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Marc Balcaen, Supervisor, Drinking Water Officer
Environment and Climate
1007 Century Street
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T-204-945-2454
marc.balcaen@gov.mb.ca

Dear Marc Balcaen,

Please accept the annual drinking water reports for 22.00 Birds Hill South, 22.25 Birds Hill North and 22.50 Birds Hill Group Use 2, and 22.60 Birds Hill Folk fest for the 2022 operating season, in Birds Hill Provincial Park.

These reports will be available online for the public to view by April 15, 2022 on the Manitoba Parks website at
<https://gov.mb.ca/sd/parks/park-maps-and-locations/central/birds.html>

Free paper copies will be available for the public at the Birds Hill District office located on Nimowin Road. A copy can be emailed to the public upon request.

A notice will be placed on the Manitoba Parks website, directing the public to where the reports can be viewed.

The annual report will be available to the public for one year.

Sincerely,

Kathleen Brown
Park District Manager,
Birds Hill Provincial Park



2022 Annual Water Report

Natural Resources and Northern Development- Birds Hill Provincial Park

Public Water System: PWS-11-501-02

Water system code: 22.60, Folk festival

Operation ID: 42851

2022-Annual Report

Birds Hill Folk festival site: Public Water System

Name of Legal Owner: Natural Resources and Northern Development

Contact Person: Kathleen Brown

District Park Manager, Phone: 204-654-6730 Email: 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, 2023

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- 22.60-Folk Festival Site

The Folk festival is a public water system that operates seasonally from June to July. 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 1.0mg/L 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, the remaining data is from monitoring during the 2022 operating season.

Parameter	Quality Standard	BIRDS HILL FOLK FEST - RAW WELL #1	BIRDS HILL FOLK FEST - RAW WELL #2	BIRDS HILL FOLK FEST - 2 - TREATED	BIRDS HILL FOLK FEST - 3 - DIST'N
Total Coliform	<1 per 100ml	0	0	0	0
E. Coli	<1 per 100ml	0	0	0	0
Chlorine Residual	1.0 mg/L			0.5mg/L	0.1mg/L
Arsenic	Less than or equal to 0.01mg/L	0.0132	0.0108	0.0109	0.0106
Benzene	Less than or equal to 0.005mg/L	<0.00050	<0.00050	n/a	n/a
Ethylbenzene	Less than or equal to 0.14mg/L	<0.00050	<0.00050		
Fluoride	Less than or equal to 1.5mg/L	0.225	0.358	0.246	0.230
Lead	Less than or equal to 0.005 mg/L	0.0132	0.0108	0.0109	0.0106
Maganese	0.05mg/L	0.00915		0.00968	
Nitrate	Less than or equal to 45mg/L measured as nitrate(10mg/L)Nitrogen	<0.0050	<0.0050	<0.0050	
Nitrite	Less than or equal to 3mg/L measured as nitrite (1mg/L)Nitrogen	<0.0010	<0.0010	<0.0010	
Trichloroethylene	Less than or equal to 0.00050mg/L	<0.00050	<0.00050		
Tetrachloroethylene	Less than or equal to 0.01	<0.00050	<0.00050		
Toluene	Less than or equal to 0.06mg/L	<0.00050	<0.00050		
Total Xylenes	Less than or equal to 0.09mg/L	<0.00064	<0.00064		
Uranium	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 operational from June to July. 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. 3 Additional distribution samples were taken during the Winnipeg Folk festival period.

CODE	TC	EC	COLLECTION DATE	Sample Type	Sample Identification	Sample Number
22.60	0	0	27-Jun-22	DRINKING WATER - RAW	BIRDS HILL FOLK FESTIVAL 1 - RAW	L2718267-1
22.60	0	0	27-Jun-22	DRINKING WATER - TREATED	BIRDS HILL FOLK FESTIVAL 2 - TREATED	L2718267-2
22.60	0	0	27-Jun-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL FOLK FESTIVAL 3-TREATED	L2718267-3
22.60	0	0	28-Jun-22	DRINKING WATER - RAW	BIRDS HILL FOLK FESTIVAL 1 - RAW @2	L2718558-1
22.60	0	0	28-Jun-22	DRINKING WATER - TREATED	BIRDS HILL FOLK FESTIVAL 2 - TREATED	L2718558-2
22.60	0	0	28-Jun-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL FOLK FESTIVAL 3 - DISTRIBUTION	L2718558-3
22.60	0	0	11-Jun-22	DRINKING WATER - RAW	BIRDS HILL FOLK FESTIVAL 1 - RAW	L2721413-1
22.60	0	0	11-Jun-22	DRINKING WATER - TREATED	BIRDS HILL FOLK FESTIVAL 2 - TREATED	L2721413-2
22.60	0	0	11-Jun-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL FOLK FESTIVAL 3 - DISTRIBUTION - FIRST STANDPIPE	L2721413-3
22.60	0	0	13-Jun-22	DRINKING WATER - RAW	BIRDS HILL FOLK FESTIVAL 1 - RAW	L2718269-1
22.60	0	0	13-Jun-22	DRINKING WATER - TREATED	BIRDS HILL FOLK FESTIVAL 2 - TREATED	L2718269-2
22.60	0	0	13-Jun-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL FOLK FESTIVAL 3 - DISTRIBUTION	L2718269-3
22.60	0	0	25-Jul-22	DRINKING WATER - RAW	BIRDS HILL FOLK FESTIVAL 1 - RAW	L2724463-1
22.60	0	0	25-Jul-22	DRINKING WATER - TREATED	BIRDS HILL FOLK FESTIVAL 1-TREATED	L2724463-2
22.60	0	0	25-Jul-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL FOLK FESTIVAL DISTRIBUTIN STANDPIPE	L2724463-3

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

There were no boil water advisories issued to this water system during the operating season

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 2022. 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>



2022 Annual Water Report

Natural Resources and Northern Development- Birds Hill Provincial Park

Public Water System: PWS-11-500

Water system code: 22.50, Group Use Area 2

Operation ID: 27066

2022-Annual Report

Birds Hill Group Use 2: Public Water System

Name of Legal Owner: Natural Resources and Northern Development

Contact Person: Kathleen Brown

District Park Manager, Phone: 204-654-6730 Email: 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, 2023

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.

Parameter	Monitoring Requirement
Bacteriological (total coliform and <i>E. coli</i>)	Biweekly sampling program with each set of samples consisting of one raw, one treated, and a minimum of one distribution sample An additional distribution system sample to be submitted during the Winnipeg Folk Festival Consecutive sample sets to be separated by at least 12 days
Free Chlorine (treated water)	One sample per day of water entering the distribution system following at least 20 minutes of contact time Four samples per day of water entering the distribution system following at least 20 minutes of contact time during the Winnipeg Folk Festival

Free Chlorine (distribution system)	At the same times and location(s) as bacteriological distribution system sampling
Total Chlorine (treated water)	One sample per day of water entering the distribution system following at least 20 minutes of contact time
	Four samples per day of water entering the distribution system following at least 20 minutes of contact time during the Winnipeg Folk Festival
Total Chlorine (distribution system)	At the same times and location(s) as bacteriological distribution system sampling
General Chemistry (parameter list provided by Office of Drinking Water)	One raw and one treated water sample once every three years
Total Metals (distribution system)	One sample taken at the same time(s) as General Chemistry sampling at a mid-point in the distribution system
Arsenic	One raw and one treated water sample taken during May and August every year
Lead	As per the instructions of the drinking water officer
Manganese	Monitoring included in the General Chemical and Total Metals analysis
Other Parameters	As per the instructions of the drinking water officer

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, the remaining data is from monitoring during the 2022 operating season.

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
Total Coliform	<1 per 100ml	0	0	0	0
E. Coli	<1 per 100ml	0	0	0	0
Chlorine Residual	0.5mg/L			0.5mg/L	0.1mg/L
Arsenic	Less than or equal to 0.01mg/L	0.0132	0.0108	0.0109	0.0106
Benzene	Less than or equal to 0.005mg/L	<0.00050	<0.00050	n/a	n/a
Ethylbenzene	Less than or equal to 0.14mg/L	<0.00050	<0.00050		
Fluoride	Less than or equal to 1.5mg/L	0.225	0.358	0.246	0.230
Lead	Less than or equal to 0.005 mg/L	0.0132	0.0108	0.0109	0.0106
Maganese	Less than or equal to 0.12 mg/L	0.00531		0.00537	
Nitrate	Less than or equal to 45mg/L measured as nitrate(10mg/L)Nitrogen	<0.0050	<0.0050	<0.0050	
Nitrite	Less than or equal to 3mg/L measured as nitrite (1mg/L)Nitrogen	<0.0010	<0.0010	<0.0010	
Trichloroethylene	Less than or equal to 0.00050mg/L	<0.00050	<0.00050		
Tetrachloroethylene	Less than or equal to 0.01	<0.00050	<0.00050		
Toluene	Less than or equal to 0.06mg/L	<0.00050	<0.00050		
Total Xylenes	Less than or equal to 0.09mg/L	<0.00064	<0.00064		
Uranium	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 operational from May to October. 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	30-May-22	DRINKING WATER - RAW	BIRDS HILL GROUP USE #2 1 - RAW (WELL #2)	L2710402-1
22.50	0	0	30-May-22	DRINKING WATER - TREATED	BIRDS HILL GROUP USE #2 2 - TREATED	L2710402-2
22.50	0	0	30-May-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL GROUP USE #2 3 - DISTRIBUTION @ SHELTER 5	L2710402-3
22.50	0	0	31-May-22	DRINKING WATER - RAW	BIRDS HILL GROUP USE #2 1 - RAW (WELL #2)	L2710888-1
22.50	0	0	31-May-22	DRINKING WATER - TREATED	BIRDS HILL GROUP USE #2 2 - TREATED	L2710888-2
22.50	0	0	31-May-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL GROUP USE #2 3 - DISTRIBUTION	L2710888-3
22.50	0	0	13-Jun-22	DRINKING WATER - RAW	BIRDS HILL GROUP USE #2 1 - RAW (WELL #2)	L2714376-1
22.50	0	0	13-Jun-22	DRINKING WATER - TREATED	BIRDS HILL GROUP USE #2 2 - TREATED	L2714376-2
22.50	0	0	13-Jun-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL GROUP USE #2 3 - DISTRIBUTION - FIRST STANDPIPE	L2714376-3
22.50	0	0	27-Jun-22	DRINKING WATER - RAW	BIRDS HILL GROUP USE #2 1 - RAW (WELL #2)	L2718269-1
22.50	0	0	27-Jun-22	DRINKING WATER - TREATED	BIRDS HILL GROUP USE #2 2 - TREATED	L2718269-2
22.50	0	0	27-Jun-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL GROUP USE #2 3 - DISTRIBUTION @ STANDPIPE	L2718269-3
22.50	0	0	11-Jul-22	DRINKING WATER - RAW	BIRDS HILL GROUP USE #2 1 - RAW (WELL #2)	L2721405-1
22.50	0	0	11-Jul-22	DRINKING WATER - TREATED	BIRDS HILL GROUP USE #2 1-TREATED	L2721405-2
22.50	0	0	11-Jul-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL GROUP USE #2 DISTRIBUTION STANDPIPE	L2721405-3
22.50	0	0	25-Jul-22	DRINKING WATER - RAW	BIRDS HILL GROUP USE #2 1 - RAW (WELL #2)	L2724432-1
22.50	0	0	25-Jul-22	DRINKING WATER - TREATED	BIRDS HILL GROUP USE #2 1-TREATED	L2724432-2
22.50	0	0	25-Jul-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL GROUP USE #2 3 - DISTRIBUTION @ STANDPIPE	L2724432-3
22.50	0	0	08-Aug-22	DRINKING WATER - RAW	BIRDS HILL GROUP USE #2 1 - RAW (WELL #2)	L2727055-1
22.50	0	0	08-Aug-22	DRINKING WATER - TREATED	BIRDS HILL GROUP USE #2 1-TREATED	L2727055-2
22.50	0	0	08-Aug-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL GROUP USE #2 3 - DISTRIBUTION @ STANDPIPE	L2727055-3
22.50			22-Aug-22	DRINKING WATER - RAW	BIRDS HILL GROUP USE #2 1 - RAW (WELL #2)	L2729407-1

22.50	0	0	22-Aug-22	DRINKING WATER - TREATED	BIRDS HILL GROUP USE #2 1-TREATED	L2729407-2
22.50	0	0	22-Aug-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL GROUP USE #2 3 - DISTRIBUTION @ STANDPIPE	L2729407-3
22.50	0	0	23-Aug-22	DRINKING WATER - RAW	BIRDS HILL GROUP USE #2 1 - RAW (WELL #2)	L2729556-1
22.50	0	0	06-Sep-22	DRINKING WATER - RAW	BIRDS HILL GROUP USE #2 1 - RAW (WELL #2)	L2731493-1
22.50	0	0	06-Sep-22	DRINKING WATER - TREATED	BIRDS HILL GROUP USE #2 1-TREATED	L2731493-2
22.50	0	0	06-Sep-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL GROUP USE #2 3 - DISTRIBUTION @ STANDPIPE	L2731493-3
22.50	0	0	20-Sep-22	DRINKING WATER - RAW	BIRDS HILL GROUP USE #2 1 - RAW (WELL #2)	L2733464-1
22.50	0	0	20-Sep-22	DRINKING WATER - TREATED	BIRDS HILL GROUP USE #2 1-TREATED	L2733464-2
22.50	0	0	20-Sep-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL GROUP USE #2 3 - DISTRIBUTION @ STANDPIPE	L2733464-3

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

Non-compliant incidents for Birds Hill Group Use #2. Free and total chlorine residuals were not measured for 3 days in August and 12 days in September. As the system was noted as closed on September 25, both the free and total chlorine residuals were required to be measured on a daily basis per operating licence until the system closes.

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 to this water system during the operating season

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 2022. 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>



2022 Annual Water Report

Natural Resources and Northern Development- Birds Hill Provincial Park

Public Water System: PWS-11-496-02

Water system code: 22.00, South Pump house

Operation ID: 27064

2022-Annual Report

Birds Hill South Pump house: Public Water System

Name of Legal Owner: Natural Resources and Northern Development

Contact Person: Kathleen Brown

District Park Manager, Phone: 204-654-6730 Email: 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, 2023

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 the remaining data is from monitoring during the regular operating season.

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
Total Coliform	<1 per 100ml	0	0	0	0
E. Coli	<1 per 100ml	0	0	0	0
Chlorine Residual				0.5mg/L	0.1mg/L
Arsenic	Less than or equal to 0.01mg/L	0.00216	0.00154	0.00156	0.00144
Benzene	Less than or equal to 0.005mg/L	<0.00050	<0.00050		
Ethylbenzene	Less than or equal to 0.14mg/L	<0.00050	<0.00050		
Fluoride	Less than or equal to 1.5mg/L	0.130	0.132	0.133	
Lead	Less than or equal to 0.005 mg/L	0.000219	0.000146	<0.000050	<0.000050

Maganese	0.05 mg/L	.00917		.0202	
Nitrate	Less than or equal to 45mg/L measured as nitrate(10mg/L)Nitrogen	<0.0050	<0.0050	<0.0050	
Nitrite	Less than or equal to 3mg/L measured as nitrite (1mg/L)Nitrogen	<0.0010	<0.0010	<0.0010	
Trichloroethylene	Less than or equal to 0.00050mg/L	<0.00050	<0.00050		
Tetrachloroethylene	Less than or equal to 0.01	<0.00050	<0.00050		
Toluene	Less than or equal to 0.06mg/L	<0.00050	<0.00050		
Total Xylenes	Less than or equal to 0.09mg/L	<0.00064	<0.00064		
Uranium	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	COLLECTION DATE	Sample Type	Sample Identification	Sample Number
22.00	0	0	10-May-22	DRINKING WATER - RAW	BIRDS HILL SOUTH 1 - RAW @1	L2704919-1
22.00	0	0	10-May-22	DRINKING WATER - TREATED	BIRDS HILL SOUTH 2 - TREATED	L2704919-2
22.00	0	0	10-May-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL SOUTH 3 - DIST. CAMPGROUND OFFICE FURTHEST POINT	L2585603-3
22.00	0	0	11-May-22	DRINKING WATER - RAW	BIRDS HILL SOUTH 1 - RAW @1	L2705495-1
22.00	0	0	11-May-22	DRINKING WATER - TREATED	BIRDS HILL SOUTH 2 - TREATED	L2705495-2
22.00	0	0	11-May-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL SOUTH 3 - DISTRIBUTION	L2705495-3
22.00	0	0	24-May-22	DRINKING WATER - RAW	BIRDS HILL SOUTH 1 - RAW @1	L2708659-1
22.00	0	0	24-May-22	DRINKING WATER - TREATED	BIRDS HILL SOUTH 2 - TREATED	L2708659-2
22.00	0	0	24-May-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL SOUTH 3 - DIST - SONG BAY STANDPIPE	L2708659-3
22.00	0	0	06-Jun-22	DRINKING WATER - RAW	BIRDS HILL SOUTH 1 - RAW @ 2	L27112536-1
22.00	0	0	06-Jun-22	DRINKING WATER - TREATED	BIRDS HILL SOUTH 2 - TREATED	L27112536-2
22.00	0	0	06-Jun-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL SOUTH 3 - DISTRIBUTION	L27112536-3
22.00	0	0	20-Jun-22	DRINKING WATER - RAW	BIRDS HILL SOUTH 1 - RAW @ 1	L2716271-1
22.00	0	0	20-Jun-22	DRINKING WATER - TREATED	BIRDS HILL SOUTH 2 - TREATED	L2716271-2

22.00	0	0	20-Jun-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL SOUTH 3 - DIST @ GRACKLE BAY 3 RD PIPESTAND	L2716271-3
22.00	0	0	04-Jul-22	DRINKING WATER - RAW	BIRDS HILL SOUTH 1 - RAW @	L27119672-1
22.00	0	0	04-Jul-22	DRINKING WATER - TREATED	BIRDS HILL SOUTH 2 - TREATED	L27119672-2
22.00	0	0	04-Jul-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL SOUTH 3 - DISTRIBUTION	L27119672-3
22.00	0	0	18-Jul-22	DRINKING WATER - RAW	BIRDS HILL SOUTH 1 - RAW @ 1	L2722875-3
22.00	0	0	18-Jul-22	DRINKING WATER - TREATED	BIRDS HILL SOUTH 2 - TREATED	L2615393-2
22.00	0	0	18-Jul-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL SOUTH 3 - DIST @ VESPER 3 RD STANDPIPE	L2615393-3
22.00	0	0	02-Aug-22	DRINKING WATER - RAW	BIRDS HILL SOUTH 1 - RAW @ 1	L2725951-1
22.00	0	0	02-Aug-22	DRINKING WATER - TREATED	BIRDS HILL SOUTH 2 - TREATED	L2725951-2
22.00	0	0	02-Aug-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL SOUTH 3 - DISTRIBUTION @ CAMPGROUND OFFICE	L2725951-3
22.00	0	0	15-Aug-22	DRINKING WATER - RAW	BIRDS HILL SOUTH 1 - RAW @ 1	L2728259-1
22.00	0	0	15-Aug-22	DRINKING WATER - TREATED	BIRDS HILL SOUTH 2 - TREATED	L2728259-2
22.00	0	0	15-Aug-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL SOUTH 3 - DIST @ SONG LIFT STATION	L2728259-3
22.00	0	0	28-Aug-22	DRINKING WATER - RAW	BIRDS HILL SOUTH 1 - RAW @ 1	L2730479-1
22.00	0	0	28-Aug-22	DRINKING WATER - TREATED	BIRDS HILL SOUTH 2 - TREATED	L2730479-2
22.00	0	0	28-Aug-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL SOUTH 3 - DISTRIBUTION @ SAGE STANDPIPE	L2730479-3
22.00	0	0	12-Sep-22	DRINKING WATER - RAW	BIRDS HILL SOUTH 1 - RAW @ 1	L2732380-1
22.00	0	0	12-Sep-22	DRINKING WATER - TREATED	BIRDS HILL SOUTH 2 - TREATED	L2732380-2
22.00	0	0	12-Sep-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL SOUTH 3 - DISTRIBUTION @ TREE 8	L2732380-3
22.00	0	0	26-Sep-22	DRINKING WATER - RAW	BIRDS HILL SOUTH 1 - RAW @ 1	L2734223-1
22.00	0	0	26-Sep-22	DRINKING WATER - TREATED	BIRDS HILL SOUTH 2 - TREATED	L2734223-2
22.00	0	0	26-Sep-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL SOUTH 3 - DISTRIBUTION @ VESPER STANDPIPE	L2734223-3

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 3 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.

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>



2022 Annual Water Report

Natural Resources and Northern Development- Birds Hill Provincial Park

Public Water System: PWS-11-497-02

Water system code: 22.25, North Pumphouse

Operation ID: 27065

2022-Annual Report

Birds Hill North Pump house: Public Water System

Name of Legal Owner: Natural Resources and Northern Development

Contact Person: Kathleen Brown

District Park Manager, Phone: 204-654-6730 Email: 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, 2023

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, the remaining data is from monitoring during the regular operating season.

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
Total Coliform	<1 per 100ml	0	0	0	0
E. Coli	<1 per 100ml	0	0	0	0
Chlorine Residual				0.5mg/L	0.1mg/L
Arsenic	Less than or equal to 0.01mg/L	0.00070	0.00024	0.00023	0.00040
Benzene	Less than or equal to 0.005mg/L	<0.00050	<0.00050		
Ethylbenzene	Less than or equal to 0.14mg/L	<0.00050	<0.00050		
Fluoride	Less than or equal to 1.5mg/L	0.088	0.081	0.080	
Lead	Less than or equal to 0.005 mg/L	0.000478	0.000252	0.000193	<0.000050
Maganese	0.05 mg/L	.0173		.0142	
Nitrate	Less than or equal to 45mg/L measured as nitrate(10mg/L)Nitrogen	0.0500	0.494	0.487	

Nitrite	Less than or equal to 3mg/L measured as nitrite (1mg/L)Nitrogen	<0.0010	0.0011	<0.0010	
Trichloroethylene	Less than or equal to 0.00050mg/L	<0.00050	<0.00050		
Tetrachloroethylene	Less than or equal to 0.01	<0.00050	<0.00050		
Toluene	Less than or equal to 0.06mg/L	<0.00050	<0.00050		
Total Xylenes	Less than or equal to 0.09mg/L	<0.00064	<0.00064		
Uranium	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 100% of the operating season

CODE	TC	EC	COLLECT ION DATE	Sample Type	Sample Identification	Sample Number
22.25	0	0	17-Jan-22	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW (WELL #1)	L2679206-1
22.25	0	0	17-Jan-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2679206-2
22.25	0	0	17-Jan-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @ RANCH WASHROOM	L2679206-4
22.25	0	0	31-Jan-22	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW (WELL #2)	L2682293-1
22.25	0	0	31-Jan-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2682293-2
22.25	0	0	31-Jan-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @ RANCH WASHROOM	L2682293-4
22.25	0	0	14-Feb-22	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW (WELL #1)	L2685559-1
22.25	0	0	14-Feb-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2685559-2
22.25	0	0	14-Feb-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @ RANCH WASHROOM	L2685559-4
22.25	0	0	28-Feb-22	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW (WELL #2)	L2688783-1
22.25	0	0	28-Feb-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2688783-2
22.25	0	0	28-Feb-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @RANCH WASHROOM	L2688783-3
22.25	0	0	14-Mar-22	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ WELL 1	L2692023-1
22.25	0	0	14-Mar-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2692023-2

22.25	0	0	14-Mar-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION - RANCH WASHROOM	L2692023-4
22.25	0	0	28-Mar-22	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ WELL #1	L2695001-1
22.25	0	0	28-Mar-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2695001-2
22.25	0	0	28-Mar-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION	L2695001-4
22.25	0	0	11-Apr-22	DRINKING WATER - RAW	BIRDS HILL NORTH 2 - RAW @ 2	L2698183-1
22.25	0	0	11-Apr-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2698183-2
22.25	0	0	11-Apr-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @RANCH WASHROOM	L2698183-4
22.25	0	0	25-Apr-22	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW 1	L2700875-1
22.25	0	0	25-Apr-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2700875-2
22.25	0	0	25-Apr-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION RANCH WASHROOM	L2700875-4
22.25	0	0	10-May-22	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW 2	L2704929-1
22.25	0	0	10-May-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2704929-2
22.25	0	0	10-May-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DIST - RANCH WOMEN'S WASHROOM	L2704929-4
22.25	0	0	24-May-22	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ WELL # 1	L2708661-1
22.25	0	0	24-May-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2708661-2
22.25	0	0	24-May-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION RANCH WASHROOM	L2708661-4
22.25	0	0	06-Jun-22	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ WELL #2	L2712538-1
22.25	0	0	06-Jun-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2712538-2
22.25	0	0	06-Jun-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DIST@ WEST BEACH PARKING LOT	L2712538-3
22.25	0	0	20-Jun-22	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 1	L2716265-1
22.25	0	0	20-Jun-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2716265-2
22.25	0	0	20-Jun-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @ HILLTOP WOMEN'S (LEFT)	L2716265-3
22.25	0	0	04-Jul-22	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 2	L2719675-1
22.25	0	0	04-Jul-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2719675-2
22.25	0	0	04-Jul-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DIST @ WEST BEACH STANDPIPE	L2719675-3
22.25	0	0	18-Jul-22	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 1	L2722876-1
22.25	0	0	18-Jul-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2722876-2
22.25	0	0	18-Jul-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DIST. @ HILL TOP 1-2 WASHROOM	L2722876-3

22.25	0	0	02-Aug-22	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 2	L2725947-1
22.25	0	0	02-Aug-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2725947-2
22.25	0	0	02-Aug-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DIST. @ 2ND STANDPIPE FROM WEST BEACH	L2725947-3
22.25	0	0	15-Aug-22	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 1	L2728261-1
22.25	0	0	15-Aug-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2728261-2
22.25	0	0	15-Aug-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @ WEST BEACH WOMENS	L2728261-3
22.25	0	0	28-Aug-22	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 2	L2730481-1
22.25	0	0	28-Aug-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2730481-2
22.25	0	0	28-Aug-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @ SHELTER#3 (HILLTOP)	L2730481-3
22.25	0	0	12-Sept-22	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 2	L2732379-1
22.25	0	0	12-Sept-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2732379-2
22.25	0	0	12-Sept-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DIST @ EAST BECH WOMEN'S 1ST TAP	L2732379-3
22.25	0	0	26-Sept-22	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 1	L2734222-1
22.25	0	0	26-Sept-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2734222-2
22.25	0	0	26-Sept-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3-DIST@ WOMEN'S WEST BEACH WASHROOM (RIGHT)	L2734222-3
22.25	0	0	11-Oct-22	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 1	L2736188-1
22.25	0	0	11-Oct-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2736188-2
22.25	0	0	11-Oct-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DIST - RANCH WOMEN'S	L2736188-3
22.25	0	0	24-Oct-22	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 1	L2737673-1
22.25	0	0	24-Oct-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2737673-2
22.25	0	0	24-Oct-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @ RANCH WASHROOM	L2737673-3
22.25	0	0	08-Nov-22	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 1	L2739657-1
22.25	0	0	08-Nov-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2739657-2
22.25	0	0	08-Nov-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @ RANCH WASHROOM	L2739657-3
22.25	0	0	25-Nov-22	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 1	L2741565-1
22.25	0	0	25-Nov-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2741565-2
22.25	0	0	25-Nov-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DIST @ RANCH WASHROOM	L2741565-3

22.25	0	0	06-Dec-22	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 2	L2742503-1
22.25	0	0	06-Dec-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2742503-2
22.25	0	0	06-Dec-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @ WASHROOM	L2742503-3
22.25	0	0	22-Dec-22	DRINKING WATER - RAW	BIRDS HILL NORTH 1 - RAW @ 1	L2743767-1
22.25	0	0	22-Dec-22	DRINKING WATER - TREATED	BIRDS HILL NORTH 2 - TREATED	L2743767-2
22.25	0	0	22-Dec-22	DRINKING WATER - DISTRIBUTION	BIRDS HILL NORTH 3 - DISTRIBUTION @ RANCH WOMEN'S (LEFT)	L2743767-3

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

Drinking water standards were met 100% of the operating season.

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 for the operating season.

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.

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