoming	0	0	1.18	1.38	_
248.7	01-Feb-17	W/E Sample#4	-	0	0	0.79	0.87	
248.8	01-Feb-17	Whitehead Dist.	Outgoing Alexander	0	0	0.75		_
248.8	01-Feb-17	Whitehead Dist.	and the second s	0	0		0.97	
	and the second second second		West Side	0	0	0.58	0.59	
63.5 63.5	01-Feb-17	Elton Dist.	R.M. Office P.R. #2	0	0	0.83	0.90	
248.7	01-Feb-17	Elton Dist. W/E Sample#1	Raw N. Well	0	0	0.00	0.84	_
248.7	14-Feb-17			0	0		0.00	_
No. of States	14-Feb-17	W/E Sample#2	Treated	0		0.89	1.04	
248.7	14-Feb-17	W/E Sample#3	Incoming		0	0.77	0.85	
248.7	14-Feb-17	W/E Sample#4	Outgoing	0	0	0.79	0.86	
248.8	14-Feb-17	Whitehead Dist.	Alexander	0	0	0.70	0.79	_
248.8	14-Feb-17	Whitehead Dist. Elton Dist.	Dungannan		0	0.89	1.01	_
63.5 63.5	14-Feb-17		R.M. Office	0	0	0.72	0.85	_
248.7	14-Feb-17	Elton Dist.	P.R. #2	0	0	0.83	0.92	
	01-Mar-17	W/E Sample#1	Raw N. Well		0	0.00	0.00	
248.7	01-Mar-17	W/E Sample#2	Treated	0	0	1.02	1.14	_
248.7	01-Mar-17	W/E Sample#3	Incoming	0	0	1.22	1.27	
248.7	01-Mar-17	W/E Sample#4	Outgoing	0	0	0.85	0.97	-
248.8	01-Mar-17	Whitehead Dist.	Alexander	0	0	1.10	1.20	
248.8	01-Mar-17	Whitehead Dist.	Dungannan	0	0	1.19	1.22	
63.5	01-Mar-17	Elton Dist.	R.M. Office	0	0	0.79	0.85	
63.5	01-Mar-17	Elton Dist.	P.R. #2	0	0	1.35	1.47	-
248.7	15-Mar-17	W/E Sample#1	Raw N. Well	0	0	0.00	0.00	

2017 Bacterial Test Results

248.7	15-Mar-17	W/E Sample#3	Incoming	0	0	0.80	0.83	
248.7	15-Mar-17	W/E Sample#4	Outgoing	0	0	0.85	0.91	
248.8	15-Mar-17	Whitehead Dist.	Alexander	0	0	0.73	0.84	
248.8	15-Mar-17	Whitehead Dist.	Dungannan	0	0	0.84	0.96	
63.5	15-Mar-17	Elton Dist.	School	0	0	0.89	0.93	
63.5	15-Mar-17	Elton Dist.	P.R. #2	0	0	0.72	0.80	
248.7	29-Mar-17	W/E Sample#1	Raw N. Well	0	0	0.00	0.00	
248.7	29-Mar-17	W/E Sample#2	Treated	0	0	0.74	0.96	
248.7	29-Mar-17	W/E Sample#3	Incoming	0	0	0.70	74.00	
248.7	29-Mar-17	W/E Sample#4	Outgoing	0	0	0.82	0.89	
248.8	29-Mar-17	Whitehead Dist.	Alexander	0	0	0.81	0.90	
248.8	29-Mar-17	Whitehead Dist.	West Side	0	0	0.70	0.75	
63.5	29-Mar-17	Elton Dist.	Berg	0	0	0.82	0.89	
63.5	29-Mar-17	Elton Dist.	P.R. #2	0	0	0.92	1.00	
248.7	12-Apr-17	W/E Sample#1	Raw N. Well	0	0	0.00	0.00	
248.7	12-Apr-17	W/E Sample#2	Treated	0	0	0.85	0.97	
248.7	12-Apr-17	W/E Sample#3	Incoming	0	0	0.88	1.01	
248.7	12-Apr-17	W/E Sample#4	Outgoing	0	0	0.82	0.90	
248.8	12-Apr-17	Whitehead Dist.	Alexander	0	0	0.88	0.98	
248.8	12-Apr-17	Whitehead Dist.	Dungannan	0	0	0.70	0.81	
63.5	12-Apr-17	Elton Dist.	P.R. #2	0	0	0.87	0.95	
63.5	12-Apr-17	Elton Dist.	R.M. Office	0	0	0.78	0.85	
248.7	26-Apr-17	W/E Sample#1	Raw N. Well	0	0	0.00	0.00	
248.7	26-Apr-17	W/E Sample#2	Treated	0	0	0.70	0.86	
248.7	26-Apr-17	W/E Sample#3	Incoming	0	0	0.79	0.85	
248.7	26-Apr-17	W/E Sample#4	Outgoing	0	0	0.76	0.82	
248.8	26-Apr-17	Whitehead Dist.	Alexander	0	0	0.67	0.85	
248.8	26-Apr-17	Whitehead Dist.	Dungannan	0	0	0.75	0.85	
63.5	26-Apr-17	Elton Dist.	P.R. #1	0	0	0.73	0.78	
63.5	26-Apr-17	Elton Dist.	R.M. Office	0	0	0.62	0.73	
248.7	10-May-17	W/E Sample#1	Raw N. Well	0	0	0.00	0.00	
248.7	10-May-17	W/E Sample#2	Treated	0	0	0.54	0.77	
248.7	10-May-17	W/E Sample#3	Incoming	0	0	0.85	0.92	
248.7	10-May-17	W/E Sample#4	Outgoing	0	0	0.77	0.85	
248.8	10-May-17	Whitehead Dist.	Alexander	0	0	0.51	0.71	
248.8	10-May-17	Whitehead Dist.	Dungannan	0	0	0.56	0.74	
63.5	10-May-17	Elton Dist.	P.R. #1	0	0	0.73	0.80	
63.5	10-May-17	Elton Dist.	R.M. Office	0	0	0.65	0.69	
248.7	24-May-17	W/E Sample#1	Raw N. Well	0	0	0.00	0.00	
248.7	24-May-17	W/E Sample#2	Treated	0	0	0.61	0.71	
248.7	24-May-17	W/E Sample#3	Incoming	0	0	0.74	0.80	
248.7	24-May-17	W/E Sample#4	Outgoing	0	0	0.66	0.69	
248.8	24-May-17	Whitehead Dist.	Alexander	0	0	0.71	0.80	
248.8	24-May-17	Whitehead Dist.	Dungannan	0	0	0.69	0.78	
63.5	24-May-17	Elton Dist.	P.R. #1	0	0	0.72	0.83	
63.5	24-May-17	Elton Dist.	R.M. Office	0	0	0.59	0.72	
248.7	07-Jun-17	W/E Sample#1	Raw N. Well	0	0	0.00	0.00	

248.7	07-Jun-17	W/E Sample#2	Treated	0	0	0.79	0.89
248.7	07-Jun-17	W/E Sample#3	Incoming	0	0	0.63	0.83
248.7	07-Jun-17	W/E Sample#4	Outgoing	0	0	0.83	0.90
248.8	07-Jun-17	Whitehead Dist.	Alexander	0	0	0.79	0.89
248.8	07-Jun-17	Whitehead Dist.	Dungannan	0	0	0.73	0.79
63.5	07-Jun-17	Elton Dist.	P.R. #2	0	0	0.67	0.78
63.5	07-Jun-17	Elton Dist.	R.M. Office	0	0	0.77	0.86
48.7	21-Jun-17	W/E Sample#1	Raw N. Well	0	0	0.00	0.00
48.7	21-Jun-17	W/E Sample#2	Treated	0	0	0.70	0.82
48.7	21-Jun-17	W/E Sample#3	Incoming	0	0	0.70	0.78
48.7	21-Jun-17	W/E Sample#4	Outgoing	0	0	0.77	0.80
48.8	21-Jun-17	Whitehead Dist.	Alexander	0	0	0.67	0.73
48.8	21-Jun-17	Whitehead Dist.	Prairie Acres	0	0	0.91	0.93
63.5	21-Jun-17	Elton Dist.	P.R. #1	0	0	0.72	0.80
63.5	21-Jun-17	Elton Dist.	R.M. Office	0	0	0.64	0.72
248.7	05-Jul-17	W/E Sample#1	Raw N. Well	0	0	0.00	0.00
48.7	05-Jul-17	W/E Sample#2	Treated	0	0	0.85	0.96
48.7	05-Jul-17	W/E Sample#3	Incoming	0	0	0.85	0.89
48.7	05-Jul-17	W/E Sample#4	Outgoing	0	0	0.80	0.85
48.8	05-Jul-17	Whitehead Dist.	Alexander	0	0	0.80	0.85
48.8	05-Jul-17	Whitehead Dist.	Dungannan	0	0	0.83	0.94
63.5	05-Jul-17	Elton Dist.	P.R. #2	0	0	0.63	0.84
63.5	05-Jul-17	Elton Dist.	R.M. Office	0	0	0.63	0.69
48.7	19-Jul-17	W/E Sample#1	Raw N. Well	0	0	0.00	0.00
48.7	19-Jul-17	W/E Sample#2	Treated	0	0	0.82	0.96
48.7	19-Jul-17	W/E Sample#3	Incoming	0	0	0.88	0.91
48.7	19-Jul-17	W/E Sample#4	Outgoing	0	0	0.83	0.89
48.8	19-Jul-17	Whitehead Dist.	Alexander	0	0	0.79	0.88
48.8	19-Jul-17	Whitehead Dist.	Dungannan	0	0	0.86	0.94
63.5	19-Jul-17	Elton Dist.	P.R. #2	0	0	0.92	1.02
63.5	19-Jul-17	Elton Dist.	R.M. Office	0	0	0.73	0.89
48.7	01-Aug-17	W/E Sample#1	Raw N. Well	0	0	0.00	0.00
48.7	01-Aug-17	W/E Sample#2	Treated	0	0	0.79	0.91
48.7	01-Aug-17	W/E Sample#3	Incoming	0	0	0.84	0.89
48.7	01-Aug-17	W/E Sample#4	Outgoing	0	0	0.78	0.86
48.8	01-Aug-17	Whitehead Dist.	Alexander	0	0	0.84	0.88
48.8	01-Aug-17	Whitehead Dist.	Dungannan	0	0	0.91	0.94
53.5	01-Aug-17	Elton Dist.	P.R. #2	0	0	0.73	0.80
53.5	01-Aug-17	Elton Dist.	R.M. Office	0	0	0.59	0.70
48.7	16-Aug-17	W/E Sample#1	Raw N. Well	0	0	0.00	0.00
48.7	16-Aug-17	W/E Sample#2	Treated	0	0	0.79	0.85
48.7	16-Aug-17	W/E Sample#3	Incoming	0	0	0.82	0.85
48.7	16-Aug-17	W/E Sample#4	Outgoing	0	0	0.65	0.67
48.8	16-Aug-17	Whitehead Dist.	Alexander	0	0	0.77	0.84
48.8	16-Aug-17	Whitehead Dist.	Dungannan	0	0	0.80	0.90
53.5	16-Aug-17	Elton Dist.	P.R. #2	0	0	0.50	0.54
53.5	16-Aug-17	Elton Dist.	R.M. Office	0	0	0.63	0.68

248.7	30-Aug-17	W/E Sample#1	Raw N. Well	0	0	0.00	0.00	
248.7	30-Aug-17	W/E Sample#2	Treated	0	0	1.17	1.18	
248.7	30-Aug-17	W/E Sample#3	Incoming	0	0	0.77	0.83	
248.7	30-Aug-17	W/E Sample#4	Outgoing	0	0	0.65	0.69	
248.8	30-Aug-17	Whitehead Dist.	Alexander	0	0	1.03	1.17	
248.8	30-Aug-17	Whitehead Dist.	Dungannan	0	0	0.85	0.92	
63.5	30-Aug-17	Elton Dist.	P.R. #2	0	0	0.76	0.83	
63.5	30-Aug-17	Elton Dist.	R.M. Office	0	0	0.30	0.35	
248.7		W/E Sample#1	Raw N. Well	0	0	0.00	0.00	
248.7	13-Sep-17	W/E Sample#2	Treated	0	0	0.90	1.24	
248.7	13-Sep-17	W/E Sample#3	Incoming	0	0	0.95	1.05	
248.7	13-Sep-17	W/E Sample#4	Outgoing	0	0	0.94	1.05	
248.8	13-Sep-17	Whithead Dist.	Alexander	0	0	1.14	1.17	
248.8	13-Sep-17	Whithead Dist.	Dungannan	0	0	1.23	1.46	
63.5	13-Sep-17	Elton Dist.	P.R. #2	0	0	0.99	1.05	
63.5	13-Sep-17	Elton Dist.	R.M. Office	0	0	0.89	0.97	
248.7	27-Sep-17	W/E Sample#1	Raw N. Well	0	0	0.00	0.00	
248.7	27-Sep-17	W/E Sample#2	Treated	0	0	1.20	1.56	
248.7	27-Sep-17	W/E Sample#3	Incoming	0	0	0.53	0.59	
248.7	27-Sep-17	W/E Sample#4	Outgoing	0	0	1.02	1.09	
248.8	27-Sep-17	Whithead Dist.	Alexander	0	0	0.94	0.99	
248.8	27-Sep-17	Whithead Dist.	Dungannan	0	0	0.92	1.05	
63.5	27-Sep-17	Elton Dist.	P.R. #2	0	0	0.97	1.10	
63.5	27-Sep-17	Elton Dist.	R.M. Office	0	0	0.88	0.96	
248.7	11-Oct-17	W/E Sample#1	Raw N. Well	0	0	0.00	0.00	
248.7	11-Oct-17	W/E Sample#2	Treated	0	0	1.52	1.61	
248.7	11-Oct-17	W/E Sample#3	Incoming	0	0	1.03	1.12	
248.7	11-Oct-17	W/E Sample#4	Outgoing	0	0	1.00	1.04	
248.8	11-Oct-17	Whithead Dist.	Alexander	0	0	0.51	0.63	
248.8	11-Oct-17	Whithead Dist.	Dungannan	0	0	0.84	0.90	
63.5	11-Oct-17	Elton Dist.	P.R. #2	0	0	1.17	1.29	
63.5	11-Oct-17	Elton Dist.	R.M. Office	0	0	0.87	0.90	
248.7	25-Oct-17	W/E Sample#1	Raw N. Well	0	0	0.00	0.00	
248.7	25-Oct-17	W/E Sample#2	Treated	0	0	1.41	1.48	
248.7	25-Oct-17	W/E Sample#3	Incoming	0	0	0.89	0.96	
248.7		W/E Sample#4	Outgoing	0	0	0.99	1.08	
248.8		Whithead Dist.	Alexander	0	0	0.91	0.96	
248.8	25-Oct-17	Whithead Dist.	Dungannan	0	0	0.83	0.89	
63.5	25-Oct-17		P.R. #2	0	0	1.16	1.21	
63.5	25-Oct-17		R.M. Office	0	0	1.01	1.07	
248.7		W/E Sample#1	Raw N. Well	0	0	0.00	0.00	
248.7		W/E Sample#2	Treated	0	0	0.96	1.06	
248.7		W/E Sample#3	Incoming	0	0	1.27	1.33	
248.7		W/E Sample#4	Outgoing	0	0	1.09	1.19	
248.8		Whithead Dist.	Alexander	0	0	1.08	1.19	
248.8		Whithead Dist.	Dungannan	0	0	0.57	0.65	
63.5		Elton Dist.	P.R. #2	0	0	1.21	1.30	

63.5	8-Nov-17	Elton Dist.	R.M. Office	0	0	0.93	1.02
248.7	22-Nov-17	W/E Sample#1	Raw N. Well	0	0	0.00	0.00
248.7	22-Nov-17	W/E Sample#2	Treated	0	0	1.15	1.28
248.7	22-Nov-17	W/E Sample#3	Incoming	0	0	1.10	1.19
248.7	22-Nov-17	W/E Sample#4	Outgoing	0	0	0.88	0.91
248.8	22-Nov-17	Whithead Dist.	Alexander	0	0	0.61	0.67
248.8	22-Nov-17	Whithead Dist.	Dungannan	0	0	0.58	0.67
63.5	22-Nov-17	Elton Dist.	P.R. #2	0	0	0.65	0.55
63.5	22-Nov-17	Elton Dist.	R.M. Office	0	0	0.80	0.86
248.7	6-Dec-17	W/E Sample#1	Raw N. Well	0	0	0.00	0.00
248.7	6-Dec-17	W/E Sample#2	Treated	0	0	1.04	1.20
248.7	6-Dec-17	W/E Sample#3	Incoming	0	0	0.98	1.05
248.7	6-Dec-17	W/E Sample#4	Outgoing	0	0	0.74	0.82
248.8	6-Dec-17	Whithead Dist.	Alexander	0	0	1.09	1.21
248.8	6-Dec-17	Whithead Dist.	Dungannan	0	0	0.85	0.93
63.5	6-Dec-17	Elton Dist.	P.R. #2	0	0	0.72	0.78
63.5	6-Dec-17	Elton Dist.	R.M. Office	0	0	0.66	0.75
248.7	20-Dec-17	W/E Sample#1	Raw N. Well	0	0	0.00	0.00
248.7	20-Dec-17	W/E Sample#2	Treated	0	0	0.60	0.65
248.7	20-Dec-17	W/E Sample#3	Incoming	0	0	0.70	0.80
248.7	20-Dec-17	W/E Sample#4	Outgoing	0	0	0.90	1.02
248.8	20-Dec-17	Whithead Dist.	Alexander	0	0	0.60	0.75
248.8	20-Dec-17	Whithead Dist.	Dungannan	0	0	0.77	0.90
63.5	20-Dec-17	Elton Dist.	P.R. #2	0	0	1.16	1.25
63.5	20-Dec-17	Elton Dist.	R.M. Office	0	0	0.95	1.06

Appendix B

2017 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_17

LICENSEE'S	NAME: WVNITE	eneau Eilon	Regional W	rater Co-op	erative Inc.	LICENCE	NO. PWS-11	-487
		General De	livery, Forre	st Mb. R0k	< 0W0	PHONE N		
		COLLEGK ONEV		52				
SOURCE OF	WATER SUPPLY	(CHECK ONE)/			WELL			
					SURFACE WATEF	(Name of Philor Cro	ak ata l	
LOCATION (OF PUMP (OR WE	LL):				(Name of River, Cre	en, etc.)	
QUART	ER SE	CTION	TOWNSHIP	RANGE	=	OR OTH	HER (SPECIFY)	
			272					
SE		21	10	21		W1		
DESIGN PUN NOTE 1:		S OF WATER IN	ER SECOND TABLE BELOW DECAMETRES	22.7 EXPRESSED IN		R (SPECIFY)		
METER REA			Cubic Me	eters				
	JANU	ARY	FEBR	UARY	MAR	СН	API	RIL
DAY OF MONTH	METER READING	DAILY	METER READING	DAILY	METER READING	DAILY	METER READING	DAILY
1	113069	545	127013	479	140001	533	154769	495
2	113360	291	127346	333	140376	375	155341	572
3	113800	440	127767	421	140847	471	155844	503
4	114317	517	128232	465	141288	441	156282	438
5	114730	413	128696	464	141804	516	156818	536
6	115240	510 349	129131	435 428	142443	639	157250	432 516
8	115589 116065	476	129559 130054	495	143342		157766 158243	477
9	116624	559	130375	321	143728	386	158720	477
10	117015	391	130903	528	144110	382	159228	508
11	117426	411	131501	598	144676	566	159769	541
12	117832	406	131767	266	145173	497	160209	440
13	118208	376	132278	511	145483	310	160824	615
14	118668	460	132715	437	146026	543	161283	459
15	119260	592	133132	417	146402	376	161817	534
16	119579	319	133613	481	146903	501	162210	393
17	120043 120738	464 695	134077 134567	464 490	147402 147966	499	162719	509 506
19	120738	254	134567	490	148415	564 449	163225 163661	436
20	121466	474	135595	568	148890	449	164101	440
21	121991	525	136184	589	149401	511	164536	435
22	122395	404	136615	431	149920	519	165055	519
23	122844	449	137030	415	150382	462	165558	503
24	123335	491	137598	568	151015	633	166078	520
25	123810	475	138012	414	151396	381	166469	391
26	124296	486	138479	467	151853	457	166950	481
27	124802	506	139007	528	152421	568	167451	501
28	125341	539	139468	461	152893	472	167914	463
29	125680	339	-	-	153337	444	168483	569
30 31	126155	475 379	-	-	153804 154274	467 470	168995	512
	126534							

NOTE2:/ March. 7th- Storm Related Absence

LICENSEE MUST COMPLETE "ANNUAL WATER USE REPORT" FOR EACH CALENDAR YEAR AND FORWARD THE REPORT TO THE WATER LICENSING SECTION AT THE ABOVE ADDRESS NOT LATER THAN FEB. 1 OF THE FOLLOWING YEAR.

	MA	AY	JU	NE	JU	LY	AUG	UST
DAY OF MONTH	METER READING	DAILY CONSUMPTION	METER READING	DAILY CONSUMPTION	METER READING	DAILY CONSUMPTION	METER READING	DAILY
1	169563	568	187840	655	209516	540	230868	899
2	169999	436	188623	783	210074	558	231651	783
3	170525	526	189455	832	210643	569	232183	532
4	171079	554	190175	720	211342	699	232969	786
5	171618	539	191140	965	212103	761	233582	613
6	172410	792	192084	944	212858	755	234143	561
7	172870	460	193030	946	213782	924	234679	536
8	173471	601	193865	835	214751	969	235266	587
9	174003	532	194864		215378	the second s	235839	
10	174589		195513	999		627		573
11	175128	586	196098	649	215973 216734	595	236268	429
12		539	196736	585		761	236910	642
12	175696 176324	568		638	217360	626	237470	560
14		628	197567	831	218120	760	238031	561
	176757	433	198163	596	218839	719	238697	666
15	177335	578	198651	488	219687	848	239399	702
16	177954	619	199280	629	220303	616	239921	522
17	178583	629	200065	785	221049	746	240775	854
18	179176	593	200537	472	221494	445	241462	687
19	179905	729	200960	423	222379	885	242193	731
20	180475	570	201966	1006	223013	634	242959	766
21	181186	711	202561	595	223814	801	243623	664
22	181852	666	203513	952	224405	591		
23	182392	540	203313	634	224993	588	244261	638
24			204750				244981	720
25	183117	725		603	225576	583	245641	660
26	183707	590	205244	494	226166	590	246444	803
	184183	476	205979	735	226727	561	246943	499
27	184723	540	206808	829	227415	688	247510	567
28	185396	673	207751	943	228071	656	248148	638
29	185945	549	208307	556	228785	714	248758	610
30	186529	584	208976	669	229319	534	249360	602
31	107105	050			000000	050		
	187185	656	-		229969	650	250033	673
IUTAL	187185	18190	21791	- 21791	229969 20993	20993	20064	20064
	and all the second s							
	18190	18190	21791	21791	20993	20993	20064	20064
DAY OF	and all the second s	18190 MBER		21791 DBER		20993 MBER	20064	20064 MBER
IOTAL	18190	18190	21791	21791	20993	20993	20064	20064
DAY OF	18190 SEPTE	18190 MBER DAILY CONSUMPTION	21791 OCTO	21791 DBER DAILY CONSUMPTION	20993 NOVE	20993 MBER DAILY CONSUMPTION	20064 DECE	20064 MBER DAILY CONSUMPTIC
DAY OF MONTH	18190 SEPTE METER READING 250866	18190 MBER DAILY consumption 833	21791 OCTC METER READING 270061	21791 DBER DAILY CONSUMPTION 650	20993 NOVE METER READING 287989	20993 MBER DAILY CONSUMPTION 513	20064 DECE METER READING 304275	20064 MBER DAILY CONSUMPTIC 547
DAY OF MONTH 1 2	18190 SEPTE METER READING 250866 251572	18190 MBER DAILY CONSUMPTION 833 706	21791 OCTO METER READING 270061 270643	21791 DAILY CONSUMPTION 650 582	20993 NOVE METER READING 287989 288560	20993 MBER DAILY CONSUMPTION 513 571	20064 DECE METER READING 304275 304994	20064 MBER DAILY CONSUMPTIC 547 719
DAY OF MONTH 1 2 3	18190 SEPTE METER READING 250866 251572 252022	18190 MBER DAILY CONSUMPTION 833 706 450	21791 OCTO METER READING 270061 270643 271259	21791 DBER DAILY CONSUMPTION 650 582 616	20993 NOVE METER READING 287989 288560 289130	20993 MBER DAILY CONSUMPTION 513 571 570	20064 DECE METER READING 304275 304994 305684	20064 MBER DAILY CONSUMPTIC 547 719 690
DAY OF MONTH 1 2 3 4	18190 SEPTE METER READING 250866 251572 252022 252022 252571	18190 MBER DAILY CONSUMPTION 833 706 450 549	21791 OCTO METER READING 270061 270643 271259 271976	21791 DBER DAILY consumption 650 582 616 717	20993 NOVE METER READING 287989 288560 289130 289606	20993 MBER DAILY consumption 513 571 570 476	20064 DECE METER READING 304275 304994 305684 306179	20064 MBER DAILY CONSUMPTIC 547 719 690 495
DAY OF MONTH 1 2 3 4 5	18190 SEPTE METER READING 250866 251572 252022 252571 253163	18190 MBER DAILY consumption 833 706 450 549 592	21791 OCTC METER READING 270061 270643 271259 271976 272742	21791 DAILY CONSUMPTION 650 582 616 717 766	20993 NOVE METER READING 287989 288560 289130 289606 290115	20993 MBER DAILY consumition 513 571 570 476 509	20064 DECE METER READING 304275 304994 305684 306179 306760	20064 MBER DAILY CONSUMPTIC 547 719 690 495 581
DAY OF MONTH 1 2 3 4 5 6	18190 SEPTE METER READING 250866 251572 252022 252571 253163 253163	18190 MBER DAILY consummtion 833 706 450 549 592 627	21791 OCTO METER READING 270061 270643 271259 271976	21791 DBER DAILY consumption 650 582 616 717	20993 NOVE METER READING 287989 288560 289130 289606	20993 MBER DAILY consummition 513 571 570 476 509 563	20064 DECE METER READING 304275 304994 305684 306179	20064 MBER DAILY CONSUMPTIC 547 719 690 495
DAY OF MONTH 1 2 3 4 5 6 7	18190 SEPTE METER READING 250866 251572 252022 252571 253163 253790 2554486	18190 MBER DAILY consumminon 8333 706 450 549 592 627 696	21791 OCTC METER READING 270061 270643 271259 271976 272742	21791 DAILY CONSUMPTION 650 582 616 717 766	20993 NOVE METER READING 287989 288560 289130 289606 290115	20993 MBER DAILY consumption 513 571 570 476 509 563 483	20064 DECE METER READING 304275 304994 305684 306179 306760	20064 MBER DAILY CONSUMPTIC 547 719 690 495 581
DAY OF MONTH 1 2 3 4 5 6 7 8	18190 SEPTE METER READING 250866 251572 252022 252571 253163 253790 254486 255245	18190 MBER DAILY consummtion 833 706 450 549 592 627	21791 OCTC METER READING 270061 270643 271259 271976 272742 273533	21791 DBER DAILY CONSUMPTION 650 582 616 717 766 791	20993 NOVE METER READING 287989 288560 289130 289606 290115 290678	20993 MBER DAILY CONSUMPTION 513 571 570 476 509 563 483 560	20064 DECE METER READING 304275 304994 305684 306179 306760 307308	20064 MBER DAILY CONSUMPTIC 547 719 690 495 581 548
DAY OF MONTH 1 2 3 4 5 6 7	18190 SEPTE METER READING 250866 251572 252022 252571 253163 253790 2554486	18190 MBER DAILY consumminon 8333 706 450 549 592 627 696	21791 OCTC METER READING 270061 270061 270643 271259 271976 272742 273533 274198	21791 DBER DAILY CONSUMPTION 650 582 616 717 766 791 665	20993 NOVE METER READING 287989 288560 289130 289606 290115 290678 291161	20993 MBER DAILY consumption 513 571 570 476 509 563 483	20064 DECE METER READING 304275 304994 305684 306179 306760 307308 307308	20064 MBER DAILY consumptic 547 719 690 495 581 581 548 536
DAY OF MONTH 1 2 3 4 5 6 7 8	18190 SEPTE METER READING 250866 251572 252022 252571 253163 253790 254486 255245	18190 MBER DAILY consumminon 833 706 450 549 592 627 696 759	21791 OCTC METER READING 270061 270643 271259 271976 272742 273533 274198 274198	21791 DBER DAILY consumition 650 582 616 717 766 791 665 427 430	20993 NOVE METER READING 287989 288560 289130 289606 290115 290678 291161 291721 292256	20993 MBER DAILY CONSUMPTION 513 571 570 476 509 563 483 560	20064 DECE METER READING 304275 304994 305684 306179 306760 307308 307308 307308 307844 308390 309050	20064 MBER DAILY CONSUMPTK 547 719 690 495 581 548 536 546 660
DAY OF MONTH 1 2 3 4 5 6 7 7 8 9	18190 SEPTE METER READING 250866 251572 252022 252571 253163 253790 254486 255245 255930	18190 MBER DAILY CONSUMPTION 833 706 450 549 592 627 696 759 685	21791 OCTC METER READING 270061 270643 271259 271976 272742 273533 274198 2742625 275055 275583	21791 DBER DAILY CONSUMPTION 650 582 616 717 766 791 665 427 430 528	20993 NOVE METER READING 287989 288560 289130 289606 290115 290678 291161 291721 292256 292842	20993 MBER DAILY CONSUMPTION 513 571 570 476 509 563 483 560 535	20064 DECE METER READING 304275 304994 3065684 306179 306760 307308 307308 307308 307844 308390 309050 309050	20064 MBER DAILY consumPTK 547 719 690 495 581 548 536 546 660 507
DAY OF MONTH 1 2 3 4 5 6 7 7 8 9 9 10	18190 SEPTE METER READING 250866 261572 252022 252571 253163 253790 254486 255245 255930 256446	18190 MBER DAILY CONSUMPTION 833 706 450 549 592 627 696 759 685 516 482	21791 OCTC METER READING 270061 270063 271259 271976 272742 273533 274198 274625 275055 275055 275055 2750583	21791 DBER DAILY consumption 650 582 616 717 766 791 665 427 430 528 501	20993 NOVE METER READING 287989 288560 289130 289606 290115 290678 291161 291721 292256 292256 2922842 293316	20993 MBER DalLY consummon 513 571 570 476 509 563 483 560 535 586	20064 DECE METER READING 304275 304994 305684 306179 306760 307308 307844 308390 309650 309050 309050 309050 310063	20064 MBER DAILY consummer 547 719 690 495 581 581 548 536 546 660 507 507 506
DAY OF MONTH 1 2 3 4 5 6 7 8 9 9 10 11 11 12	18190 SEPTE METER READING 250866 251572 2522571 253163 253790 254486 255245 255930 256446 256928 256928	18190 MBER DAILY CONSUMPTION 833 706 450 549 592 627 696 759 685 516 482 624	21791 OCTC METER READING 270061 270643 271259 271976 272742 273533 274198 274625 275055 275055 275055 275583 276084 276765	21791 DBER DAILY CONSUMPTION 650 582 616 717 766 791 665 427 430 528 501 681	20993 NOVE METER READING 287989 288560 289130 289606 290115 290678 291161 291721 292256 292842 292842 293316 293859	20993 MBER DAILY consummon 513 571 570 476 509 563 483 560 535 586 483 586 474 543	20064 DECE METER READING 304275 304994 305684 306179 306760 307308 307844 308390 309050 309557 310063 310592	20064 MBER DAILY CONSUMPTIK 547 719 690 495 581 548 536 536 536 660 507 506 529
DAY OF MONTH 1 2 3 4 5 6 7 7 8 9 10 11 11 12 13	18190 SEPTE METER READING 250866 251572 252022 252571 253163 253790 254486 255245 255930 256446 256928 257552 258189	18190 MBER DAILY CONSUMPTION 833 706 450 549 592 627 696 759 685 516 482 624 637	21791 OCTC METER READING 270061 270643 271259 271976 272742 273533 274198 274625 275055 275583 276084 276765 277559	21791 DBER DAILY consumition 650 582 616 717 766 791 665 427 430 528 501 681 794	20993 NOVE METER READING 287989 288560 289130 289606 290115 290678 291161 291721 292256 292842 293316 293859 294429	20993 MBER DalLY consummon 513 571 570 476 509 563 483 560 535 586 474 543 550	20064 DECE METER READING 304275 304994 305684 306760 307308 307308 307308 307308 307308 309050 309050 309050 309050 310063 310592 311156	20064 MBER DAILY CONSUMPTIC 547 719 690 495 581 548 536 546 660 507 506 529 564
DAY OF MONTH 1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14	18190 SEPTE METER READING 250866 251572 252022 252571 253163 253790 254486 255245 255930 256446 256928 257552 258189 258739	18190 MBER DAILY CONSUMPTION 833 706 450 592 627 696 759 685 516 482 624 637 550	21791 OCTC METER READING 270061 270643 271259 271976 272742 273533 274198 274625 275553 275583 276084 276055 27559 277659 2778170	21791 DBER DAILY consummon 650 582 616 717 766 791 665 427 430 528 501 681 794 611	20993 NOVE METER READING 287989 288560 289130 289606 290115 290678 291161 291721 292256 292842 293316 293859 294429 294968	20993 MBER DalLY consumminon 513 571 570 476 509 563 483 560 535 586 474 535 586 474 543 570 539	20064 DECE METER READING 304275 304994 3065684 306179 306760 307308 307308 307308 307308 307308 307308 309557 310063 310592 311156 311711	20064 MBER DAILY CONSUMPTS 547 719 690 495 581 548 536 548 536 548 536 660 507 506 507 506 529 564 555
DAY OF MONTH 1 2 3 4 5 6 6 7 8 9 9 10 11 12 13 14 15	18190 SEPTE METER READING 250866 251572 252022 252571 253163 253790 254486 255245 255930 256446 256928 257552 255930 256446 256928 257752 258189 258739 259387	18190 MBER DAILY CONSUMPTION 8333 706 450 549 592 627 696 759 685 516 482 624 637 550 648	21791 OCTC METER READING 270061 270643 271259 271976 272742 273533 274198 274625 275055 275055 275055 276084 276765 277659 278765 277659 278170 278633	21791 DBER DAILY consumption 650 582 616 717 766 791 665 427 430 528 501 681 794 681 794 611 463	20993 NOVE METER READING 287989 288560 289130 289606 290115 290678 291161 291721 292256 292842 293316 293859 294429 294429 294468 295520	20993 MBER DallY consummion 513 571 570 476 509 563 483 560 535 586 483 586 474 535 586 474 570 539 552	20064 DECE METER READING 304275 304994 3065684 306179 306760 307308 307844 308390 307844 3089557 310063 310592 311156 311711 312322	20064 MBER DAILY consumFic 547 719 690 495 581 548 536 548 536 548 548 548 536 548 548 536 548 555 507 506 529 566 529 566
DAY OF MONTH 1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 15 16	18190 SEPTE METER READING 250866 251572 252022 252571 253163 253790 254486 255245 255930 256446 256928 257552 258189 259387 259387 260098	18190 MBER DAILY CONSUMPTION 833 706 450 549 592 627 696 759 685 516 482 624 637 550 648 711	21791 OCTC METER READING 270061 270643 271259 271259 271259 271259 27422 275533 274198 274625 275583 276084 276084 276765 277559 278170 278170 278633 279275	21791 DBER DAILY consumminon 650 582 616 717 766 791 665 427 430 528 501 681 794 681 794 611 463 642	20993 NOVE METER READING 287989 288560 289130 289606 290115 290678 291161 291721 292256 292842 293316 293859 294429 294429 294968 295520 295993	20993 MBER DAILY consummon 513 571 570 476 509 563 483 560 535 586 483 550 535 586 474 543 570 539 552 473	20064 DECE METER READING 304275 304994 305684 306179 306760 307844 308390 309050 309050 309050 309050 310592 311156 311711 312322 312861	20064 MBER DAILY CONSUMPTR 547 719 690 495 581 548 536 546 660 507 506 529 564 5564 5564 5564 5564 5561 1539
DAY OF MONTH 1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17	18190 SEPTE METER READING 250866 251572 252022 252571 253163 253790 254486 255245 255930 256446 256928 257552 258189 258739 258739 258739 259387 260098	18190 MBER DAILY CONSUMPTION 833 706 450 592 627 696 759 685 516 482 624 637 550 648 711 600	21791 OCTC METER READING 270061 270643 271259 271976 272742 273533 274198 274925 275555 275583 276084 276765 277559 278170 278633 279275 279885	21791 DBER DAILY consummon 650 582 616 717 766 791 665 427 430 528 501 681 794 681 794 611 463 642 610	20993 NOVE METER READING 287989 288560 289130 289606 290115 290678 291161 291721 292256 292842 293316 293859 294429 294968 295520 295520 295993 296617	20993 MBER DalLY consummon 513 571 570 476 509 563 483 560 535 586 474 543 570 539 552 473 562 473 624	20064 DECE METER READING 304275 304994 305684 306179 306760 307308 307308 307308 307308 307308 309050 309050 309050 309050 309050 310063 310063 311156 311711 312322 312861 313437	20064 MBER DAILY CONSUMPTIC 547 719 690 495 581 548 536 546 660 507 506 529 564 555 611 539 576
DAY OF MONTH 1 2 3 4 4 5 6 6 7 7 8 9 10 11 11 12 13 14 15 16 17 18	18190 SEPTE METER READING 250866 251572 252022 252571 253163 253790 254486 255245 255930 256446 256928 257552 258189 258739 258387 260098 260098 260098	18190 MBER DAILY CONSUMPTION 833 706 450 592 627 696 759 685 516 482 624 637 550 648 711 600 653	21791 OCTC METER READING 270061 270643 271259 271259 271259 271259 27422 275533 274198 274625 275583 276084 276084 276765 277559 278170 278170 278633 279275	21791 DBER DAILY consumminon 650 582 616 717 766 791 665 427 430 528 501 681 794 681 794 611 463 642	20993 NOVE METER READING 287989 288560 289130 289606 290115 290678 291161 291721 292256 292842 293316 293859 294429 294429 294968 295520 295993	20993 MBER DalLY consumminon 513 571 570 476 509 563 483 560 535 586 474 535 586 474 543 570 539 552 473 624 620	20064 DECE METER READING 304275 304994 305684 306179 306760 307844 308390 309050 309050 309050 309050 310592 311156 311711 312322 312861	20064 MBER DAILY CONSUMPTR 547 719 690 495 581 548 536 546 660 507 506 529 564 5564 5564 5564 5564 5561 1539
DAY OF MONTH 1 2 3 4 5 6 6 7 8 9 9 10 11 12 13 14 15 16 17 18 19	18190 SEPTE METER READING 250866 251572 252571 253163 253790 254486 255245 255930 256446 256928 257552 258189 259387 260098 260098 260098 261351 262024	18190 MBER DAILY CONSUMPTION 833 706 450 592 627 696 759 685 516 482 624 637 550 648 711 600	21791 OCTC METER READING 270061 270643 271259 271976 272742 273533 274198 274925 275555 275583 276084 276765 277559 278170 278633 279275 279885	21791 DBER DAILY consummon 650 582 616 717 766 791 665 427 430 528 501 681 794 681 794 611 463 642 610	20993 NOVE METER READING 287989 288560 289130 289606 290115 290678 291161 291721 292256 292842 293316 293859 294429 294968 295520 295520 295993 296617	20993 MBER DAILY CONSUMPTION 513 571 570 476 509 563 483 560 535 586 474 543 570 535 586 474 543 570 539 552 473 624 620 545	20064 DECE METER READING 304275 304994 305684 306179 306760 307308 307308 307308 307308 307308 309050 309050 309050 309050 309050 310063 310063 311156 311711 312322 312861 313437	20064 MBER DAILY CONSUMPTIC 547 719 690 495 581 548 536 546 660 507 506 529 564 555 611 539 576
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	18190 SEPTE METER READING 250866 251572 252022 252571 253163 253790 254486 255245 255930 256446 256928 257552 258189 258739 258387 260098 260098 260098	18190 MBER DAILY CONSUMPTION 833 706 450 592 627 696 759 685 516 482 624 637 550 648 711 600 653	21791 OCTC METER READING 270061 270643 271259 271976 272742 273533 274198 274625 275553 275583 276084 276055 27559 277659 277659 2778170 276633 279275 279885 280476	21791 DBER DAILY CONSUMPTION 650 582 616 717 766 791 665 427 430 528 501 681 794 611 463 642 610 591	20993 NOVE METER READING 287989 288560 289130 289606 290115 290678 291161 291721 292256 292842 293316 292842 293316 293859 294429 294968 295520 295993 296617 297237	20993 MBER DalLY consumminon 513 571 570 476 509 563 483 560 535 586 474 535 586 474 543 570 539 552 473 624 620	20064 DECE METER READING 304275 304994 305684 306179 306760 307308 307308 307308 307308 307308 309557 310063 310592 311156 311711 312322 312861 313437 313952	20064 MBER DAILY CONSUMPTS 547 719 690 495 581 548 536 548 536 548 536 660 507 506 507 506 507 506 555 611 539 554 555 611 535 555 611 535 555 611 535 555 611 535 555 615 555 555 555 555 555 55
DAY OF MONTH 1 2 3 4 5 6 6 7 8 9 9 10 11 12 13 14 15 16 17 18 19	18190 SEPTE METER READING 250866 251572 252571 253163 253790 254486 255245 255930 256446 256928 257552 258189 259387 260098 260098 260098 261351 262024	18190 MBER DAILY CONSUMPTION 833 706 450 549 592 627 696 759 685 516 482 624 637 550 648 711 600 653 673	21791 OCTC METER READING 270061 270643 271259 271976 272742 273533 274198 274625 275055 275583 276084 276765 277559 278170 278633 279275 279885 280476 280991 281276	21791 DBER DAILY consumminon 650 582 616 717 766 791 665 427 430 528 501 681 794 681 794 611 463 642 610 591 515 285	20993 NOVE METER READING 287989 288560 289130 289606 290115 290678 291161 291721 292256 292842 293316 293859 294429 294429 294968 295520 295993 296617 297237 297782 298334	20993 MBER DAILY CONSUMPTION 513 571 570 476 509 563 483 560 535 586 474 543 570 535 586 474 543 570 539 552 473 624 620 545	20064 DECE METER READING 304275 304994 305684 306179 306760 307844 308390 309050 309050 309050 309050 310592 311156 311711 312322 312861 313437 313952 314563 315127	20064 MBER DAILY CONSUMPTIC 547 719 690 495 581 548 536 546 660 507 506 660 507 506 529 564 555 611 539 576 611 564
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	18190 SEPTE METER READING 250866 251572 252022 252571 253163 253790 254486 255245 255930 256446 256928 257552 258189 259387 260098 269098 260098 260098 260098 260098	18190 MBER DAILY CONSUMPTION 833 706 450 592 627 696 759 685 516 482 624 637 550 648 711 600 653 673 774 870	21791 OCTC METER READING 270061 270643 271259 271976 272742 273533 274198 274625 275583 276084 276084 276765 277559 278170 278633 279275 279885 280476 280991 281276 281984	21791 DBER DAILY consummon 650 582 616 717 766 791 665 427 430 528 501 681 794 681 794 611 463 681 794 611 681 794 611 515 528 501 681 794 611 681 704 611 681 704 612 610 591 515 528 500 501 500 500 500 528 500 528 501 505 528 501 528 501 528 501 528 501 528 501 528 501 528 501 501 528 501 501 528 501 502 501 502 501 502 501 502 501 502 501 502 501 502 501 502 501 502 501 502 502 501 502 502 501 502 502 502 502 502 502 502 502 502 502	20993 NOVE METER READING 287989 288560 289130 289066 290115 290678 291161 291721 292256 292842 293316 293859 294429 294968 295520 295520 295520 295520 295933 296617 297237 297782 298923	20993 MBER DAILY consummon 513 571 570 476 509 563 483 560 535 586 474 543 570 539 552 473 570 539 552 473 624 473 624 620 545 552 589	20064 DECE METER READING 304275 304994 305684 306760 307308 307308 307308 307308 307308 309050 309050 309050 309050 309050 310063 310592 311156 311711 312322 312861 313437 313952 314563 315127 315745	20064 MBER DAILY CONSUMPTIC 547 719 690 495 581 548 536 546 660 507 506 507 506 529 564 555 611 539 576 515 611 564 618
DAY OF MONTH 1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 20 21	18190 SEPTE METER READING 250866 251572 252022 252571 253163 253790 254486 255245 255930 256446 256928 257552 258189 258739 259387 260098 260098 260698 261351 262024 262798 263668 264421	18190 MBER DAILY CONSUMPTION 833 706 450 549 592 627 696 759 685 516 482 624 637 550 648 711 600 653 673 774 870 753	21791 OCTC METER READING 270061 270643 271259 271976 272742 273533 274198 274625 275055 275583 276084 276055 27559 278170 27665 277559 278170 278633 279275 279885 280476 280991 281276 281984 282599	21791 DBER DAILY CONSUMPTION 650 582 616 717 766 791 665 427 430 528 501 681 794 611 463 642 610 591 515 285 708 615	20993 NOVE METER READING 287989 288560 289130 289606 290115 290678 291161 291721 292256 292842 293316 293859 294429 294968 295520 295993 296617 297237 297782 298334 298923 299476	20993 MBER DAILY consummon 513 571 570 476 509 563 483 560 535 586 474 535 586 474 535 586 474 539 552 473 624 620 545 552 552 552 589 553	20064 DECE METER READING 304275 304994 305684 306179 306760 307308 307308 307308 307308 30750 309557 310063 310592 311156 311711 312322 312861 313437 313952 314563 315127 315745 316300	20064 MBER DAILY CONSUMFY 547 719 690 495 581 548 536 546 660 507 506 529 564 555 611 539 576 515 611 541 561 611 565 555
DAY OF MONTH 1 2 3 4 4 5 6 6 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21 122 23	18190 SEPTE METER READING 250866 251572 252571 253163 253790 254486 255245 255930 256446 256928 257552 258189 259387 260098 260698 260698 260698 261351 262024 262798 263668 264421 264964	18190 MBER DAILY CONSUMPTION 833 706 450 549 592 627 696 759 685 516 482 624 637 550 648 711 600 653 673 774 870 753 543	21791 OCTC METER READING 270061 270063 271259 271976 272742 273533 274198 274625 275055 275583 276084 276765 277559 278633 278633 279275 279885 280476 280991 281276 281984 282599 283091	21791 DBER DAILY consumption 650 582 616 717 766 791 665 427 430 528 501 681 794 681 794 611 463 641 611 463 641 591 515 285 708 615 492	20993 NOVE METER READING 287989 288560 289130 289606 290115 290678 291161 291721 292256 292842 293316 293859 294429 294968 295520 294968 295520 295993 296617 297782 298334 298334 298923 299476 300139	20993 MBER DAILY CONSUMPTION 513 571 570 476 509 563 483 560 535 586 483 560 535 586 474 543 570 539 552 473 539 552 473 624 620 545 552 589 553 663	20064 DECE METER READING 304275 304994 3065684 306179 306760 307308 307308 307844 308390 309557 310063 310952 310063 310592 311156 311711 312322 312861 313437 313952 314563 315127 315745 316300 316873	20064 MBER DAILY CONSUMPTIK 547 719 690 495 581 548 536 546 660 507 506 529 564 660 507 506 611 539 576 517 611 564 611 564 611 565 573
DAY OF MONTH 1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 21 22 23 24	18190 SEPTE METER READING 250866 251572 252022 252571 253163 253790 254486 255245 255930 256446 255930 256446 256928 257552 258189 259387 260098 260098 260098 260098 260698 261351 262024 262798 263668 263668 264421 264964 265525	18190 DAILY CONSUMPTION 833 706 450 549 592 627 696 759 685 516 482 624 637 550 648 711 600 653 673 774 870 753 543 561	21791 OCTC METER READING 270061 270643 271259 271976 272742 273533 274198 274625 276565 275583 276084 276765 277559 278170 278633 276084 276765 277559 278170 278633 279275 279885 280476 280991 281276 281984 282599 283091 283086	21791 DBER DAILY CONSUMPTION 650 582 616 717 766 791 665 427 430 528 501 681 794 611 463 681 794 611 463 681 794 611 515 285 708 615 492 595	20993 NOVE METER READING 287989 288560 289130 289606 290115 290678 291161 291721 292256 292842 293316 293859 294429 294968 295520 29577782 29577782 29577782 2957762 2977762 2977762 2977762 2977762 2977762 2977762 2977762 29776	20993 MBER DAILY CONSUMPTION 513 571 570 476 509 563 483 560 535 586 474 543 570 535 586 474 543 570 539 552 473 624 620 545 552 589 553 663 -	20064 DECE METER READING 304275 304994 305684 306179 306760 307804 307844 308390 309050 309050 309050 309050 310063 311156 311711 312322 312861 313437 312861 313437 313952 314563 315127 315745 316300 316873 317566	20064 MBER DAILY CONSUMPTIC 547 719 690 495 581 548 536 546 660 507 506 660 507 506 529 564 555 611 539 576 611 539 576 611 547 611 547 611 539 576 611 567 660 577 576 575 576 577 576 577 576 577 576 577 576 577 577
DAY OF MONTH 1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	18190 SEPTE METER READING 250866 251572 252022 252571 253163 253790 254486 255245 255930 256446 256928 257552 258189 258739 259387 260098 260098 260098 260098 260098 260098 260098 26024 262798 263668 264421 264964 26525 266002	18190 MBER DAILY CONSUMPTION 833 706 450 592 627 696 759 685 516 482 624 637 550 648 711 600 653 673 774 870 753 543 561 477	21791 OCTC METER READING 270061 270643 271259 271976 272742 273533 274198 274625 275583 276084 27665 277559 278170 278633 279275 279885 280476 280991 281276 281984 282599 283091 283686 284182	21791 DBER DAILY consummon 650 582 616 717 766 791 665 427 430 528 501 681 794 611 463 681 794 611 463 642 610 591 515 285 708 615 492 595 496	20993 NOVE METER READING 287989 288560 289130 289066 290115 290678 291161 291721 292256 292842 293316 293859 294429 294968 295520 295520 295993 296617 297237 297782 298923 298923 298476 300139 - -	20993 MBER DAILY CONSUMPTION 513 571 570 476 509 563 483 560 535 586 474 543 570 539 552 473 562 473 624 620 545 552 589 553 663 - -	20064 DECE METER READING 304275 304994 305684 306760 307308 307308 307308 309050 309050 309050 309050 309050 309050 310063 311156 311711 312322 312861 313437 313952 312861 313437 313952 314563 315745 316873 317566 318046	20064 MBER DAILY CONSUMPTIC 547 719 690 495 581 548 536 546 660 507 506 529 564 655 564 539 576 515 611 539 576 515 611 539 576 515 615 515 618 539 576 515 618 539 576 515 618 539 576 515 618 539 576 515 618 539 576 515 515 618 539 576 515 515 618 539 576 515 515 618 539 576 515 515 515 515 517 517 517 517
DAY OF MONTH 1 2 3 4 4 5 6 6 7 7 8 9 10 11 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	18190 SEPTE METER READING 250866 251572 252022 252571 253163 253790 254486 255245 255930 256446 256928 257552 258189 258739 259387 260098 260098 260098 261351 262024 262798 263668 264421 264964 265525 266002 266557	18190 MBER DAILY CONSUMPTION 833 706 450 549 592 627 696 759 685 516 482 624 637 550 648 711 600 653 673 774 870 753 543 561 477 555	21791 OCTC METER READING 270061 270643 271259 271976 272742 273533 274198 274625 275553 275055 275583 276084 276055 275559 278170 277659 277659 277659 277659 277659 2778170 278633 279275 280476 280991 281276 281984 282599 283091 283686 283182	21791 DBER DAILY CONSUMPTION 650 582 616 717 766 791 665 427 430 528 501 681 794 611 463 642 610 591 515 285 708 615 492 595 496 645	20993 NOVE METER READING 287989 288560 289130 289606 290115 290678 291161 291721 292256 292842 293316 293859 294429 294968 295520 29577782 29577782 29577782 2957762 2977762 2977762 2977762 2977762 2977762 2977762 2977762 29776	20993 MBER DAILY CONSUMPTION 513 571 570 476 509 563 483 560 535 586 474 543 570 539 552 473 624 620 545 552 473 624 620 545 552 473 624 620 545 552 589 553 663 - 574	20064 DECE METER READING 304275 304994 305684 306179 306760 307804 307844 308390 309050 309050 309050 309050 310063 311156 311711 312322 312861 313437 312861 313437 313952 314563 315127 315745 316300 316873 317566	20064 MBER DAILY CONSUMPTIC 547 719 690 495 581 548 536 546 660 507 506 660 507 506 529 564 555 611 539 576 611 539 576 611 547 611 547 611 539 576 611 567 660 577 576 575 576 577 576 577 576 577 576 577 576 577 577
DAY OF MONTH 1 2 3 4 5 6 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 22 23 24 25 26 27	18190 SEPTE METER READING 250866 251572 252571 253163 255245 255245 255930 256446 256245 256245 255930 256446 256928 257552 258189 259387 260098 260698 260698 260698 260698 261351 262024 262798 263668 264421 264421 264964 265525 266002 2666557 267344	18190 DAILY CONSUMPTION 833 706 450 549 592 627 696 759 685 516 482 624 637 550 648 711 600 653 673 774 870 753 543 561 477 555 787	21791 OCTC METER READING 270061 270643 271259 271976 272742 273533 274198 274625 275583 276084 27665 277559 278170 278633 279275 279885 280476 280991 281276 281984 282599 283091 283686 284182	21791 DBER DAILY consummon 650 582 616 717 766 791 665 427 430 528 501 681 794 611 463 681 794 611 463 642 610 591 515 285 708 615 492 595 496	20993 NOVE METER READING 287989 288560 289130 289066 290115 290678 291161 291721 292256 292842 293316 293859 294429 294968 295520 295520 295993 296617 297237 297782 298923 298923 298476 300139 - -	20993 MBER DAILY CONSUMPTION 513 571 570 476 509 563 483 560 535 586 474 543 570 539 552 473 624 620 552 473 624 620 545 552 589 553 663 - - 574 530	20064 DECE METER READING 304275 304994 305684 306760 307308 307308 307308 309050 309050 309050 309050 309050 309050 310063 311156 311711 312322 312861 313437 313952 312861 313437 313952 314563 315745 316873 317566 318046	20064 MBER DAILY CONSUMPTIC 547 719 690 495 581 548 536 546 660 507 506 529 564 655 564 539 576 515 611 539 576 515 611 539 576 515 615 515 618 539 576 515 618 539 576 515 618 539 576 515 618 539 576 515 618 539 576 515 515 618 539 576 515 515 618 539 576 515 515 618 539 576 515 515 515 515 517 517 517 517
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 21 20 21 22 23 22 24 25 26 27 28	18190 SEPTE METER READING 250866 251572 252022 252571 253163 253790 254486 255245 255930 256446 256928 257552 258189 258739 259387 260098 260098 260098 261351 262024 262798 263668 264421 264964 265525 266002 266557	18190 MBER DAILY CONSUMPTION 833 706 450 549 592 627 696 759 685 516 482 624 637 550 648 711 600 653 673 774 870 753 543 561 477 555	21791 OCTC METER READING 270061 270643 271259 271976 272742 273533 274198 274625 275553 275055 275583 276084 276055 275559 278170 277659 277659 277659 277659 277659 2778170 278633 279275 280476 280991 281276 281984 282599 283091 283686 283182	21791 DBER DAILY CONSUMPTION 650 582 616 717 766 791 665 427 430 528 501 681 794 611 463 642 610 591 515 285 708 615 492 595 496 645	20993 NOVE METER READING 287989 288560 289130 289606 290115 290678 291161 291721 292256 292842 293316 293859 294429 294968 295520 295993 296617 297237 297782 298334 298923 299476 300139 - - 301103 301677	20993 MBER DAILY CONSUMPTION 513 571 570 476 509 563 483 560 535 586 474 543 570 539 552 473 624 620 545 552 473 624 620 545 552 473 624 620 545 552 589 553 663 - 574	20064 DECE METER READING 304275 304994 305684 306179 306760 307308 307308 307308 307308 309050 309050 309050 309050 309050 309050 311156 311711 312322 312861 313437 313952 314563 315127 315745 316300 316873 317566 318046 318736	20064 MBER DAILY CONSUMFY 547 719 690 495 581 548 536 546 660 507 506 529 564 555 611 539 576 515 611 535 611 535 611 535 611 535 611 535 611 535 611 535 611 535 611 535 611 535 611 536 611 535 611 536 611 536 611 536 611 536 637 757 757 757 758 757 758 758 75
IDIAL 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	18190 SEPTE METER READING 250866 251572 252571 253163 255245 255245 255930 256446 256245 256245 255930 256446 256928 257552 258189 259387 260098 260698 260698 260698 260698 261351 262024 262798 263668 264421 264421 264964 265525 266002 2666557 267344	18190 DAILY CONSUMPTION 833 706 450 549 592 627 696 759 685 516 482 624 637 550 648 711 600 653 673 774 870 753 543 561 477 555 787	21791 OCTC METER READING 270061 270643 271259 271976 272742 273533 274198 274625 276056 2775583 276084 276765 277559 278170 278633 279275 279885 280476 280991 281276 281984 282599 283091 283686 284182 283091 283686 284182 285937	21791 DBER DAILY CONSUMPTION 650 582 616 717 766 791 665 427 430 528 501 681 794 611 463 642 610 591 515 285 708 615 492 595 492 595 496 645 483 627	20993 NOVE METER READING 287989 288560 289130 289606 290115 290678 291161 292256 292842 293316 293859 294429 294968 295520 295520 295520 295520 295520 295520 295520 296617 297237 297782 298334 298933 299476 300139 - 301103 301677 302207 302766	20993 MBER DAILY CONSUMPTION 513 571 570 476 509 563 483 560 535 586 474 543 570 539 552 473 624 620 552 473 624 620 545 552 589 553 663 - - 574 530	20064 DECE METER READING 304275 304994 305684 306179 306760 307804 307844 308390 309050 309050 309050 309050 309050 310063 311156 311711 312322 312861 313437 313952 312861 313437 313952 314563 315127 315745 316300 318673 317566 318046 318736 319099 319792	20064 MBER DAILY CONSUMPTIC 547 719 690 495 581 548 536 546 660 507 506 660 507 506 529 564 655 611 539 576 611 539 576 611 564 661 855 573 693 480 693 693
DAY OF MONTH 1 2 3 4 4 5 6 6 7 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21 21 20 21 22 23 22 24 25 26 27 28	18190 SEPTE METER READING 250866 251572 252022 252571 253163 253790 254486 255245 255930 256446 256928 257552 258189 259387 260098 260698 260698 260698 260698 260698 261351 262024 262798 263668 263668 264421 264964 265525 266002 266557 267344 268038	18190 MBER DAILY CONSUMPTION 833 706 450 592 627 696 759 685 516 482 624 637 550 648 711 600 653 673 774 870 753 543 561 477 555 787 694 1000	21791 OCTC METER READING 270061 270643 271259 271976 272742 273533 274198 274625 275583 276084 276765 277559 278170 278633 276765 277559 278170 278633 279275 279885 280476 280991 281276 281984 282599 283091 283866 284182 284827 285310 285937 286388	21791 DBER DAILY CONSUMPTION 650 582 616 717 766 791 665 427 430 528 501 681 794 611 463 681 794 611 463 642 640 591 515 285 708 615 492 595 496 645 483 627 451	20993 NOVE METER READING 287989 288560 289130 289066 290115 290678 291161 291256 292842 293316 293859 294429 294968 295520 295520 295520 295520 295933 296617 297237 297782 298923 298923 298923 298476 300139 - - 301103 301677 302207 302266 303256	20993 MBER DAILY CONSUMPTION 513 571 570 476 509 563 483 560 535 586 474 543 570 539 552 473 624 620 545 552 589 552 589 553 663 - - 574 530 559 490	20064 DECE METER READING 304275 304994 305684 306179 306760 307308 307308 307308 309050 309050 309050 309050 309050 309050 310063 310592 311156 311711 312322 312861 313437 313952 312861 313437 313952 314563 315745 315745 316873 315745 316873 317566 318046 318099 319792 320471	20064 MBER DAILY CONSUMPTIC 547 719 690 548 548 536 546 660 507 506 529 564 655 564 555 611 539 576 515 611 539 576 515 611 539 576 515 611 539 576 515 618 539 576 515 618 539 576 515 618 609 363 480 693 367 93 679
DAY OF MONTH 1 2 3 4 4 5 6 7 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 22 23 24 22 26 27 28 29	18190 SEPTE METER READING 250866 251572 252022 252571 253163 253790 254486 255245 255930 256446 256928 257552 258189 258739 259387 260098 260098 260098 260098 260098 260098 260098 260098 26024 262798 263668 264421 2662798 263668 264424 26555 266002 266557 267344 268038 269038	18190 DAILY CONSUMPTION 833 706 450 549 592 627 696 759 685 516 482 624 637 550 648 711 600 653 673 774 870 753 543 561 477 555 787 694	21791 OCTC METER READING 270061 270643 271259 271976 272742 273533 274198 274625 276056 2775583 276084 276765 277559 278170 278633 279275 279885 280476 280991 281276 281984 282599 283091 283686 284182 283091 283686 284182 285937	21791 DBER DAILY CONSUMPTION 650 582 616 717 766 791 665 427 430 528 501 681 794 611 463 642 610 591 515 285 708 615 492 595 492 595 496 645 483 627	20993 NOVE METER READING 287989 288560 289130 289606 290115 290678 291161 292256 292842 293316 293859 294429 294968 295520 295520 295520 295520 295520 295520 295520 296617 297237 297782 298334 298933 299476 300139 - 301103 301677 302207 302766	20993 MBER DAILY CONSUMPTION 513 571 570 476 509 563 483 560 535 586 474 535 586 474 543 570 535 586 474 552 473 624 620 545 552 589 553 663 - - 575 589 553 663 - 552 589 553 663 - 552 589 553 663 - 552 589 553 663 - 552 589 553 663 - 552 589 555 555	20064 DECE METER READING 304275 304994 305684 306179 306760 307804 307844 308390 309050 309050 309050 309050 309050 310063 311156 311711 312322 312861 313437 313952 312861 313437 313952 314563 315127 315745 316300 318673 317566 318046 318736 319099 319792	20064 MBER DAILY CONSUMPTIC 547 719 690 547 547 547 548 548 548 548 548 546 660 507 506 529 564 660 507 506 529 564 555 611 539 576 611 539 576 611 547 611 564 661 855 573 693 480 693 693









