

PUBLIC WATER SYSTEM ANNUAL REPORT

-2023-

Name of the Public Water System: Municipality of Souris-Glenwood Water Treatment Plant

Name of the legal owner: Municipality of Souris-Glenwood

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Water system's emergency number: (204)483-0705

Name of Operator: Don Bodin, Senior Plant Operator

Phone during business hours: (204) 483-0705

Emergency number: (204) 483-0705

Date prepared; March 22, 2024



Charlotte Parham
Chief Administrative Officer
Municipality of Souris-Glenwood

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Introduction:

The 2023 Annual Report for the Municipality of Souris-Glenwood summarizes the Water utility's ability to produce safe potable water and meet provincial regulations

1. Description of the Water System:

The Municipality of Souris-Glenwood Public Water System provides potable drinking water to a population of 1960 residents. Treated water produced at the water treatment plant meets all health and aesthetic objectives as stated in the Guidelines for Canadian Drinking Water Quality.

1.1. Water supply source

The Souris Water Treatment Plant receives groundwater from two wells located 16 kilometers northeast of Souris. Both wells were drilled to a depth of approximately 130 feet with the pumps drawing at 80 feet. Raw water is pumped from the wells into a 200mm pipeline where it flows to the water treatment plant.

As water flows through the ground it dissolves metals and minerals. In the case of Souris's raw water, it has come into contact with a few metals with the major concerns being iron, manganese, calcium carbonate (hardness causing mineral) and a conventional parameter known as ammonia. All of these items except manganese do not pose health concerns, rather they are known as aesthetic water quality parameters. Ammonia being another exception as there is no upper detection limit in Guidelines for Canadian Drinking Water Quality. (See Appendix A- Raw Water Analyses)

1.2. Water treatment process

Iron and manganese are metals that cause laundry and plumbing fixture staining problems. In addition, these materials can build up in the distribution pipes and cause reduced flow. Calcium carbonate causes hardness in water which diminishes the ability of the water to react with soap and form lather. Hardness also forms scale deposits in hot water devices reducing the life expectancy of these appliances.

Ammonia does not pose a health concern but rather it does cause other problems in the treatment process.

The current water treatment process is designed to remove iron, manganese and ammonia down to acceptable limits and soften the water down to a total hardness of 60 to 100 mg/L. With regards to hardness individuals have their own preference with the ability to install their own water softeners.

The Souris water treatment process consists of iron and manganese removal followed by reverse osmosis, ph adjustment, disinfection and fluoridation. (See Appendix B-Treatment Process). The treatment process also contains the addition of approximately 20% of blended raw water. The town chose this as to make the water less aggressive before it enters the distribution system.

Iron and manganese is removed from the raw water by adding potassium permanganate. The water then flows into a contact tank with a retention time of approximately 90 minutes. Potassium permanganate is added to cause the iron and manganese to come out of solution (precipitate). The precipitated iron and manganese is then removed from the water by flowing through three manganese greensand filters. This treatment process is the blended water.

In addition to iron and manganese removal, hardness and ammonia is removed by reverse osmosis (R.O.). The R.O. consists of a two stage unit with 80 membranes. After R.O., the ph is then adjusted, followed by chlorination and fluoridation. Treated water is then stored in the treated water reservoir located beneath the plant.

1.3. Distribution system

Treated water from the reservoir is pumped throughout the towns distribution system via two duty pumps. The main pump is 15 h.p. with the backup pump being 25 h.p. The backup pump is set to start if pressure in the distribution drops below 70 p.s.i. Piping in the distribution consists of approximately 75% cast iron and 25% PVC.

1.4. Storage reservoirs

Name: Water Plant Reservoir	Capacity: 178,000 imp. gals
Name: North Reservoir	Capacity: 50,000 imp. gals
Name: Pumphouse Reservoir	Capacity: 130,000 imp. gals

1.5. Number of connections, population served and types of water users

The Souris distribution system is comprised of 882 service connections, serving a population of 1960 people. All service connections are metered. Types of water users are domestic, commercial and agricultural. Agricultural water is provided by an automatic bulk water station located at the water treatment plant.

1.6. Classification and Certification

The Municipality of Souris-Glenwood Water Treatment Plant consists of three operators:
Don Bodin: Class 3 Water Treatment Class 2 Water Distribution
Darcy Dunbar: Class 2 Water Treatment Class 2 Water Distribution
Lee Marwick: Class 1 Water Treatment Class 1 Water Distribution
In addition to the operators being certified, the facilities are also classified as follows:
Water Treatment Facility: Class 3
Water Distribution System: Class 2

The requirements for Facility Classification and Operator Certification fall under the Water and Wastewater Facility Operators Regulation under the Environment Act.

2. Disinfection System in Use

The final step in the treatment of safe potable water is disinfection. Disinfection is the destruction or inactivation of potential disease causing organisms in water. As per the Drinking Water Safety Act the Souris Public Water System must ensure that a disinfection residual of at least:

- 0.5 mg of free chlorine per litre of water is detectable at the point where water enters the distribution system, after a minimum contact time of 20 minutes.
- 0.1 mg of free chlorine per litre of water is detectable at all times in the distribution system.

Because the Souris raw water has elevated concentrations of ammonia, it has interfered in maintaining a 0.5 mg/l of free chlorine. After an increase in the feed rate of approximately 60 % we achieved breakpoint chlorination and were able to maintain the required residual of at least 0.50 mg/l , 100 % of the time at the water treatment plant.

2.1. Type of disinfection system used

The Municipality of Souris-Glenwood disinfects using chlorine gas by ejecting it into the treated water before it enters the reservoirs.

2.2. Equipment redundancy and monitoring requirements

As required by the Drinking Water Safety Act the Souris PWS ensures continuous disinfection is maintained at the plant by keeping in stock all spare parts required for the chlorinator. A complete spare chlorinator is also kept at the plant.

Disinfectant residuals are monitored daily at the plant and bi-weekly in the distribution system and recorded on the appropriate monitoring forms. Monthly chlorination report forms are sent to the regional Drinking Water Officer at the end of each month .The public water system has also met its regulatory requirement for 2023 with regard to weekly monitoring of free ammonia 100% of the time.

2.3 Disinfection residual overall performance/ results

For 2023, the Souris Public Water System has met the regulatory requirements in regards to monitoring and reporting disinfection residuals leaving the water treatment plant 100% of the time. In the distribution system we met the standards 100% of the time in regards to monitoring and reporting.

3. List of Water Quality Standards:

The Province of Manitoba has adopted a number of water quality standards from the Guidelines for Canadian Drinking Water Quality, developed by Health Canada. The parameters are health-based and they express the maximum acceptable concentrations for a groundwater source. Concentration values in excess require corrective actions. The 2023 results for the Souris Public Water System are summarized in the following table:

Source	Parameter	Standard	Performance Objectives	Frequency	Test Results	
Groundwater	TC & EC*	No TC or EC		Bi-weekly	100% passed	
	Report Submissions			Monthly	100%	
	Disinfectant (Free Chlorine)	WTP (>0.50 mg/L)			Daily	100%
		Distribution (>0.10 mg/L)			Bi-weekly	100%
	Total Dissolved Solids		500	Every three years. * * Results from Oct 26 2021. To be tested in 2024.	307 mg/L	
	Iron		0.3		<0.046 mg/L	
	Manganese	0.12 mg/L	0.02		0.00215 mg/L	
	Arsenic	<= 0.01 mg/L			0.00073 mg/L	
	Benzene	<= 0.005 mg/L			<0.00050 mg/L	
	Fluoride	<= 1.5 mg/L			See Appendix C	
	Lead	<= 0.01 mg/L			0.000101 mg/L	
	Nitrate	<= 45mg/L as nitrate, 10mg/L as nitrogen			0.0170mg/L as N	
	Trichloroethylene	<= 0.005mg/L			<0.50 mg/L	
	Tetrachloroethylene	<= 0.01mg/L			<0.50 mg/L	
	Uranium	<= 0.02 mg/L		0.000201 mg/L		

Bacteriological Monitoring and Reporting.

	Regulatory Requirement	PWS Performance
Number of Raw/ incoming water samples	26	26
Number of treated water samples	26	26
Number of distribution water samples	26	52
Frequency of Testing	Bi-weekly	100%
Total Coliform present in samples	0 TC per 100ml	100%
E. Coli present on samples	0 EC per 100ml	100%

Treated water leaving the Souris Public Water System is below all aesthetic limits as established in the Guidelines for Canadian Drinking Water Quality and does not pose a health concern. * Bacterial testing: We test the raw water (untreated), the treated water and the water in the distribution system bi-weekly for the presence of Total Coliform (TC) and E. Coli (EC) bacteria. If these bacteria are present in the water it is an indication that disease causing organisms may also be present.

4. Water System Incidents and Corrective Actions

The Souris Public Water system was in compliance 100% of the time when using the free chlorine method of disinfection at the water treatment plant. The free residual was in compliance 100% of the time in the distribution system. We were in compliance 100 % of the time in regards to the bi-weekly sample monitoring. In regards to weekly testing for free ammonia, we were in compliance 100% of the time.

5. Additional records required

The Souris Public Water System takes part in Manitoba Health's fluoridation program. Water samples are collected on a daily basis from the treated water reservoir and tested on site. Daily fluoride results are recorded and a 14 day composite sample is submitted bi-weekly to ALS Labs in Winnipeg for analysis. (See Appendix C – 2023 Fluoridation Results). The Souris Public Water System strives to maintain a 0.70 mg/L fluoride level. The operating range for fluoride, as identified by Manitoba Health, is 0.50- 0.90 mg/L. Manitoba Health dropped the optimum level from 1.00 mg/L down to 0.70 mg/L as of March 26, 2011.

6. Drinking Water Safety Orders on your System and Actions Taken in Response

In 2023, no drinking water safety orders were issued.

7. Boil Water Advisories Issued and Actions Taken in Response

In 2023, there were 9 Boil Water Advisories issued: Feb.3 North and West of the Souris River. Rescinded Feb.8. Second issued: Feb.10 West of Plum Creek. Rescinded Feb.15. Third issued: Mar.22 West of Plum Creek. Rescinded Mar.27. Fourth issued: May 23 in Zones 1&2 (See Attached Map Appendix D). Rescinded May 26. Fifth Issued :May 23 in Zone 5 (See Attached Map Appendix D).Rescinded June 5. Sixth Issued: May 24 in Zone 3 (See Attached Map Appendix D). Rescinded June1. Seventh Issued: May 24 in Zone 4 (see Attached Map Appendix D). Rescinded June 5. Eighth Issued: May 25 in Zone 6 (See Attached Map Appendix D). Rescinded May 27. Ninth Issued: June 2 East of Souris River and North of Brindle Ave. excluding Souris Health Centre. As well as the Boil Water Advisories they were 5 Self-Managed Maintenance Advisories as follows: First Issued: May 30 in NW Souris from along 1st and 2nd Ave West of 6th st. as well as 4th Ave W. west of 6th St. Second Issued: June 20th residences 113,117,123,134,141 and 165 6th Ave E. Third Issued: June 27th residences 141 and 165 6th Ave E. Fourth Issued: Sept.25 on 4th St. S. between 7th and 8th Ave. W. Fifth Issued: Oct.17 for 2 residences on 1st Ave. E.

8. Warnings Issued or Charges Laid on the System in Accordance with The Drinking Water Safety Act

In 2023, no Warnings were Issued or Charges Laid against the Souris Public Water System.

9. Major Expenses Incurred

In 2023, the Municipality of Souris-Glenwood Public Water System installed a Generator system to keep the distribution system pressurized upon a power failure. This project cost \$270,000 but was cost shared 50/50 between the Municipality of Souris-Glenwood and Province of Manitoba. In addition, upgrades were done to both wells located on SE ¼ of 12-8-20 in rural Municipality of Souris-Glenwood at a cost of \$228,000, which was also cost shared 50/50 between the Municipality and the Province. Numerous valves and hydrants were also changed in various locations throughout the town. This project was financed entirely by the Municipality of Souris-Glenwood.

10. Future System Expansion and/or Increased Production

In 2024, the Municipality of Souris-Glenwood Public Water System will be replacing the existing gas chlorine feeding system with a liquid chlorine feed system. The cost of this project is approximately \$11,500. The Souris Public Water System will also be upgrading the SCADA and computer system at an approximate cost of \$12,000. This project is cost shared 50/50 between Municipality of Souris-Glenwood and the Province of Manitoba.

Total Metals (WATER)

		ALS ID		L2655733-1	L2655733-2
		Sampled Date		26-OCT-21	26-OCT-21
		Sampled Time		09:00	09:00
		Sample ID		SOURIS 2 - TREATED	SOURIS 1 - RAW
Analyte	Unit	Guide Limit #1	Guide Limit #2		
Aluminum (Al)-Total	mg/L	0.1	2.9	<0.0030	<0.0030
Antimony (Sb)-Total	mg/L	-	0.006	<0.00010	<0.00010
Arsenic (As)-Total	mg/L	-	0.01	0.00073	0.00226
Barium (Ba)-Total	mg/L	-	2	0.00348	0.0301
Beryllium (Be)-Total	mg/L	-	-	<0.00010	<0.00010
Bismuth (Bi)-Total	mg/L	-	-	<0.000050	<0.000050
Boron (B)-Total	mg/L	-	5	0.311	0.416
Cadmium (Cd)-Total	mg/L	-	0.005	<0.000050	<0.000050
Calcium (Ca)-Total	mg/L	-	-	27.7	94.9
Cesium (Cs)-Total	mg/L	-	-	<0.000010	<0.000010
Chromium (Cr)-Total	mg/L	-	0.05	0.00012	<0.00010
Cobalt (Co)-Total	mg/L	-	-	<0.00010	<0.00010
Copper (Cu)-Total	mg/L	1	2	0.0365	<0.00050
Iron (Fe)-Total	mg/L	0.3	-	0.046	0.59
Lead (Pb)-Total	mg/L	-	0.005	0.000101	<0.000050
Lithium (Li)-Total	mg/L	-	-	0.0436	0.147
Magnesium (Mg)-Total	mg/L	-	-	11.5	38.2
Manganese (Mn)-Total	mg/L	0.02	0.12	0.00215	0.016
Molybdenum (Mo)-Total	mg/L	-	-	0.000803	0.00341
Nickel (Ni)-Total	mg/L	-	-	<0.00050	<0.00050
Phosphorus (P)-Total	mg/L	-	-	0.630	0.074
Potassium (K)-Total	mg/L	-	-	2.39	7.35
Rubidium (Rb)-Total	mg/L	-	-	0.00112	0.00365
Selenium (Se)-Total	mg/L	-	0.05	<0.000050	0.000097
Silicon (Si)-Total	mg/L	-	-	4.28	13.7
Silver (Ag)-Total	mg/L	-	-	<0.000010	<0.000010
Sodium (Na)-Total	mg/L	200	-	66.6	164
Strontium (Sr)-Total	mg/L	-	7	0.280	0.980
Sulfur (S)-Total	mg/L	-	-	34.5	117
Tellurium (Te)-Total	mg/L	-	-	<0.00020	<0.00020
Thallium (Tl)-Total	mg/L	-	-	<0.000010	<0.000010
Thorium (Th)-Total	mg/L	-	-	<0.00010	<0.00010
Tin (Sn)-Total	mg/L	-	-	<0.00010	<0.00010

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2021)

#1: GCDWQ - Aesthetic Objective/Other Value (Jan.2020)

#2: GCDWQ - Maximum Acceptable Concentrations (MACs-Jan.2020)

 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.

Total Metals (WATER)

		ALS ID		L2655733-1	L2655733-2
		Sampled Date		26-OCT-21	26-OCT-21
		Sampled Time		09:00	09:00
		Sample ID		SOURIS 2 - TREATED	SOURIS 1 - RAW
Analyte	Unit	Guide Limit #1	Guide Limit #2		
Titanium (Ti)-Total	mg/L	-	-	<0.00030	<0.00030
Tungsten (W)-Total	mg/L	-	-	<0.00010	<0.00010
Uranium (U)-Total	mg/L	-	0.02	0.000201	0.000669
Vanadium (V)-Total	mg/L	-	-	<0.00050	<0.00050
Zinc (Zn)-Total	mg/L	5	-	0.0052	<0.0030
Zirconium (Zr)-Total	mg/L	-	-	<0.00020	<0.00020

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2021)

#1: GCDWQ - Aesthetic Objective/Other Value (Jan.2020)

#2: GCDWQ - Maximum Acceptable Concentrations (MACs-Jan.2020)


Volatile Organic Compounds (WATER)


		ALS ID		L2655733-2
		Sampled Date		26-OCT-21
		Sampled Time		09:00
		Sample ID		SOURIS 1 - RAW
Analyte	Unit	Guide Limit #1	Guide Limit #2	
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	-	-	<0.00040
Xylenes (Total)	mg/L	0.02	0.09	<0.00064
Surrogate: 4-Bromofluorobenzene (SS)	%	-	-	71.2
Surrogate: 1,4-Difluorobenzene (SS) %		-	-	81.7

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2021)

#1: GCDWQ - Aesthetic Objective/Other Value (Jan.2020)

#2: GCDWQ - Maximum Acceptable Concentrations (MACs-Jan.2020)

 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.

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Physical Tests (WATER)

		ALS ID		L2655733-1	L2655733-2
		Sampled Date		26-OCT-21	26-OCT-21
		Sampled Time		09:00	09:00
		Sample ID		SOURIS 2 - TREATED	SOURIS 1 - RAW
Analyte	Unit	Guide Limit #1	Guide Limit #2		
Colour, True	CU	15	-	<5.0	5.5
Conductivity	umhos/cm	-	-	504	1340
Hardness (as CaCO3)	mg/L	-	-	117 ^{HTC}	394 ^{HTC}
Langelier Index (4 C)	No Unit	-	-	-0.090	0.72
Langelier Index (60 C)	No Unit	-	-	0.68	1.5
pH	pH units	7.00-10.5	-	7.98	7.94
Total Dissolved Solids	mg/L	500	-	307	[REDACTED]
Transmittance, UV (254 nm)	%T/cm	-	-	90.6	76.9
Turbidity	NTU	-	-	0.12	23.5

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2021)

#1: GCDWQ - Aesthetic Objective/Other Value (Jan.2020)

#2: GCDWQ - Maximum Acceptable Concentrations (MACs-Jan.2020)

Anions and Nutrients (WATER)

		ALS ID		L2655733-1	L2655733-2
		Sampled Date		26-OCT-21	26-OCT-21
		Sampled Time		09:00	09:00
		Sample ID		SOURIS 2 - TREATED	SOURIS 1 - RAW
Analyte	Unit	Guide Limit #1	Guide Limit #2		
Alkalinity, Total (as CaCO3)	mg/L	-	-	144	389
Ammonia, Total (as N)	mg/L	-	-	<0.010	1.35
Bicarbonate (HCO3)	mg/L	-	-	175	475
Bromide (Br)	mg/L	-	-	<0.010	<0.050 ^{DM}
Carbonate (CO3)	mg/L	-	-	<0.60	<0.60
Chloride (Cl)	mg/L	250	-	14.5	30.9
Fluoride (F)	mg/L	-	1.5	0.726	0.26
Hydroxide (OH)	mg/L	-	-	<0.34	<0.34
Nitrate (as N)	mg/L	-	10	0.0170	<0.025 ^{DM}
Nitrite (as N)	mg/L	-	1	<0.0050 ^{DM}	0.0061
Sulfate (SO4)	mg/L	500	-	97.3	327

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2021)

#1: GCDWQ - Aesthetic Objective/Other Value (Jan.2020)

#2: GCDWQ - Maximum Acceptable Concentrations (MACs-Jan.2020)


Organic / Inorganic Carbon (WATER)


		ALS ID		L2655733-1	L2655733-2
		Sampled Date		26-OCT-21	26-OCT-21
		Sampled Time		09:00	09:00
		Sample ID		SOURIS 2 - TREATED	SOURIS 1 - RAW
Analyte	Unit	Guide Limit #1	Guide Limit #2		
Dissolved Organic Carbon	mg/L	-	-	1.44	4.15
Total Organic Carbon	mg/L	-	-	1.56	4.08

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2021)

#1: GCDWQ - Aesthetic Objective/Other Value (Jan.2020)

#2: GCDWQ - Maximum Acceptable Concentrations (MACs-Jan.2020)

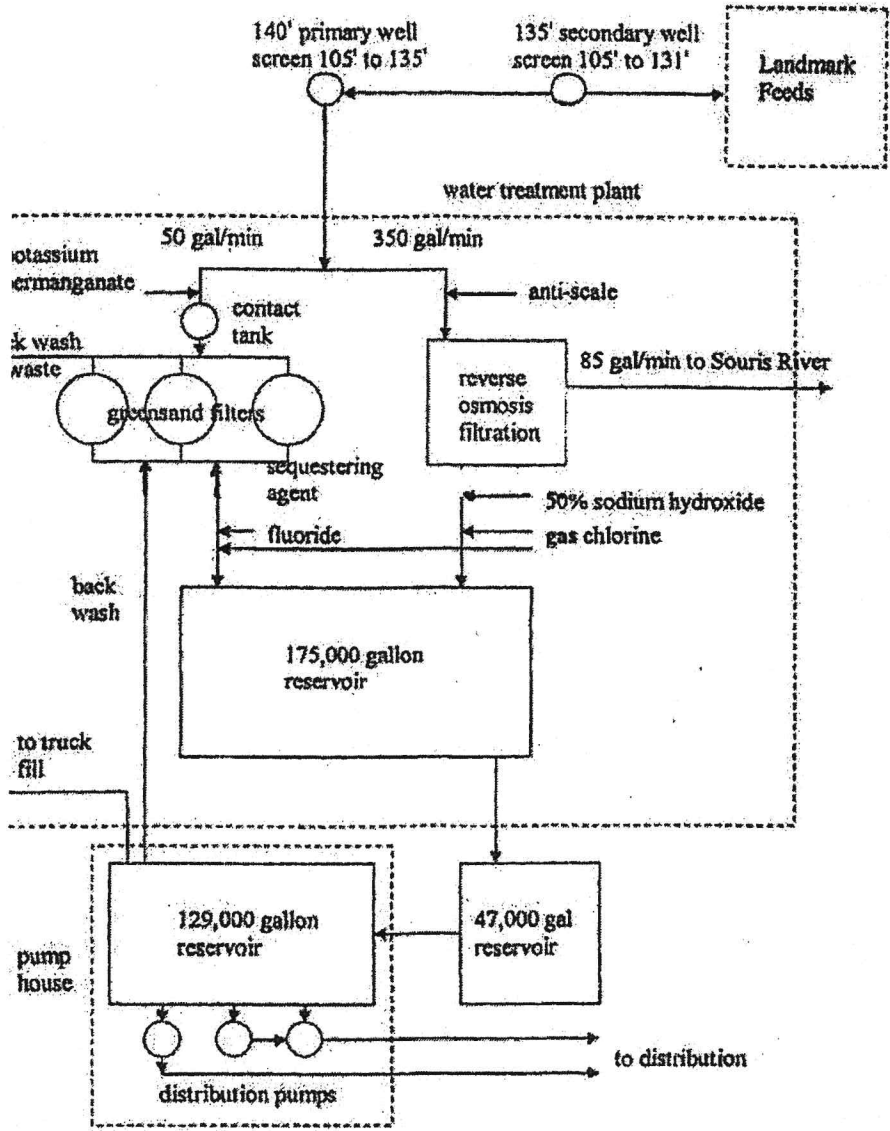
 Detection Limit for result exceeds Guide Limit. Assessment against Guide Limit cannot be made.

 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.

Souris Water Treatment Plant

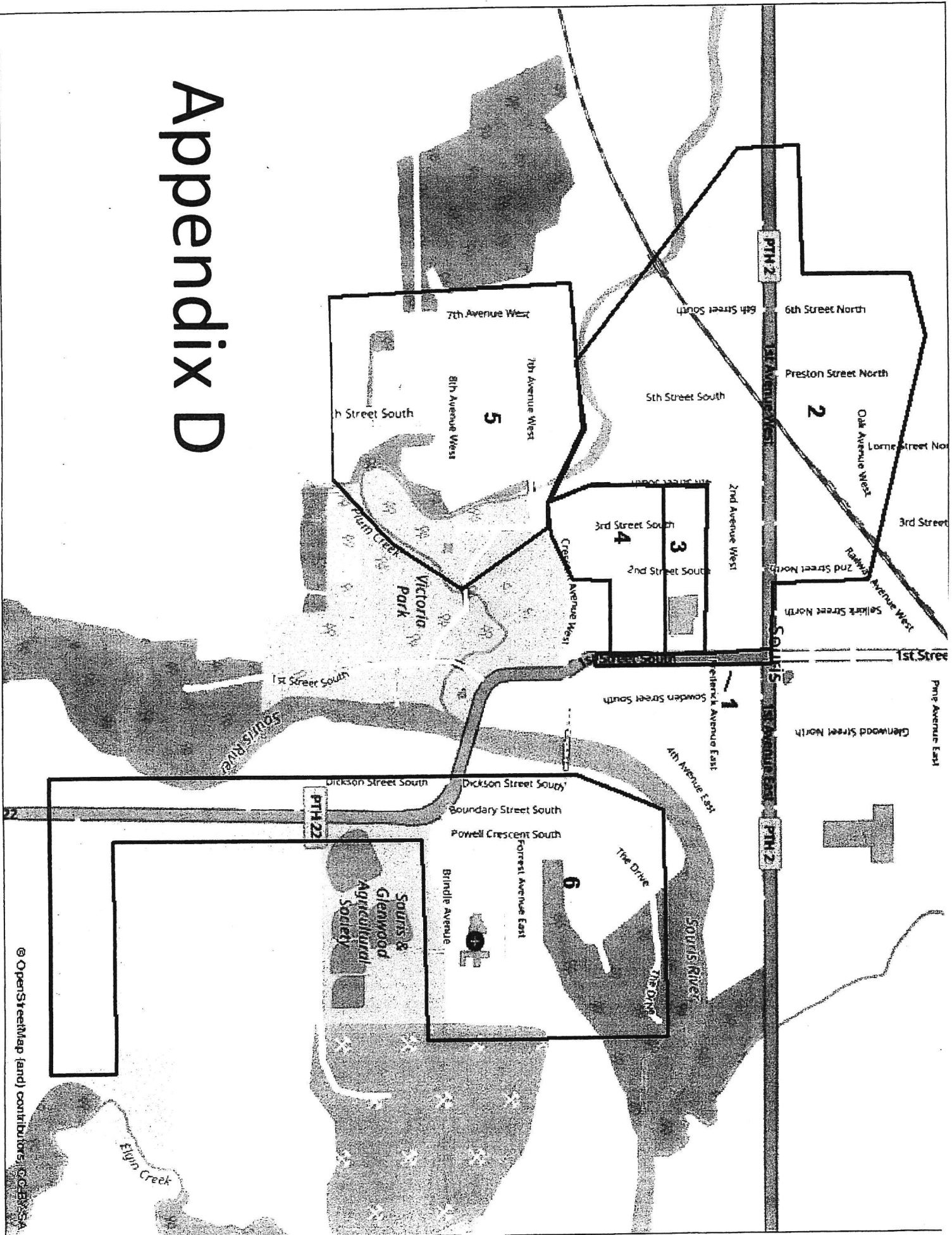
Appendix B



Fluoridation Results 2023 Appendix C

Date:	Reading
1. Dec.31/22 – Jan.13/23	0.84 mg/L
2. Jan.14 – Jan.27	0.93 mg/L
3. Jan.28 –Feb.10	0.90 mg/L
4. Feb.11 – Feb.24	0.90 mg/L
5. Feb.25 – Mar.10	0.89 mg/L
6. Mar.11 – Mar.24	0.87 mg/L
7. Mar.25 – Apr.07	0.92 mg/L
8. Apr.08 – Apr.21	0.80 mg/L
9. Apr.22 – May 05	0.89 mg/L
10. May 06 – May 19	0.81 mg/L
11. May 20 – June 02	0.80 mg/L
12. June 03 – June 16	0.92 mg/L
13. June 17 – June 30	0.89 mg/L
14. July 01 – July 14	0.91 mg/L
15. July 15 – July 28	0.86 mg/L
16. July 29 – Aug.11	0.83 mg/L
17. Aug.12 – Aug.25	0.87 mg/L
18. Aug.26 – Sept. 08	0.88 mg/L
19. Sept.09 – Sept.22	0.88 mg/L
20. Sept.23– Oct.06	0.83 mg/L
21. Oct.07 – Oct.20	0.88 mg/L
22. Oct.21 – Nov.03	0.91 mg/L
23. Nov.04 – Nov.17	0.91 mg/L
24. Nov.18 – Dec.01	0.84 mg/L
25. Dec.02 – Dec.15	0.77 mg/ L
26. Dec.16- Dec.29	0.93 mg/L

Appendix D



In regards to the 2023 Annual Report the general public was advised of this report in the local newspaper The Boissevain Recorder and also on the town website at www.sourismanitoba.com. Copies of this report can be obtained at the town office 100 2nd St. S. free of charge or on the town website. This report will be made available and posted on the town website April 1, 2024.

Prepared by: Municipality of Souris-Glenwood Staff