



***2021 Annual Water Report***

***Environment, Climate and Parks- Birds Hill Provincial Park***

***Public Water System: PWS-11-500***

***Water system code: 22.50, Group Use Area 2***

***Operation ID: 27066***

2021-Annual Report

Birds Hill Group Use 2: Public Water System

Name of Legal Owner: Manitoba Environment, Climate and Parks

Contact Person: Kathleen Brown

District Park Manager, Phone: 204-654-6730 Email: [Kathleen.brown@gov.mb.ca](mailto:Kathleen.brown@gov.mb.ca)

Website where annual report accessed: <https://www.gov.mb.ca/sd/parks/park-maps-and-locations/central/birds.html>

Name of Water Operator in Charge: Al Tomiuk

Name of Operators-In-Training: Kathleen Anson

Phone number during business hours: 204-654-6730

Report Date: March 31, 2022

Prepared By: Kathleen Brown, Park District Manager

## REPORT REQUIREMENTS

1. A brief description of the drinking water system, including its water supply source;
2. A description of the disinfection methods used, and a summary of disinfectant residual test results
3. A list of all bacteriological, chemical, radiological, physical and microbial drinking water quality standards that apply to the water system, and a summary of analysis results for each parameter before and after treatment
4. A summary of any incidents of failure to meet a drinking water quality standard, and a description of corrective action or other remedial measures taken in each case;
5. A description of any drinking water safety orders issued in relation to the system, and of action taken in response to each one
6. A description of any boil water advisories issued in relation to the system, and of action taken in response to each one
7. A summary of any charges laid
8. A description of any major expenses incurred to repair, replace or install equipment

## **1. Description of the drinking water system- 22.50-Group Use Area 2**

The Group Use Area 2 is a public water system that operates seasonally. The system operates from mid-May to mid-October. Ground water is drawn from two primary, secure wells and is then treated with Sodium Hypochlorite. The treated water moves through a series of chlorine tanks, to ensure the 20 minute required contact time is met.

The water is treated with a 12% Sodium Hypochlorite solution that is injected into the water with a diaphragm pump. The chlorine readings of the water leaving the facility have to have a “Free Chlorine” reading of 0.50 mg/L as per the regulations. Water in the distribution system must meet at minimum, 0.1mg/L that is the free chlorine distribution standard.

Disinfectant residuals free and total are monitored daily, seven (7) days a week and bi-weekly in the distribution system. Raw water is sampled bi-weekly for various parameters set out in the applicable license All information is recorded on the appropriate monitoring forms. Monthly report forms are provided to the Province’s Regional Drinking Water Officer at the end of each month. All samples are submitted bi-weekly to ALS environmental for testing.

## **2. Summary of disinfectant residual test results**

The table below lists the water quality standards that apply to the public water system. An analytical report was compiled in August 2020.

Parameter	Quality Standard	BIRDS HILL GROUP USE (#2) - RAW WELL #1	BIRDS HILL GROUP USE (#2) - RAW WELL #2	BIRDS HILL GROUP USE (#2) - 2 - TREATED	BIRDS HILL GROUP USE (#2) - 3 - DIST'N
<b>Total Coliform</b>	<1 per 100ml	0	0	0	0
<b>E. Coli</b>	<1 per 100ml	0	0	0	0
<b>Chlorine Residual</b>				0.5mg/L	0.1mg/L
<b>Arsenic</b>	Less than or equal to 0.01mg/L	0.0132	0.0108	0.0109	0.0106
<b>Benzene</b>	Less than or equal to 0.005mg/L	<0.00050	<0.00050	n/a	n/a
<b>Ethylbenzene</b>	Less than or equal to 0.14mg/L	<0.00050	<0.00050		
<b>Fluoride</b>	Less than or equal to 1.5mg/L	0.225	0.358	0.246	0.230
<b>Lead</b>	Less than or equal to 0.005 mg/L	0.0132	0.0108	0.0109	0.0106
<b>Nitrate</b>	Less than or equal to 45mg/L measured as nitrate(10mg/L)Nitrogen	<0.0050	<0.0050	<0.0050	
<b>Nitrite</b>	Less than or equal to 3mg/L measured as nitrite (1mg/L)Nitrogen	<0.0010	<0.0010	<0.0010	
<b>Trichloroethylene</b>	Less than or equal to 0.00050mg/L	<0.00050	<0.00050		
<b>Tetrachloroethylene</b>	Less than or equal to 0.01	<0.00050	<0.00050		
<b>Toluene</b>	Less than or equal to 0.06mg/L	<0.00050	<0.00050		
<b>Total Xylenes</b>	Less than or equal to 0.09mg/L	<0.00064	<0.00064		
<b>Uranium</b>	Less than or equal to 0.02mg/L	0.000256		0.000258	

### **3. Summary of bacteriological Test results**

A summary of bacteriological test results are listed in the table below. The facility was not operational until August due to the covid 19 pandemic gathering restriction prevented bookings in this area; it was then closed for the season September 17. Daily residuals were recorded using an approved format and submitted to the Drinking Water Officer, on a monthly basis. Standards were met 100% of the operating season

CODE	TC	EC	COLLECTION DATE	Sample Type	Sample Identification	Sample Number
22.50	0	0	04-Aug-21	DRINKING WATER - RAW	BIRDS HILL GROUP USE #2 1 - RAW (WELL #2)	L2621993-2
22.50	0	0	04-Aug-21	DRINKING WATER - TREATED	BIRDS HILL GROUP USE #2 2 - TREATED	L2621993-3
22.50	0	0	04-Aug-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL GROUP USE #2 3 - DISTRIBUTION @ SHELTER 5	L2621993-4
22.50	0	0	05-Aug-21	DRINKING WATER - RAW	BIRDS HILL GROUP USE #2 1 - RAW (WELL #2)	L2622733-2
22.50	0	0	05-Aug-21	DRINKING WATER - TREATED	BIRDS HILL GROUP USE #2 2 - TREATED	L2622733-3
22.50	0	0	05-Aug-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL GROUP USE #2 3 - DISTRIBUTION	L2622733-4
22.50	0	0	23-Aug-21	DRINKING WATER - RAW	BIRDS HILL GROUP USE #2 1 - RAW (WELL #2)	L2630370-2
22.50	0	0	23-Aug-21	DRINKING WATER - TREATED	BIRDS HILL GROUP USE #2 2 - TREATED	L2630370-3
22.50	0	0	23-Aug-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL GROUP USE #2 3 - DISTRIBUTION - FIRST STANDPIPE	L2630370-4
22.50	0	0	07-Sep-21	DRINKING WATER - RAW	BIRDS HILL GROUP USE #2 1 - RAW (WELL #2)	L2636049-2
22.50	0	0	07-Sep-21	DRINKING WATER - TREATED	BIRDS HILL GROUP USE #2 2 - TREATED	L2636049-3
22.50	0	0	07-Sep-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL GROUP USE #2 3 - DISTRIBUTION @ STANDPIPE	L2636049-4

**4. Summary of any incidents of failure to meet a drinking water quality standard**

Drinking water quality standards were met 100% of the operating season. Water system was compliant in the audited time period.

**5. A description of any drinking water safety orders issued in relation to the system, and of action taken in response to each one**

There were no safety orders issued to the system in the operating year.

**6. A description of any boil water advisories issued in relation to the system, and of action taken in response to each one**

Boil water advisory notices were posted on all water taps in the area that the public has access to, as the plant was not operational until later in the season. When public health orders were lifted on gathering sizes the system was tested and operational from August to September.

**7. A summary of any charges laid**

There were no charges laid pursuant to The Drinking Water Safety Act and no more corrective actions were required.

**8. A description of any major expenses incurred to repair, replace or install equipment**

There were no major repairs or upgrades required for the water system in 2021. The Office of Drinking Water did not require any additional records either. Our operators have completed training to keep and advance their licences to work effectively in this water system network. Group Use Area 2, operates as a class 2 facility, the operator in charge has the required operator licence to run the facility.

**Paper copies of this report will be available at the Environment, Climate and Parks Birds Hill District Office for public viewing. The address is 72 Nimowin Rd, Birds Hill Park.**

**This report can also be accessed online on the Manitoba Parks webpage at:**

<https://gov.mb.ca/sd/parks/park-maps-and-locations/central/birds.html>







***2021 Annual Water Report***

***Environment, Climate and Parks- Birds Hill Provincial Park***

***Public Water System: PWS-11-496-02***

***Water system code: 22.00, South Pumphouse***

***Operation ID: 27064***

2021-Annual Report

Birds Hill South Pump house: Public Water System

Name of Legal Owner: Manitoba Environment, Climate and Parks

Contact Person: Kathleen Brown

District Park Manager, Phone: 204-654-6730 Email: [Kathleen.brown@gov.mb.ca](mailto:Kathleen.brown@gov.mb.ca)

Website where annual report accessed: <https://www.gov.mb.ca/sd/parks/park-maps-and-locations/central/birds.html>

Name of Water Operator in Charge: Al Tomiuk

Name of Operators-In-Training: Kathleen Anson

Phone number during business hours: 204-654-6730

Report Date: March 31, 2022

Prepared By: Kathleen Brown, Park District Manager

## REPORT REQUIREMENTS

1. A brief description of the drinking water system, including its water supply source;
2. A description of the disinfection methods used, and a summary of disinfectant residual test results
3. A list of all bacteriological, chemical, radiological, physical and microbial drinking water quality standards that apply to the water system, and a summary of analysis results for each parameter before and after treatment
4. A summary of any incidents of failure to meet a drinking water quality standard, and a description of corrective action or other remedial measures taken in each case;
5. A description of any drinking water safety orders issued in relation to the system, and of action taken in response to each one
6. A description of any boil water advisories issued in relation to the system, and of action taken in response to each one
7. A summary of any charges laid
8. A description of any major expenses incurred to repair, replace or install equipment

## **1. Description of the drinking water system- 22.25-North Pump house**

The South pump house is a public water system that operates seasonally, from May to October.

The south pump house, draws its water from 2 secure wells and then it's treated with Sodium Hypochlorite. The treated water is moved through a series of chlorine tanks to ensure the 20 minute required contact time is met.

The water is treated with a 12% Sodium Hypochlorite solution that is injected into the water with a diaphragm pump. The chlorine readings of the water leaving the facility have to have a "Free Chlorine" reading of 0.50 mg/L as per the regulations. Water in the distribution system must meet at minimum, 0.1mg/L that is the free chlorine distribution standard.

Disinfectant residuals free and total are monitored daily, seven (7) days a week and bi-weekly in the distribution system. Raw water is sampled bi-weekly for various parameters set out in the applicable license All information is recorded on the appropriate monitoring forms. Monthly report forms are provided to the Province's Regional Drinking Water Officer at the end of each month. All samples are submitted bi-weekly to ALS environmental for testing.

## **2. Summary of disinfectant residual test results**

The table below lists the water quality standards that apply to the public water system. An analytical report was compiled in August 2020.

Parameter	Quality Standard	BIRDS HILL South (#2) - RAW WELL #1	BIRDS HILL South (#2) - RAW WELL #2	BIRDS HILL South (#2) - 2 - TREATED	BIRDS HILL South (#2) - 3 - DIST'N
<b>Total Coliform</b>	<1 per 100ml	0	0	0	0
<b>E. Coli</b>	<1 per 100ml	0	0	0	0
<b>Chlorine Residual</b>				0.5mg/L	0.1mg/L
<b>Arsenic</b>	Less than or equal to 0.01mg/L	0.00216	0.00154	0.00156	0.00144
<b>Benzene</b>	Less than or equal to 0.005mg/L	<0.00050	<0.00050		
<b>Ethylbenzene</b>	Less than or equal to 0.14mg/L	<0.00050	<0.00050		
<b>Fluoride</b>	Less than or equal to 1.5mg/L	0.130	0.132	0.133	
<b>Lead</b>	Less than or equal to 0.005 mg/L	0.000219	0.000146	<0.000050	<0.000050

<b>Nitrate</b>	Less than or equal to 45mg/L measured as nitrate(10mg/L)Nitrogen	<0.0050	<0.0050	<0.0050	
<b>Nitrite</b>	Less than or equal to 3mg/L measured as nitrite (1mg/L)Nitrogen	<0.0010	<0.0010	<0.0010	
<b>Trichloroethylene</b>	Less than or equal to 0.00050mg/L	<0.00050	<0.00050		
<b>Tetrachloroethylene</b>	Less than or equal to 0.01	<0.00050	<0.00050		
<b>Toluene</b>	Less than or equal to 0.06mg/L	<0.00050	<0.00050		
<b>Total Xylenes</b>	Less than or equal to 0.09mg/L	<0.00064	<0.00064		
<b>Uranium</b>	Less than or equal to 0.02mg/L	0.000694	0.000811	0.000822	0.000692

### **3. Summary of bacteriological Test results**

A summary of bacteriological test results are listed in the table below. Daily residuals were recorded using an approved format and submitted to the Drinking Water Officer, on a monthly basis. Standards were met 100% of the operating season

CODE	TC	EC	COLLECTIO N DATE	Sample Type	Sample Identification	Sample Number
22.00	0	0	10-May-21	DRINKING WATER - RAW	BIRDS HILL SOUTH 1 - RAW @1	L2585603-1
22.00	0	0	10-May-21	DRINKING WATER - TREATED	BIRDS HILL SOUTH 2 - TREATED	L2585603-2
22.00	0	0	10-May-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL SOUTH 3 - DIST. CAMPGROUND OFFICE FURTHEST POINT	L2585603-3
22.00	0	0	10-May-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL SOUTH - RAW #2	L2585603-4
22.00	0	0	11-May-21	DRINKING WATER - RAW	BIRDS HILL SOUTH 1 - RAW @1	L2586316-1
22.00	0	0	11-May-21	DRINKING WATER - TREATED	BIRDS HILL SOUTH 2 - TREATED	L2586316-2
22.00	0	0	11-May-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL SOUTH 3 - DISTRIBUTION - CAMPGROUND OFFICE	L2586316-3
22.00	0	0	11-May-21	DRINKING WATER - RAW	BIRDS HILL SOUTH - RAW 2	L2586316-4
22.00	0	0	25-May-21	DRINKING WATER - RAW	BIRDS HILL SOUTH 1 - RAW @1	L2591831-1
22.00	0	0	25-May-21	DRINKING WATER - TREATED	BIRDS HILL SOUTH 2 - TREATED	L2591831-2
22.00	0	0	25-May-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL SOUTH 3 - DIST - CAMPGROUND OFFICE R/S	L2591831-3
22.00	0	0	07-Jun-21	DRINKING WATER - RAW	BIRDS HILL SOUTH 1 - RAW @	L2597628-1
22.00	0	0	07-Jun-21	DRINKING WATER - TREATED	BIRDS HILL SOUTH 2 - TREATED	L2597628-2

22.00	0	0	07-Jun-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL SOUTH 3 - DIST @ CHIPPING 2ND TAP	L2597628-3
22.00	0	0	22-Jun-21	DRINKING WATER - RAW	BIRDS HILL SOUTH 1 - RAW @ 1	L2604608-1
22.00	0	0	22-Jun-21	DRINKING WATER - TREATED	BIRDS HILL SOUTH 2 - TREATED	L2604608-2
22.00	0	0	22-Jun-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL SOUTH 3 - DIST @ SAGE 1ST STANDPIPE	L2604608-3
22.00	0	0	05-Jul-21	DRINKING WATER - RAW	BIRDS HILL SOUTH 1 - RAW @	L2609458-1
22.00	0	0	05-Jul-21	DRINKING WATER - TREATED	BIRDS HILL SOUTH 2 - TREATED	L2609458-2
22.00	0	0	05-Jul-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL SOUTH 3 - DIST @ SONG LIFT STATION TAP	L2609458-3
22.00	0	0	19-Jul-21	DRINKING WATER - RAW	BIRDS HILL SOUTH 1 - RAW @ 1	L2615393-1
22.00	0	0	19-Jul-21	DRINKING WATER - TREATED	BIRDS HILL SOUTH 2 - TREATED	L2615393-2
22.00	0	0	19-Jul-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL SOUTH 3 - DIST @ ROBIN BAY STANDPIPE	L2615393-3
22.00	0	0	03-Aug-21	DRINKING WATER - RAW	BIRDS HILL SOUTH 1 - RAW @ 2	L2621810-1
22.00	0	0	03-Aug-21	DRINKING WATER - TREATED	BIRDS HILL SOUTH 2 - TREATED	L2621810-2
22.00	0	0	03-Aug-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL SOUTH 3 - DISTRIBUTION @ THRUS 1ST TAP	L2621810-3
22.00	0	0	16-Aug-21	DRINKING WATER - RAW	BIRDS HILL SOUTH 1 - RAW @ 1	L2627195-1
22.00	0	0	16-Aug-21	DRINKING WATER - TREATED	BIRDS HILL SOUTH 2 - TREATED	L2627195-2
22.00	0	0	16-Aug-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL SOUTH 3 - DIST @ DUMP STATION DRINKING WATER LEFT	L2627195-3
22.00	0	0	30-Aug-21	DRINKING WATER - RAW	BIRDS HILL SOUTH 1 - RAW @ 2	L2633139-1
22.00	0	0	30-Aug-21	DRINKING WATER - TREATED	BIRDS HILL SOUTH 2 - TREATED	L2633139-2
22.00	0	0	30-Aug-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL SOUTH 3 - DISTRIBUTION @ VESPER 2ND TAP	L2633139-3
22.00	0	0	27-Sep-21	DRINKING WATER - RAW	BIRDS HILL SOUTH 1 - RAW @ 2	L2644006-1
22.00	0	0	27-Sep-21	DRINKING WATER - TREATED	BIRDS HILL SOUTH 2 - TREATED	L2644006-2
22.00	0	0	27-Sep-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL SOUTH 3 - DISTRIBUTION @ DUMP STATION (LEFT)	L2644006-3

#### **4. Summary of any incidents of failure to meet a drinking water quality standard**

Drinking water standards were met 100% of the time. Water system was compliant in the audited time period.

**5. A description of any drinking water safety orders issued in relation to the system, and of action taken in response to each one**

There were no safety orders issued to the system in the operating year.

**6. A description of any boil water advisories issued in relation to the system, and of action taken in response to each one**

There were no boil water advisories issued in relation to the system.

**7. A summary of any charges laid**

There were no charges laid pursuant to The Drinking Water Safety Act and no more corrective actions were required.

**8. A description of any major expenses incurred to repair, replace or install equipment**

There were no major expenses incurred to repair, replace or install equipment. The south treatment plant was upgraded 2 years ago.

Our operators have completed training to keep and advance their licences to work effectively in this water system network. The South pump house, operates as a class 2 facility, the operator in charge has the required operator licence to run the facility.

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<https://gov.mb.ca/sd/parks/park-maps-and-locations/central/birds.html>



***2021 Annual Water Report***

***Environment, Climate and Parks- Birds Hill Provincial Park***

***Public Water System: PWS-11-497-02***

***Water system code: 22.25, North Pumphouse***

***Operation ID: 27065***



2021-Annual Report

Birds Hill North Pump house: Public Water System

Name of Legal Owner: Manitoba Environment, Climate and Parks

Contact Person: Kathleen Brown

District Park Manager, Phone: 204-654-6730 Email: [Kathleen.brown@gov.mb.ca](mailto:Kathleen.brown@gov.mb.ca)

Website where annual report accessed: <https://www.gov.mb.ca/sd/parks/park-maps-and-locations/central/birds.html>

Name of Water Operator in Charge: Al Tomiuk

Name of Operators-In-Training: Kathleen Anson

Phone number during business hours: 204-654-6730

Report Date: March 31, 2022

Prepared By: Kathleen Brown, Park District Manager

## REPORT REQUIREMENTS

1. A brief description of the drinking water system, including its water supply source;
2. A description of the disinfection methods used, and a summary of disinfectant residual test results
3. A list of all bacteriological, chemical, radiological, physical and microbial drinking water quality standards that apply to the water system, and a summary of analysis results for each parameter before and after treatment
4. A summary of any incidents of failure to meet a drinking water quality standard, and a description of corrective action or other remedial measures taken in each case;
5. A description of any drinking water safety orders issued in relation to the system, and of action taken in response to each one
6. A description of any boil water advisories issued in relation to the system, and of action taken in response to each one
7. A summary of any charges laid
8. A description of any major expenses incurred to repair, replace or install equipment

## 1. Description of the drinking water system- 22.25-North Pump house

The North pump house is a public water system that operates year round. Ground water is drawn from two primary, secure wells and is then treated with Sodium Hypochlorite. It is then sent out into the distribution system.

The water is treated with a 12% Sodium Hypochlorite solution that is injected into the water with a diaphragm pump. The chlorine readings of the water leaving the facility have to have a “Free Chlorine” reading of 0.50 mg/L as per the regulations. Water in the distribution system must meet at minimum, 0.1mg/L that is the free chlorine distribution standard.

Disinfectant residuals free and total are monitored daily, seven (7) days a week and bi-weekly in the distribution system. Raw water is sampled bi-weekly for various parameters set out in the applicable license All information is recorded on the appropriate monitoring forms. Monthly report forms are provided to the Province’s Regional Drinking Water Officer at the end of each month. All samples are submitted bi-weekly to ALS environmental for testing.

## 2. Summary of disinfectant residual test results

The table below lists the water quality standards that apply to the public water system. An analytical report was compiled in August 2020.

Parameter	Quality Standard	BIRDS HILL North (#2) - RAW WELL #1	BIRDS HILL North (#2) - RAW WELL #2	BIRDS HILL North (#2) - 2 - TREATED	BIRDS HILL North (#2) - 3 – DIST’N
<b>Total Coliform</b>	<1 per 100ml	0	0	0	0
<b>E. Coli</b>	<1 per 100ml	0	0	0	0
<b>Chlorine Residual</b>				0.5mg/L	0.1mg/L
<b>Arsenic</b>	Less than or equal to 0.01mg/L	0.00070	0.00024	0.00023	0.00040
<b>Benzene</b>	Less than or equal to 0.005mg/L	<0.00050	<0.00050		
<b>Ethylbenzene</b>	Less than or equal to 0.14mg/L	<0.00050	<0.00050		
<b>Fluoride</b>	Less than or equal to 1.5mg/L	0.088	0.081	0.080	
<b>Lead</b>	Less than or equal to 0.005 mg/L	0.000478	0.000252	0.000193	<0.000050
<b>Nitrate</b>	Less than or equal to 45mg/L measured as nitrate(10mg/L)Nitrogen	0.0500	0.494	0.487	
<b>Nitrite</b>	Less than or equal to 3mg/L measured as nitrite (1mg/L)Nitrogen	<0.0010	0.0011	<0.0010	

<b>Trichloroethylene</b>	Less than or equal to 0.00050mg/L	<0.00050	<0.00050		
<b>Tetrachloroethylene</b>	Less than or equal to 0.01	<0.00050	<0.00050		
<b>Toluene</b>	Less than or equal to 0.06mg/L	<0.00050	<0.00050		
<b>Total Xylenes</b>	Less than or equal to 0.09mg/L	<0.00064	<0.00064		
<b>Uranium</b>	Less than or equal to 0.02mg/L	0.000919	0.000999	0.000972	0.000955

### **3. Summary of bacteriological Test results**

A summary of bacteriological test results are listed in the table below. Daily residuals were recorded using an approved format and submitted to the Drinking Water Officer, on a monthly basis. Standards were met 99% of the operating season

<b>CODE</b>	<b>TC</b>	<b>EC</b>	<b>COLLECT ION DATE</b>	<b>Sample Type</b>	<b>Sample Identification</b>	<b>Sample Number</b>
22.25	0	0	07-Jan-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW (WELL #1)	L2546022-1
22.25	0	0	07-Jan-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2546022-3
22.25	0	0	07-Jan-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @ RANCH WASHROOM	L2546022-4
22.25	0	0	18-Jan-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW (WELL #1)	L2548964-1
22.25	0	0	18-Jan-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2548964-3
22.25	0	0	18-Jan-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @	L2548964-4
22.25	0	0	01-Feb-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW (WELL #1)	L2553170-1
22.25	0	0	01-Feb-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2553170-3
22.25	0	0	01-Feb-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @ RANCH WASHROOM	L2553170-4
22.25	0	0	18-Feb-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW (WELL #1)	L2558800-1
22.25	0	0	18-Feb-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2558800-3
22.25	0	0	18-Feb-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @RANCH WASHROOM	L2558800-4
22.25	0	0	15-Mar-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @	L2566701-1
22.25	0	0	15-Mar-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2566701-2
22.25	0	0	15-Mar-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION - RANCH WASHROOM	L2566701-3
22.25	0	0	12-Apr-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 1	L2575404-1

22.25	0	0	12-Apr-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2575404-2
22.25	0	0	12-Apr-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION	L2575404-3
22.25	0	0	12-Apr-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 2 - RAW @ 2	L2575404-4
22.25	0	0	13-Apr-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @	L2575995-1
22.25	0	0	13-Apr-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2575995-2
22.25	0	0	13-Apr-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION	L2575995-3
22.25	0	0	13-Apr-21	DRINKING WATER - RAW	BIRDS HILL NORTH 2 - RAW@2	L2575995-4
22.25	0	0	14-Apr-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW 1	L2576412-1
22.25	0	0	14-Apr-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2576412-2
22.25	0	0	14-Apr-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION	L2576412-3
22.25	0	0	14-Apr-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW 2	L2576412-4
22.25	0	0	26-Apr-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 1	L2580152-1
22.25	0	0	26-Apr-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2580152-2
22.25	0	0	26-Apr-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DIST - RANCH WASHROOM WOMEN'S LEFT	L2580152-3
22.25	0	0	17-May-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @	L2588891-1
22.25	0	0	17-May-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2588891-2
22.25	0	0	17-May-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @ HILLTOP 3+4 MEN'S	L2588891-3
22.25	0	0	31-May-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @	L2594815-1
22.25	0	0	31-May-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2594815-2
22.25	0	0	31-May-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DIST@ HILLTOP 3TH WOMEN'S (R)	L2594815-3
22.25	0	0	14-Jun-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 2	L2600743-1
22.25	0	0	14-Jun-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2600743-2
22.25	0	0	14-Jun-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @ HILLTOP WOMEN'S (RIGHT)	L2600743-3
22.25	0	0	28-Jun-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 1	L2607113-1
22.25	0	0	28-Jun-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2607113-2
22.25	0	0	28-Jun-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DIST @ WEST BEACH STANDPIPE	L2607113-3
22.25	0	0	12-Jul-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 1	L2612433-1
22.25	0	0	12-Jul-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2612433-2

22.25	0	0	12-Jul-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DIST. @ 2ND STANDPIPE FROM WEST BEACH	L2612433-3
22.25	0	0	13-Jul-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 1	L2613001-1
22.25	0	0	13-Jul-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2613001-2
22.25	0	0	13-Jul-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DIST. @ 2ND STANDPIPE FROM WEST BEACH	L2613001-3
22.25	0	0	26-Jul-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 1	L2618402-1
22.25	0	0	26-Jul-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2618402-2
22.25	0	0	26-Jul-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @ HILLTOP #2 (NORTH EAST)	L2618402-3
22.25	0	0	09-Aug-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 2	L2624120-1
22.25	0	0	09-Aug-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2624120-2
22.25	0	0	09-Aug-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @ SHELTER#3 (NORTHWEST)	L2624120-3
22.25	0	0	16-Aug-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 1	L2627122-1
22.25	0	0	16-Aug-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2627122-2
22.25	0	0	16-Aug-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DIST @ EAST BECH WOMEN'S 1ST TAP	L2627122-3
22.25	>200	0	17-Aug-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 2	L2627386-1
22.25	0	0	17-Aug-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2627386-2
22.25	0	0	17-Aug-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3-DIST@ WOMEN'S WEST BEACH WASHROOM (RIGHT)	L2627386-3
22.25	0	0	19-Aug-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 2	L2629188-1
22.25	0	0	23-Aug-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @	L2630373-1
22.25	0	0	23-Aug-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2630373-2
22.25	0	0	23-Aug-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DIST - HILLTOP 1+2 WOMEN'S (RIGHT)	L2630373-3
22.25	0	0	07-Sep-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @	L2636159-1
22.25	0	0	07-Sep-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2636159-2
22.25	0	0	07-Sep-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @ SHELTER #3 (SOUTH EAST)	L2636159-3
22.25	0	0	15-Sep-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 1	L2639848-1
22.25	0	0	15-Sep-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2639848-2
22.25	0	0	15-Sep-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @ SHELTER #2 (NE)	L2639848-3
22.25	0	0	20-Sep-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 1	L2641234-1

22.25	0	0	20-Sep-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2641234-2
22.25	0	0	20-Sep-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DIST @ EAST BEACH WOMEN'S (RIGHT)	L2641234-3
22.25	0	0	04-Oct-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 2	L2646704-1
22.25	0	0	04-Oct-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2646704-2
22.25	0	0	04-Oct-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @ SHELTER #1 (NE)	L2646704-3
22.25	0	0	18-Oct-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 1	L2652113-1
22.25	0	0	18-Oct-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2652113-2
22.25	0	0	18-Oct-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @ RANCH WOMAN'S (LEFT)	L2652113-3
22.25	0	0	01-Nov-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 2	L2657621-1
22.25	0	0	01-Nov-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2657621-2
22.25	0	0	01-Nov-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION - RANCH WOMAN'S (LEFT)	L2657621-3
22.25	0	0	15-Nov-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 1	L2662635-1
22.25	0	0	15-Nov-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2662635-2
22.25	0	0	15-Nov-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @ RANCH WASHROOM WOMEN'S	L2662635-3
22.25	0	0	29-Nov-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @	L2667266-1
22.25	0	0	29-Nov-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2667266-2
22.25	0	0	29-Nov-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION	L2667266-3
22.25	0	0	13-Dec-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @	L2671918-1
22.25	0	0	13-Dec-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2671918-2
22.25	0	0	13-Dec-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @ RANCH MEN'S WASHROOM	L2671918-3
22.25	0	0	29-Dec-21	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW (WELL #1)	L2675934-1
22.25	0	0	29-Dec-21	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2675934-2
22.25	0	0	29-Dec-21	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @	L2675934-3

#### **4. Summary of any incidents of failure to meet a drinking water quality standard**

Drinking water quality standards were met approximately 99% of the operating season. On August 17, 2021 a sample was analyzed and came back above the quality standard. A resample was taken 24 hours later and quality standards were met. No other incidents occurred during the year. Water system was compliant in the audited time period.

#### **5. A description of any drinking water safety orders issued in relation to the system, and of action taken in response to each one**

There were no safety orders issued to the system in the operating year.

#### **6. A description of any boil water advisories issued in relation to the system, and of action taken in response to each one**

A Boil water advisory was issued for the north pump house on August 13 as there was a loss of pressure detected in the distribution system due to a power outage. The office of drinking water was contacted. An immediate BOIL WATER ADVISORY was issued. All of the water stands in the distribution network were tagged with the notice and the reason for the advisory. The Birds Hill Park ranch was also notified of the advisory. The north pump house is not equipped with source for a generator so if there is a power outage the generator is not able to provide power.

#### **7. A summary of any charges laid**

There were no charges laid pursuant to The Drinking Water Safety Act and no more corrective actions were required.

#### **8. A description of any major expenses incurred to repair, replace or install equipment**

Upgrades are required to the north pump house treatment plant. System is failing to meet primary disinfection requirements of 20 minute chlorine contact time. This was communicated by Office of the drinking water. Request has been submitted by district



staff for capital funding. Proper permit procedures and consultation with the office of drinking water will be followed before construction.

Our operators have completed training to keep and advance their licences to work effectively in this water system network. The north pump house, operates as a class 2 facility, the operator in charge has the required operator licence to run the facility.

**Paper copies of this report will be available at the Environment, Climate and Parks Birds Hill District Office for public viewing. The address is 72 Nimowin Rd, Birds Hill Park.**

**This report can also be accessed online on the Manitoba Parks webpage at:**

<https://gov.mb.ca/sd/parks/park-maps-and-locations/central/birds.html>