

REGIONAL DISTRICT OF NANAIMO

Water Service Area Annual Report 2018



Rollo McClay Community Park **Water System**

June 2019

REGIONAL DISTRICT OF NANAIMO







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1. Introduction

The following annual report describes the Rollo McClay Community Park Water System and summarizes the water quality, the completed and proposed maintenance activities, Operator Certification, the Emergency Response Plan, and the Cross Connection Control Program for the year 2018. This report is to be submitted to Island Health by the spring of 2019.

2. Rollo McClay Community Park Water System

The Rollo McClay Community Park was created in 1990 as part of a residential subdivision (Plan No. VIP51655). The park was operated and maintained by Gabriola Island residents until the Regional District acquired the park later in the 1990's. The park comprises an area of 7.8 hectares (19 acres) on the north side of Gabriola Island, and is accessed from McClay Way. Drinking water is trucked-in from Parksville and stored in one cistern on site. The water is only used for sinks and washrooms in the concession building. A map of the Rollo McClay Community Park Water System is provided in Appendix A for reference.

2.1 Groundwater Wells

The Rollo McClay Community Park well has not been used for several years, and as recently decommissioned. Please see the well closure log in Appendix B.

2.2 Reservoirs

One polyethylene cistern is located inside the concession stand building. The cistern has a capacity of 5.5 m³ (1,200 imperial gallons).



Rollo McClay Concession Building





2.3 Distribution System

There is no water distribution system in Rollo McClay Park. The cistern located inside the concession building supplies potable water to the kitchen and bathrooms. There are no fire hydrants in this water system.

3. Water Sampling and Testing Program

Water sampling and testing is carried out monthly in the concession building. The following table includes a summary of all testing:

| Timing | Location | Tests | | | | | |
|---------------------------------------|-------------------------------------|--|--|--|--|--|--|
| Monthly: May-Oct (Closed: Nov-Apr) | BC Centre for Disease Control | Total coliforms, E.Coli | | | | | |
| Annually (April) | Bureau Veritas (formerly Maxxam) | Complete potability testing of treated water (trucked-in, source is from San Pareil) | | | | | |

4. Water Quality - Distribution System

Drinking water is trucked-in to the Rollo McClay Park from an RDN-owned water system near Parksville, using an RDN-owned truck and tank. The delivery of potable water was determined to be less costly than using the well and water treatment system on-site. Trucking in water has been ongoing since 2015.

The trucked-in water has a chlorine residual upon arrival at Rollo McClay Park, and chlorine residuals are tested regularly by the park operator to ensure no bacterial regrowth occurs in the cistern. The water stored in the cistern does not have a high turnover rate, so the park operator adds liquid chlorine manually, as required.

Tap water test results are provided at the end of this report under Appendix B. Bacteriological results are posted on the Vancouver Island Health Authority (VIHA) website at: http://www.healthspace.ca/Clients/VIHA/VIHA Website.nsf/Water-Samples-Frameset? , then click on Gabriola Island, and then click Rollo McClay Community Park Water.



Rollo McClay Water Cistern





5. Water Quality Inquiries and Complaints

No complaints were received from the Rollo McClay Community Park Water System users. RDN staff have a good line of communication with the park users and are notified if water is required during the normal shut-down period.

A summary of the water system incidents in 2018 is given in the table below.

| Activity in 2018 | Date(s) | History/Notes | | | |
|-----------------------|---------|---------------|--|--|--|
| Boil Water Advisories | None | None | | | |
| High Turbidity Events | None | None | | | |
| Equipment Malfunction | None | None | | | |
| Water Main Breaks | None | None | | | |
| Pump Failures | None | None | | | |

6. Groundwater Production and Consumption

The volume of water consumed at the concession stand is not metered. However, the volume of water trucked-in with the RDN tank is estimated to be 8 cubic meters per month (x 6 months/year).

7. Maintenance Program

Chlorine residuals are taken and recorded 2-3 times weekly by the local water system operator on Gabriola Island while the concession building is open (summer months only). The operator contacts RDN staff weekly to coordinate water hauling.

The water storage cistern is drained for the winter season, and cleaned/disinfected every Spring before being filled. Twenty-four hour on-call coverage is in place to respond to water system emergencies.

8. Operator Certification

The Regional District Water & Utility Services staff is comprised of one Manager, one Project Engineer, one Engineering Technologist, one Engineering Technician, one Chief Operator, and seven certified operators. The Park Operator has the Small Water Systems Operator certification. The operators receive ongoing training and certification in:

- ✓ Water Treatment
- ✓ Water Distribution
- Wastewater Collection
- Cross Connection Control
- ✓ Asbestos Awareness
- ✓ Chlorine Handling
- WHMIS (Workplace Hazardous Material Information System)
- ✓ TDG (Transportation of Dangerous Goods)
- ✓ Confined Space Awareness
- ✓ Traffic Control
- ✓ Fall Protection
- First Aid





9. Water System Projects

9.1 <u>2018 Completed Studies & Projects</u>

- Decommissioned the Rollo McClay well (see Well Closure Report in Appendix B);
- Completed a Cross Connection Control Bylaw in draft format;
- Updated the online GIS Water Map for aquifer and watershed info;
- Maintained a high level of water quality;
- Continued quality control through regular testing and monitoring of water system;
- Updated the online GIS Water Map update for aquifer and watershed info;
- Initiated a New Drinking Water and Watershed Protection Action Plan;
- Completed Water Conservation Evaluation Report;
- Completed additional educational programs.



Rollo McClay Wellhead Decommissioned

9.2 <u>2019 Proposed Projects & Upgrades</u>

- Adopt Cross Connection Control Bylaw;
- Implement a Water Systems SCADA Master Plan;
- Complete Water Systems Condition Assessment project;
- Begin DWWP Water Conservation Plan development;
- Implement new Drinking Water and Watershed Protection Action Plan;
- Continue to offer numerous water-saving incentives via rebates;
- Develop Cross Connection Control educational material.

10. Emergency Response Plan

The Regional District Emergency Response Plan (ERP) contains procedures and contact information to efficiently respond to water system emergencies such as contamination of water supply, loss of supply, pump failure, and drought management. The ERP was reviewed and updated in 2018, and copies are available on our website, at each RDN office, in each pumphouse, and in each Water Services vehicle. A copy of the ERP is also attached to this report in Appendix C.





11. Cross Connection Control

In 2017, a more robust Cross Connection Control Plan was prepared that fully defines the CCC program, including standard operating procedures, plumbing code references, reporting procedures, survey schedules, backflow prevention standards, detailed installation schematics, blank test forms, testing reminders, and non-compliance letters. A minimum of two RDN Operators are certified in Backflow Assembly Testing at all times. The RDN Manager of Water Services is the designated Cross Connection Control Manager.

In 2019, a stand-alone Cross Connection Control Bylaw will be adopted that contains definitions, authorizations, applications, liability, rules, regulations, testing requirements, and reporting requirements. The bylaw will address retrofits, prohibitions, special circumstances, reclaimed water use, alternate water sources, failure to comply, inspections, testing, offences, penalties and more. A webpage will be established on the Water Services website that will educate RDN customers about cross connections and list the relevant links to current standards and resources.

12. Cyber Security

The RDN uses a multi-level approach to cyber-security. Corporate network security is employed via a universal threat management gateway that implements various methods of data security, which includes daily definition updates to block known cyber threats. In addition, all RDN PC's are protected with anti-virus software. RDN water systems are connected to the corporate network via IP-Sec VPN's for remote management by information technology and equipment operators. Future infrastructure upgrades will see our water systems located on segregated networks to limit the vulnerability from cybersecurity threats.

13. Closing

An annual report for the year 2019 will be prepared and submitted to Island Health in the Spring of 2020. The Rollo McClay Community Park Water System Annual Report is also available on our website at https://www.rdn.bc.ca/rollo-mcclay-community-park.



Park Entrance





APPENDIX A

MAP OF ROLLO McCLAY COMMUNITY PARK WATER SYSTEM





MAP OF ROLLO McCLAY COMMUNITY PARK WATER SYSTEM







APPENDIX B

WATER QUALITY TESTING RESULTS





ROLLO McCLAY COMMUNITY PARK WATER



Facility Location:

1100 McClay Way Gabriola Island

Facility Information:

Facility Type: DWQ

Facility Sampling History:

| <u>Location</u> | <u>Date</u> | Total Coliform | E. Coli |
|---|-------------|----------------|---------|
| Kitchen, Gabriola | 8-Nov-2018 | L1 | L1 |
| Kitchen, Gabriola | 6-Sep-2018 | L1 | L1 |
| Kitchen, Gabriola | 8-Aug-2018 | L1 | L1 |
| Kitchen, Gabriola | 11-Jul-2018 | L1 | L1 |
| Kitchen, Gabriola | 7-Jun-2018 | L1 | L1 |
| Kitchen, Gabriola | 8-May-2018 | L1 | L1 |
| Rollo McClay Community Park Water - AUDIT, 1100 McCLAY WAY | 8-May-2018 | L1 | L1 |
| Kitchen, Gabriola | 11-Apr-2018 | L1 | L1 |
| Rollo McClay Community Park Water - AUDIT, 1100 McCLAY WAY | 11-Apr-2018 | L1 | L1 |
| Rollo McClay Community Park Water - AUDIT, 1100 McCLAY WAY | 7-Mar-2018 | L1 | L1 |
| Kitchen, Gabriola | 7-Feb-2018 | L1 | L1 |

Interpreting Sample Reports

In VIHA, the results of drinking water sampling are reported using the following coding system:

- L1 Less than 1 (no detectable bacteria) Meaning: No bacteria present
- OG Overgrown Meaning: Too many background bacteria to give an accurate count
- **EST Estimated Count**
- A Sample not tested; Too long in transit
- C Sample leaked/broken in transit
- D Sample not tested; No collection date given
- T Sample submitted unsatisfactory. Exceeded 30 hours holding time, please resample.
- NS No sample received with requisition





San Pareil Distribution Water Analysis 793 San Malo Crescent

CDWG=Canadian Drinking Water Guidelines OG= Operational Guidance Value MAC=Maximum Acceptable Concentration AO= Asthetic Objective.



Red font indicates non-compliance with Canadian Drinking Water Guidelines

| | Units | CDWG | | May 13 | May 19 | May 10 | May 10 | May 2 | |
|---|------------------------|----------|------------|--------------------|-------------------|-------------------|-------------------|-------------------|--|
| | Office | OBWO | | 2014 | 2015 | 2016 | 2017 | 2018 | |
| Miscellaneous Inorgani | | | | | | | | | |
| Fluoride | mg/L | 1.5 | MAC | <0.05 | 0.022 | 0.021 | 0.027 | 0.023 | |
| Alkalinity (total as CaCO ₃) | mg/L | | | 24 | 25.1 | 25.7 | 25.3 | 24.7 | |
| Anions | | | | | | | | | |
| Dissolved Sulphate | mg/L | 500 | AO | 1.7 | 1.91 | 1.95 | 1.88 | 2.2 | |
| Dissolved Chloride | mg/L | 250 | AO | 4.7 | 9 | 6 | 4.1 | 5 | |
| Nitrite | mg/L | 1 | MAC | <0.05 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | |
| Miscellaneous | Oaların Heit | | | | _ | _ | 4.0 | _ | |
| Apparent Colour | Colour Unit | | | <5 | <5 | 5 | 10 | 5 | |
| Nutrients | , | | | | | | | | |
| Total Ammonia | mg/L | | | <0.02 | 0.0071 | 0.014 | 0.2 | <0.020 | |
| Physical Properties | | | | | | | | | |
| Conductivity | μS/cm | | | 69 | 82.9 | 72.3 | 66.9 | 64 | |
| pH | pH | 7.0:10.5 | AO | 6.7 | 7.41 | 7.26 | 7.43 | 7.25 | |
| TDS Turbidity | mg/L NTU | 500 | AO | 54 <0.5 | 50 <0.10 | 58 <0.10 | 26 0.14 | 52 <0.10 | |
| Turbidity Microbiological Parama | | | | <0.0 | <0.10 | <0.10 | 0.14 | <0.10 | |
| Microbiological Parame | | -4 | MAG | -1.0 | -1.0 | -1.0 | -1.0 | .4 O | |
| E.coli Total Coliforms | MPN/100mL MPN/100mL | <1 <1 | MAC MAC | <1.0 <1.0 | <1.0 <1.0 | <1.0 <1.0 | <1.0 <1.0 | <1.0 <1.0 | |
| | IVIFIN/ IUUIIIL | < 1 | IVIAC | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| Calculated Parameters Total Hardness (CaCO ₃) | ma/l | | | 22 | 29.7 | 23.6 | 22.6 | 20.6 | |
| Nitrate | mg/L mg/L | 10 | MAC | 0.08 | 0.05 | 0.05 | 0.06 | 0.042 | |
| | mg/L | 10 | IVIAC | 0.00 | 0.03 | 0.05 | 0.00 | 0.042 | |
| Elements Total Mercury | ma/l | 0.001 | MAC | < 0.00001 | <0.00001 | <0.00001 | -0.00001 | 0.0000021 | |
| Total Metals | mg/L | 0.001 | MAC | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0000021 | |
| Total Metals Total Aluminum | ma/l | 0.1 | OG | < 0.025 | 0.008 | 0.0104 | 0.0138 | 0.0152 | |
| Total Antimony | mg/L mg/L | 0.006 | MAC | <0.005 | <0.005 | < 0.0005 | <0.0005 | <0.0005 | |
| Total Arsenic | mg/L | 0.000 | MAC | <0.0005 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | |
| Total Barium | mg/L | 1 | MAC | 0.00293 | 0.0035 | 0.0031 | 0.0034 | 0.0027 | |
| Total Beryllium | mg/L | | 1717 (0 | <0.0025 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | |
| Total Bismuth | mg/L | | | <0.0005 | <0.001 | <0.001 | <0.001 | <0.001 | |
| Total Boron | mg/L | 5 | MAC | 0.011 | <0.05 | <0.05 | <0.050 | < 0.050 | |
| Total Cadmium | mg/L | 0.005 | MAC | <0.00005 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | |
| Total Chromium | mg/L | 0.05 | MAC | <0.0025 | <0.001 | <0.001 | <0.001 | <0.001 | |
| Total Cobalt | mg/L | | | <0.0005 | <0.0005 | <0.0005 | <0.0002 | <0.0002 | |
| Total Copper | mg/L | 1 | AO | 0.0073 | 0.0026 | 0.00332 | 0.00428 | 0.00516 | |
| Total Iron | mg/L | 0.3 | AO | 0.021 | 0.016 | 0.0147 | 0.0185 | 0.0147 | |
| Total Lead | mg/L | 0.01 | MAC | 0.0007 | 0.00183 | 0.00053 | 0.0006 | 0.00089 | |
| Total Manganese | mg/L | 0.05 | AO | <0.0050 | 0.0052 | 0.0034 | 0.0016 | <0.001 | |
| Total Molybdenum | mg/L | | | <0.00025 | <0.001 | <0.001 | <0.001 | <0.001 | |
| Total Nickel Total Selenium | mg/L | 0.05 | MAC | <0.0010 <0.0005 | <0.001 <0.0001 | <0.001 <0.0001 | <0.001 <0.0001 | <0.001 <0.0001 | |
| Total Selenium Total Silicon | mg/L mg/L | 0.05 | IVIAC | 3.21 | 3.7 | 3.46 | 3.56 | 3.07 | |
| Total Silver | mg/L | | | <0.00025 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | |
| Total Strontium | mg/L | | | 0.0292 | 0.0372 | 0.032 | 0.0304 | 0.0273 | |
| Total Thallium | mg/L | | | <0.00005 | <0.00005 | <0.0005 | <0.00001 | <0.00001 | |
| Total Tin | mg/L | | | <0.0005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | |
| Total Titanium | mg/L | | | <0.0025 | <0.005 | <0.005 | <0.005 | <0.005 | |
| Total Uranium | mg/L | 0.02 | MAC | <0.00005 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | |
| Total Vanadium | mg/L | | | <0.0005 | <0.005 | <0.005 | <0.005 | <0.005 | |
| Total Zinc | mg/L | 5 | AO | 0.0161 | <0.005 | <0.005 | <0.005 | <0.005 | |
| Total Zirconium | mg/L | | | | <0.0005 | <0.0005 | <0.0001 | <0.0001 | |
| Total Calcium | mg/L | | | 7.19 | 9.87 | 7.6 | 7.38 | 6.55 | |
| Total Magnesium | mg/L | | | 0.93 | 1.23 | 1.13 | 1.03 | 1.04 | |
| Total Potassium | mg/L | | | <0.5 | 0.212 | 0.197 | 0.194 | 0.189 | |
| Total Sodium | mg/L | 200 | AO | 4.3 | 4.52 | 4.4 | 4.15 | 4.34 | |
| Total Sulphur | mg/L | | | | <3.0 | <3.0 | <3.0 | <3.0 | |



Ministry of Environment ☐ Well Construction Report☐ Well Closure Report☐ Well Alteration Report

Stamp company name/address/ phone/fax/email here, if desired. Ministry Well ID Plate Number:

Ministry Well Tag Number: 13 5 6 5

Confirmation/alternative specs. attached
Original well construction report attached

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