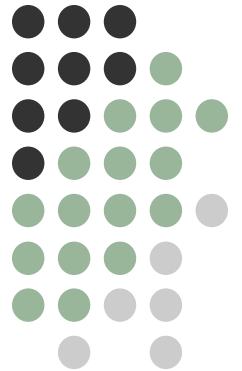


District of Port Hardy Annual Report 2018



**Live
the
Adventure**



Table of Contents

• • • • • • • • • •

| | |
|---|-------|
| Message from Mayor and Council..... | 3 |
| Mayor & Council..... | 4-6 |
| Message from the Chief Administrative Officer..... | 7 |
| The Leadership Team..... | 8 |
| Community Engagement..... | 9 |
| Strategic Focus..... | 10 |
| Community Services..... | 11 |
| Corporate Services..... | 12-16 |
| Operational Services..... | 17-23 |
| Parks, Recreation, Arts and Culture..... | 24-28 |
| Fire Department..... | 29-32 |
| Harbour..... | 33-38 |
| Twinning..... | 39-41 |
| Finance..... | 42-46 |
| Appendix I - Water Treatment Plant & Distribution System..... | 47 |
| Appendix II - Wastewater Treatment Plants & Collection Systems..... | 48 |
| Appendix III - Audited Financial Statements..... | 49 |

Mayor Dennis Dugas



Message from Mayor & Council



Mayor and Council are pleased to present the 2018 District of Port Hardy Annual Report. This Annual Report will give you an accurate picture of our accomplishments over the past year.

We are pleased to report that the District of Port Hardy continues to have increased population growth, investments in property purchases and property development.

The completion of the Telus Pure Fibre Network in the Spring of this year was exciting for the last 300 homes that were waiting patiently for high speed internet. Also, it has added to our goal for attraction and retention for our business community, home base businesses and younger residents who enjoy the high speed for education and recreation opportunities.

A major accomplishment was the completion of the new Storey's Beach Water Main and Reservoir project which also included a new Reservoir at the water treatment plant site. The Federal / Provincial Grants contributed to 83% of a 5-million-dollar project. Because we were shelf ready for the grant, it was a win-win for the District of Port Hardy.

Unfortunately, we had some bad news on our tender results for the Multiplex project just before the end of the year. The tender price came in 43% over budget, so we had to apply for new grant opportunities and we will have to wait until the Fall of 2019 for the results.

Also, on the tourism side the new BC Ferries ship the Northern Sea Wolf which would have reinstated the run to Bella Coola did not arrive, which was a disappointment to both Port Hardy and the Bella Coola region. BC Ferries is positive that the Northern Sea Wolf will be ready for the 2019 season.

In October there was a Municipal Election and there were a few changes, I, Dennis Dugas became Mayor with new councillors Janet Dorward and Treena Smith added to the team, with the returning councillors Pat Corbett-Labatt, Fred Robertson, John Tidbury and Leighton Wishart. We would like to thank Hank Bood and Rick Marcotte for all their hard work and dedication to the District over their four-year term. We wish them all the best in their future endeavours and enjoying life to the fullest.

Our Municipal Office, Public Works, Recreation, Water / Wastewater staff and employees continue to provide Port Hardy with excellent service and we thank them for the excellent job that they do.

Mayor and Council look forward to 2019 and we thank you for your continued support as we endeavour to represent the desires and needs of our community. We are here to Listen to you, Learn from you and Lead for you.

Thank you on behalf of the District of Port Hardy Council,
Dennis Dugas, Mayor

Appointments



Executive Committee, Finance Committee, Regional District of Mt. Waddington Board, Regional Hospital Board, Island Coastal Economic Trust, Municipal Insurance Association.

ddugas@porthardy.ca

Mayor & Council



Left to right: Councillor Fred Robertson, Councillor Janet Dorward, Councillor Pat Corbett-Labatt, Mayor Dennis Dugas, Councillor John Tidbury, Councillor Treena Smith, Councillor Leighton Wishart.

The Mayor and Council for the District of Port Hardy were elected for a four-year term in October of 2018. Each member of Council represents the District at large and is appointed to both Port Hardy and Regional committees. Council is committed to ensuring that policies and decisions implemented are in the best interests of Port Hardy citizens.



Council



Councillor Pat Corbett-Labatt

Appointments



Executive Committee, Finance Committee, First Nations Relations Committee, Parks, Recreation, Arts & Culture Committee, Regional District Mt. Waddington Board (alternate), Regional Hospital Board (alternate), Mt. Waddington Table of Partners (Health), Mount Waddington Wellness First, Hardy Bay Senior Citizens Society, Port Hardy Twinning Society.

pcorbett-labatt@porthardy.ca



Councillor Janet Dorward

Appointments

Executive Committee, Finance Committee, Operational Services Committee, Parks, Recreation, Arts & Culture Committee, Tourism Advisory Committee, Regional District Mt. Waddington Board, Regional Hospital Board, Job Fair Committee, Municipal Insurance Association (alternate).

jdorward@porthardy.ca



Councillor Fred Robertson

Appointments

Executive Committee, Finance Committee, First Nations Relations Committee, Parks, Recreation, Arts & Culture Committee, Vancouver Island Regional Library Board of Trustees, Marine Plan Partnership (alternate), Mt. Waddington Table of Partners (Health), Mt. Waddington Wellness First, BC Ferries Northern Advisory Committee.

frobertson@porthardy.ca

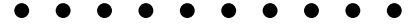


Council



Councillor Treena Smith

Appointments



Executive Committee, Finance Committee, Community Consultative Committee, Tourism Advisory Committee, Bear Smart Port Hardy Committee, Chamber of Commerce, Port Hardy Heritage Society (Museum), Vancouver Island North Tourism (VINTAC).

tsmith@porthardy.ca



Councillor John Tidbury

Appointments

Executive Committee, Finance Committee, Operational Services Committee, Emergency Planning Committee, Regional District Mt. Waddington Board (alternate), Regional Hospital Board (alternate), Mt. Waddington Regional Transportation Committee, North Island Regional Emergency Planning Committee, Vancouver Island North Woodlands Advisory Group (VINWAG).

jtidbury@porthardy.ca



Councillor Leighton Wishart

Appointments

Executive Committee, Finance Committee, Operational Services Committee, Emergency Planning Committee, Vancouver Island Regional Library Board of Trustees (alternate), Marine Plan Partnership, Municipal Insurance Association (alternate), Port Hardy Fire Rescue, Poverty Pilot Program, Scott Islands Advisory.

lwishart@porthardy.ca



Message from the Chief Administrative Officer



Welcome and thank you for your interest in the District of Port Hardy 2018 Annual Report. Throughout this report we try to inform the public about District services and projects occurring in 2018. The District recognizes these services are provided on the Traditional Territory of the Kwakiutl First Nation.

The District said “Happy Retirement” to two employees in 2018; Leslie Driemel our Confidential Secretary with 25 years of dedicated service and Adrian Maas our Director of Financial Services for the past two years.

In 2018 we welcomed Lynda Sowerby, who undertook the Director of Financial Services position. There were a few more departures and arrivals of employees within our service departments and we wish those who moved on much success in their futures and to all our new employees a sincere welcome.

Filomi Days 2018 was a huge success and is always a community & visitor favourite! We thank the Filomi Days volunteers who put in tireless hours in making this event a stand out celebration year after year!!

A surprise donation of a Cape Scott Windmill blade was made possible by the Port Hardy Rotary Club who worked with the District to find it a home and make it a landmark at Highway 19 and the Bear Cove Highway. Thank you Rotarians!

Port Hardy Lions Club members continue to work quietly behind the scenes keeping our Civic Centre full of nightly and weekend activities. The District thanks them for providing this service to the District!

We thank all of our many volunteer groups, our ever growing seniors society and community members who make Port Hardy a wonderful place to live and work. Thank you. 😊

Some of the Capital projects completed or in progress in 2018:

- ◆ Fort Rupert Reservoir.
- ◆ SwapLoader vehicle.
- ◆ Seagate Wharf structural improvements.
- ◆ Lost at Sea Monument completion.
- ◆ Arena safety improvements.
- ◆ Pool mechanical improvements.
- ◆ Fire Hall 1 lighting improvements.
- ◆ Bear Cove Recreational Site electrical improvements.



Image i-28374 courtesy of the Royal BC Museum and Archives



The Leadership Team

Allison McCarrick
Chief Administrative Officer

Heather Nelson-Smith
Director of Corporate Services

Lynda Sowerby
Director of Finance

Abbas Farahbakhsh
Director of Operations

Bob Schantz
Municipal Inspector

Melinda Dennison
Aquatic Coordinator

Vern Braun
Recreation Facility Foreman

Anika Kelly - Aries Security
Harbour Managers

Brent Borg
Fire Chief

Gavin Texmo
Deputy Fire Chief

Wes Olsen
RCMP Staff Sergeant



Community Partners

The District of Port Hardy recognizes and values its community partners.

The District relies on its community partners for the important day-to-day tasks involved in keeping the community safe and vibrant.

These partners include: Port Hardy Fire Rescue, Royal Canadian Mounted Police, BC Ambulance Service, Local Service Agencies, Vancouver Island Regional Library, Port Hardy & District Chamber of Commerce, and Port Hardy Museum.

Volunteers and Community groups are all valued as an important part of making our community a welcoming place to live.



Community Engagement



FOLLOW US

District Website: www.porthardy.ca

- Facebook pages: District of Port Hardy.
- Port Hardy Emergency.
- Port Hardy Recreation.
- Port-Hardy Animal Shelter.
- Port Hardy Fire Rescue.
- Twitter: @DPortHardy.
- Instagram @DPortHardy.
- Quarterly Newsletter: distributed with utility bills.
- Regular Council Meetings.
- Open Houses.
- Local Media: The District regularly advertises items of interest to the general public through the North Island Gazette, North Island Eagle (local print media), and CFNI-Coast AM 1240 radio.
- Community Events: The District supports several key community events, including Canada Day, FILOMI Days, Ocean's Day, and many other community led events.
- Partnerships: The District co-produces materials with a variety of community partners, including Tourism Port Hardy, The Port Hardy & District Chamber of Commerce (Visitor's Centre), Vancouver Island North Tourism Association and Emergency Preparedness .
- Email and Phone: General inquiries: email - general@porthardy.ca phone 250-949-6665, Monday through Friday, 8:30 a.m.- 4:30 p.m.



2018 Strategic Focus

Mayor and Council represent the people of Port Hardy by reviewing and assessing community needs each year. Council goes through a strategic planning process to implement a strategy of how to achieve goals that support retention and growth of our community and the North Island. This process identifies measurable goals to be achieved over the next 12 months and sometimes longer.

2018 goals included:

Recreation

Action: Multiplex initiative ~ primarily new pool complex ~ Ball Fields.

Beautification

Action: Gardens ~ Parks ~ Buildings ~ Trails.

Seniors

Action: Involvement ~ Listening ~ Caring.

Green Energy

Action: Recycle ~ Reduce emissions ~ Investigate energy efficient options on projects.

Empty Buildings

Action: Stronger bylaws ~ Act on bylaws ~ Engage with property owners.

Health and Care Services

Action: Serve on Health Committees ~ Lobby for improvement and growth of North Island health services.

Economic Development

Action: Promote Port Hardy ~ Engage with business owners ~ Develop retention strategies.



Port Hardy Council with Minister Robinson UBCM 2018

Community Services

Corporate Services

Operational Services

Recreation Services

Protective Services

Harbour Management

Twinning

Financial Services

celebrating FILOMI DAYS -2018- JULY 20-21-22



| FRIDAY JULY 20 Park Hours- 5PM-10PM LION'S CLUB Beer Gardens 7PM-9PM | Saturday JULY 21 Park Hours- 10am-10PM LION'S CLUB Beer Gardens 1PM-9PM | Sunday JULY 22 Park Hours 10am-11PM LION'S CLUB Beer Gardens 1PM-8PM |
|--|---|---|
| <ul style="list-style-type: none"> • Dawn-5PM - FISHING DERBY • 6PM - KIDS events • 7PM - PURPLE PIRATE - PROVIDENCE PLACE • 7-10PM - MUSIC IN THE PARK • 8:30PM-12AM - DEADLIEST CATCH TEEN DANCE • 10PM - MOVIE IN THE PARK -free admission- <p>-KIDS events-</p> <ul style="list-style-type: none"> • MAGICAL FACE PAINTING Lady • FUN TIME INFLATABLES • TRIPOD SPEEDWAY SOAPBOX DERBY • MASON'S KIDS FISHING • PURPLE PIRATE • LITERARY BUS WITH MOTHER GOOSE • SCRUFFLES THE CLOWN <p>SO MUCH FUN</p> | <ul style="list-style-type: none"> • Dawn-5PM - FISHING DERBY • 8-10am - Pancake Breakfast • 11am - Parade Marshall @ THUNDERBIRD MALL • 12PM - Parade to Carrot Park • 1-2PM - Opening ceremony • 2-10PM - Live music in the Park • 1-3PM - TRIPOD SPEEDWAY SOAPBOX DERBY • 1-7PM - KIDS events • 1-10PM - Park Festivities • 3:15PM - PURPLE PIRATE in Park • 8:30PM-1:30am - DEADLIEST CATCH ADULT DANCE | <ul style="list-style-type: none"> • Dawn-2PM - FISHING DERBY • 8am-noon - Masons KIDS FISHING • 10am-noon - Inter-Church Service • 11am - Rotary Duck Race TSULQUATE RIVER • 11:30am DUNLOP'S BOAT BUILDING CONTEST • 10am-11PM - Park Festivities • 10am-4PM - KIDS events • 1PM - PURPLE PIRATE in Park • 1-11PM Live music in the Park • 4PM - FISHING DERBY/DUCK RACE awards ceremony • 10:30PM - FIREWORKS! |
| <p>music in the park</p> <ul style="list-style-type: none"> • 7-10PM - centerpiece • DJ Jamie Keamo | <p>music in the park</p> <ul style="list-style-type: none"> • 2-4PM - Sugar Maples • 4-6 - LARRY HO SHOW • 6-8PM - Ray Bennett Blues Band • 8-10PM - SHOTGUN KELLY | <p>music in the park</p> <ul style="list-style-type: none"> • 1-3PM - Charity & The Foundations • 3-5PM - Dave & Annie • 5-7PM - Mulligans • 7-9PM - The Impalas • DJ Jamie Keamo |



Corporate Services

Voter Turnout

BC 36%

Port Hardy 37.2%

Election 2018

Upon close of the nomination period on September 14, 2018, nominations for two candidates for the office of Mayor and eight nominations for the office of Councillor had been received by the Chief Election Officer. In addition, three nominations were received for the three positions of School Trustee for Electoral Area 1 with the Board of Education of School District No. 85. As a result, on Monday, September 24, 2018, a declaration of election by voting was made with respect to the offices of Mayor and Councillor with District of Port Hardy Council, and declaration of acclamation was made with respect to the three positions for office of School Trustee.

Three advanced voting opportunities were undertaken on October 10th, 18th and 19th at the Municipal Hall, a special voting opportunity was conducted at the Port Hardy Hospital / Eagle Ridge Manor on October 17th and mail ballots were accepted during the period of October 1st to general voting day. A total of 480 electors voted during these four opportunities. With respect to general voting day on October 20th a total of 667 electors voted bringing the grand total to 1147 which is 37.2% of an estimated 3,083 eligible voters.



DISTRICT OF PORT HARDY

DETERMINATION OF OFFICIAL ELECTION RESULTS GENERAL LOCAL ELECTION – 2018

| | BOOD | DUGAS | KATTLER | DORWARD | WISHART | SMITH | CORBETT-LABATT | TIDBURY | MARCOTTE | ROBERTSON |
|--|------------|------------|------------|------------|------------|------------|----------------|------------|------------|------------|
| Advance Voting Opportunity: October 10, 2018 Municipal Hall | 34 | 119 | 62 | 100 | 94 | 78 | 120 | 94 | 74 | 92 |
| Advance Voting Opportunity: October 18, 2018 Municipal Hall | 35 | 97 | 50 | 95 | 70 | 74 | 103 | 86 | 71 | 80 |
| Advance Voting Opportunity: October 19, 2018 Municipal Hall | 47 | 102 | 66 | 93 | 79 | 85 | 118 | 98 | 74 | 99 |
| Special Voting Opportunity: Port Hardy Hospital/Eagle Ridge Manor October 17, 2018 | 0 | 5 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 |
| Special Voting Opportunity: Mail Ballots | 13 | 13 | 16 | 15 | 15 | 22 | 27 | 16 | 15 | 19 |
| General Voting: October 20, 2018 Municipal Hall | 191 | 470 | 281 | 440 | 360 | 394 | 507 | 406 | 358 | 413 |
| TOTAL NUMBER OF VOTES | 320 | 806 | 475 | 743 | 620 | 653 | 875 | 700 | 593 | 703 |



Mayor Elect



Councillor Elect



Corporate Services

Social Media



244 followers



742 followers



165 followers

Telmatik Emergency Notification System

In 2018 we launched the Telmatik Emergency Notification System. This is an alerting system that allows the District to notify residents via cell phone SMS text message or voice, land line and email of emergencies affecting the District.



Bylaws

The following bylaws were amended in 2018:

- User Rates and Fees Bylaw.
- Zoning.
- Official Community Plan.
- Garbage and Recycling.
- Council Remuneration.

Bylaws are available online at www.porthardy.ca

Administration

Managed and administered matters associated with contracts (including agreements and leases) between the District and other parties for a variety of purposes including such things as the lease of equipment, the provision of services by the District to others, services provided by others to the District, the lease of District land and buildings to others, the lease of Crown lands to accommodate the District's infrastructure, etc.

Carried out administration associated with business licensing, dog licensing, open burning permitting, sign permitting and special occasion liquor licensing programs.



Corporate Services



Building Inspection, Fire Inspection and Bylaw Enforcement Services

With the assistance of OPTA, a software information intelligence program, the District completed 65 fire inspections on public buildings in Port Hardy.

The District opened 83 bylaw enforcement files issued by complaint. They breakdown as follows:

| | | |
|--------------------|--------------------------|-------------------------|
| 17 Animal control. | 4 Boulevard maintenance. | 6 Building enforcement. |
| 2 False alarms. | 5 Garbage. | 3 Noise. |
| 16 Traffic. | 2 Tree. | 16 Unsightly property. |
| 3 Vacant property. | 1 Water regulation. | 8 Zoning/Land. |

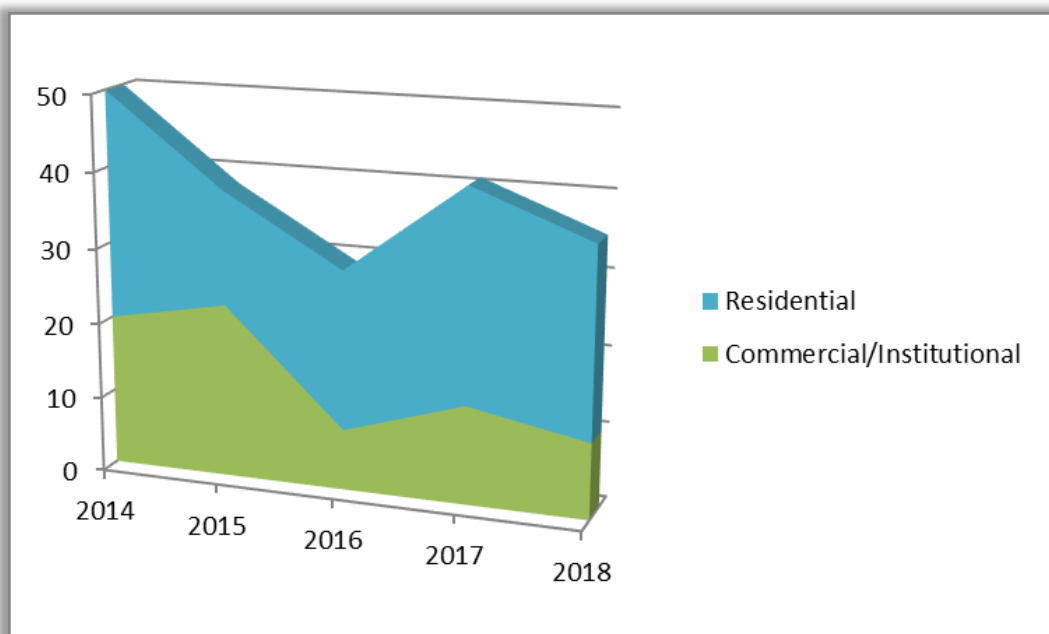
| 2018 BUILDING AND DEMOLITION PERMITS | | |
|--------------------------------------|-------------------|--------------------|
| Nature of Permit | Number of Permits | Construction Value |
| Residential | | |
| New dwelling units | 1 | 153,600 |
| Mobile home installations | 3 | 6,000 |
| Additions / renovations | 12 | 228,500 |
| New Accessory | 7 | 247,800 |
| Relocates | 1 | 8700 |
| Commercial / Industrial | | |
| New buildings | 2 | 7,077,000 |
| Additions / renovations | 8 | 413,973 |
| Demolitions | | |
| All types | 1 | |
| TOTAL | 35 | \$8,135,573 |



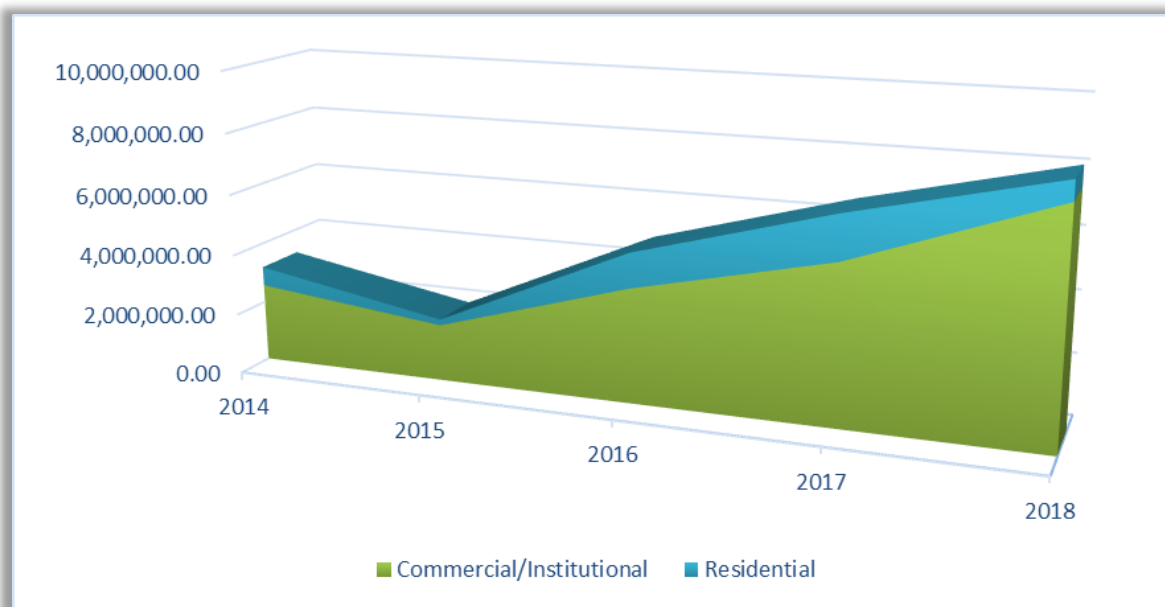
Corporate Services

Comparison of building permits year to year.

Number of Permits



Cost of Permits

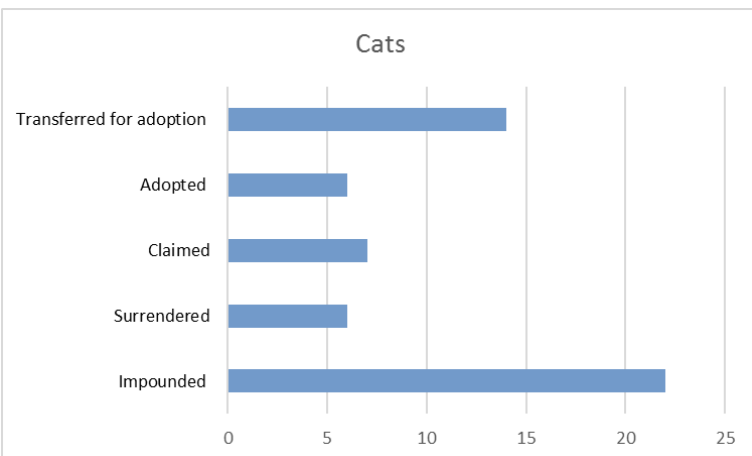


Corporate Services



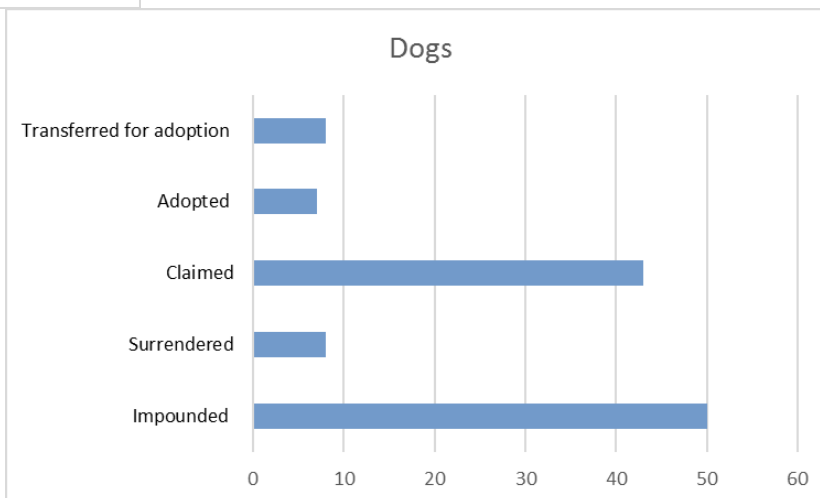
Bear Smart

Every year hundreds, and in some years over a thousand bears are destroyed as a result of conflicts between people and bears. In rare instances, people are also injured or even killed as a result of these conflicts. Most of these problems begin when people allow bears to access non-natural food sources such as garbage. The Bear Smart Community program has been designed by the Ministry of Environment in partnership with the British Columbia Conservation Foundation and the Union of British Columbia Municipalities. It is a voluntary, preventative conservation measure that encourages communities, businesses and individuals to work together. The goal is to address the root causes of human-bear conflicts, thereby reducing the risks to human safety and private property, as well as the number of bears that have to be destroyed each year. The District has made becoming a Bear Smart Community a priority. In 2018 we launched our Bear Smart Committee with the help of Sarah Salter, Bonnie Bergeron, Patrick Lemieux, Candy Nomeland and staff we participated in outreach at FILOMI Days and won first prize at the Fall fair for our booth. We will continue to outreach in 2019 with our application for official Bear Smart status being submitted in early 2019.



Animal care and control

Aries Security Ltd. is the contracted animal control officer for the District. Aries operates the District's animal shelter located at 5060 Pioneer Way and undertakes enforcement activities governed by the District's Animal Care and Control Bylaw No.11-2012. Aries staff the animal shelter Monday to Friday 8:00am-8:30am and 3:30pm-4:00pm; Saturday and Sunday 8:30am-9:30am. Please check the District website for current hours in case of change. Animal control response service is available seven days a week, twenty-four hours a day.



Operational Services

Water Treatment Plant

Throughout 2018, there were times where due to heavy rains and high river colour events, that the water treatment process was upset. In these events, the plant is taken offline and no water is pumped to the reservoir. Water is only pumped to the reservoir once the treatment plant's process quality is restored. This will result in lower than desired reservoir levels but quality will not be compromised.

Many capital projects were undertaken in 2018. The backup raw water pump was sent out for a rebuild this year. Upon its return, it was put online and the main pump sent out for its rebuild. The main pump had been in service over 10 years.

New online turbidimeters were purchased to monitor raw and treated water quality. The existing turbidimeters are now obsolete and parts are becoming more difficult to find.

Spare components for the water plant's multiple Programmable Logic Controllers (PLCs) were purchased this year. The water plant incorporates 5 PLCs that monitor several hundred inputs in the process. If any portion of the PLC was to fail, the water plant process would stop, ceasing production of potable water. The original PLCs were installed in 2000 with one being replaced in 2016.

Highlights:

- No violations to permit in 2018.
- Quarterly samples for Trihalomethanes and Haloacetic acids all returned within acceptable limits.
- All bacteriological testing came back within expected parameters.
- Seasonal low river levels due to dry weather triggered a Stage 2 water use restriction as per Port Hardy Water Conservation Bylaw No. 06-2005.
- A Stage 3 water use restriction was triggered when the water reservoir #1 was removed and while a replacement was being constructed.
- 130 ML less water was treated in 2018 compared to 2017; this is the lowest production since the water treatment plant was commissioned in 2000. This is due to the utilities crew continuing to make needed repairs and the implementation of the water conservation bylaw.



The "Water Treatment Plant and Distribution System 2018 Annual Performance Report for Facility Numbers 529 & 155" is located as Appendix I, starting on page 47 of this document. The "Wastewater Treatment Plants & Collection System Annual Report 2018, MOE Certification ME-00385 & PE-04168" can be found in Appendix II, starting on page 48 of this document.



Operational Services

Water Distribution System

In 2018, the District of Port Hardy commenced on a major upgrade to the water distribution system in the Storey's Beach area. A new 2,000 cubic meter (m³) reservoir was constructed on Fort Rupert Road and 3,000 meters of distribution pipe was replaced. The replacement distribution pipe was also increased in size from 150mm and 250mm to 300mm and 350mm. Additional hydrants were installed insuring a fire flow of 150 litres/second where required. The Fort Rupert Reservoir site is equipped with backup power generation and chlorine disinfection booster pumps. The reservoir level is controlled by an altitude control valve which keeps the tank at a predetermined level within 1.5 meters. A rolling diaphragm pressure reducing valve is installed on site to regulate the pressure in the event the reservoir is offline. The entire site can be monitored remotely from the water treatment plant.

A new pressure reducing station (PRV) was installed at the corner of Beaver Harbour Road and Storey's Beach Road. This station reduces the mainline pressure from Storey's Beach Road to Chatham Avenue. Reservoir #1 at the water treatment plant was replaced in March and the existing reservoir was taken offline. A new concrete base was poured, and new inlet and outlet valves installed. The new tank, is a 2,700 cubic meter (m³) glass fused to steel (GFS) construction which has much lower maintenance requirements and a larger capacity. A new check valve system in the tank ensures better mixing of the water. The new tank was brought online in June.

The Holmgren Flats PRV station was rebuilt this summer. The original installation was in 1990 and was beginning to have some operational issues. Both valves, the pressure relief system and the electrical components were all rebuilt by the Utilities staff. Tree and brush removal along the water mains was a capital project this year. Keeping the water-mains clear of large vegetation makes identifying and repairing leaks much easier reducing time that the community is without water. Local contractors completed this work, which involved removing trees under the power line to the water treatment plant. This clearing has resulted in less power bumps at the water plant and less operator call outs.

Staff have been working on the water distribution line mapping project. Utilities staff have been verifying the details of maps and noting changes that are needed. The maps will then be returned, and adjustments made.



Operational Services

Water Distribution System

Fort Rupert Reservoir– Built thanks to financial contributions from Canada, British Columbia and the District of Port Hardy.



Highlights:

- Water meters were installed in more commercial properties in 2018.
- In January, the Port McNeill PRV station was repaired.
- The 2" water meter serving the Gwa'Sala-Nakwaxda'xw First Nation was replaced.
- A new water service was installed to Fire Hall #2 at Storey's Beach in March.
- All hydrants were serviced in 2018.
- All Utilities operators received training on the Hydro excavation truck this year and received the required Continuing Education Unit (CEU) credits for the course.



Operational Services



Tsulquate Wastewater Plant and Collection

Highlights:

- The Tsulquate wastewater plant continued to produce effluent within the parameters of the permit.
- The annual average daily flow was 2,119 m³/day.
- UV disinfection bulbs were replaced this year as part of scheduled operations & maintenance.
- Exterior building electrical plugs were replaced at the Tsulquate Plant.
- The annual receiving water monitor testing was performed. Effluent quality was within normal parameters.
- An LC50 test was also performed on the effluent with a 100% survival rate.
- A Sewer Manhole Survey was conducted by our Utilities group to determine the condition of each manhole and to prioritize where structural maintenance and flushing is needed. In all, over 200 manhole inspections were completed.
- Three of the sewage liftstations are scheduled to receive permanent standby emergency power generators. Control kiosks that encompass the new transfer switch gear will also be installed. Completion of the project will be early 2019.
- Sewer flusher truck training was provided for all operators in November. Operators were able to receive Continuing Education Units for this training.
- A sewer flushing program is ongoing with focus on areas with high grease deposits as identified by our Sewer Manhole Survey.
- An electrical engineer was contracted to troubleshoot and prepare a plan to replace some failing electrical equipment at the wastewater treatment plant. This work is scheduled for 2019.
- The Tsulquate wastewater treatment plant has an emergency generator capable of running the entire system, to ensure quality of the effluent is not compromised by power outages.



Operational Services



Airport Wastewater Plant and Collection

Highlights:

- The Airport wastewater plant continued to produce effluent within the parameters of the permit.
- The annual average flow was 552 m³/day with a maximum flow of 960 m³ recorded in January during a storm event.
- The headworks screening unit required a complete teardown and repair due to rocks entering the sanitary system. The screen has been functioning well after the repair.
- The air header was repaired this year.
- A new emergency generator transfer switch has been installed as part of the 2018 capital project program. The commissioning is now complete.
- Receiving water monitoring and dive of the outfall pipe were conducted as per the requirements of the Operating Certificate. The receiving water testing results were found to be within expected parameters.
- An LC50 test was performed in August on the effluent with a 100% survival rate.



Operational Services

• • • • • • • • • •

Highlights:

Capacity Building:

The Operations Department welcomed new crew member, Chad Moore-Labatt.

Energy Smart Initiatives:

All new downtown decorative lights were converted to LED lighting.

Pedestrian Safety:

A new sidewalk was constructed along Central Street.

The seawall lights were completed.

Vibrant Community:

The Beautiful Lost at Sea monument was completed with a dedication to occur in 2019.

New and improved Christmas lighting brought a cheerful and joyous atmosphere to Market Street.

The well kept flower gardens and parks continue to contribute to a vibrant and beautiful community.



Operational Services



Parks, Recreation, Arts and Culture

Parks, Recreation, Arts and Culture Committee



Welcome to the world of Parks, Recreation Arts and Culture.

As the name suggests the Committee has a very wide mandate. For the last while one of the focuses of the PRAC Committee has been to maintain existing recreation facilities and bring new activities to the community. Of course, the biggest example of this is Council's work toward replacing our pool. The skyrocketing costs of construction on Vancouver Island have made this a bit more of a challenge than we had hoped; however, we continue to work toward a successful project. As always, we will continue to update the community, as information is available.

One of our guiding principles is that if we do not adequately maintain existing facilities then we will lose facilities we cannot afford to replace. To that end, we have committed funds toward the replacement of the roof of the curling rink, repair and maintenance of the ball fields, repair and maintenance of the skateboard park, and we have been trying to work with PH Youth Soccer and SD 85 to maintain the PHSS soccer pitch.

We have recently facilitated the space and purchased the equipment for Pickle Ball, and after a presentation from a senior's group we are in the process of facilitating the opportunity for shuffleboard. These are just a few of the initiatives undertaken by the PRAC.

We are always open to new ideas. We encourage any person or group to come to a PRAC Committee and present any of your ideas for Parks, Recreation, Arts and Culture in our Community.

Fred

Fred Robertson, Councillor

Chair of the Parks, Recreation, Arts and Culture Committee



The purpose and mandate of the Parks, Recreation, Arts and Culture Committee is to:

- Advise in the operation, maintenance and improvement of District recreational facilities.
- Maintain and strengthen relationships with local recreational and arts and culture organizations.
- Work with local recreational organizations and users to plan and improve recreational activities and facilities within the District of Port Hardy.
- Research matters that are referred to the Committee by Council and provide recommendations to Council on such matters.
- Consult, on a regular basis, the recreational and arts and cultural priorities of individuals, groups, agencies and organizations.



Parks, Recreation, Arts and Culture

Don Cruickshank Memorial Arena



During 2018 the Don Cruickshank Memorial Arena hosted a variety of Hockey Tournaments. Ice use by private rentals and user groups totaled 956.75 hours. Public/Family Skates, Stick Times and special events hosted by the Recreation Department attracted 1,714 skaters, with approximately 335 attending the holiday skates and stick times.

There was an approximate additional 60 hours of dry floor rentals in the off season. We were excited to host the Harvey Walkus Memorial Floor Hockey Tournament again. This is an annual event that is growing each year and brings many visitors to the community. This event had great community involvement and was an enjoyable time for all participants and attendants.

In 2018 there were some safety upgrades done to the ammonia plant of the arena. The most significant of these is the new vent stack on the outside of the building. This was done to comply with the safety standards set forth by Technical Safety BC (TSBC).



Parks, Recreation, Arts and Culture

Don Cruickshank Memorial Arena



2018 Events

January 2-5

January 19-21

January 26-28

February 10

March 16-18

March 19

April 20-22

September 7-9

September 23

November 8-11

November 16-18

November 23-25

December 15

December 27

Port Hardy Holiday skate schedule

Port Hardy Minor Hockey Novice Tournament

Port Hardy Minor Hockey Midget Tournament

Port Hardy Minor Hockey Initiation Jamboree

North Island Eagles Atom Development Tournament

Ice out

Harvey Walkus Memorial Floor Hockey Tournament

Mount Waddington Fall Fair

Ice in for First Skate

Port Hardy Wild Women's Tournament

Port Hardy Minor Hockey Atom Tournament

Port Hardy Minor Hockey Pee wee Tournament

Triport Wild Female Jamboree

Christmas schedule

Maintenance

Arena

- Compressor #1 rebuild.
- Compressor #2 oil change.
- Compressor room upgrades.
- Painted dressing rooms.
- Completed general plumbing, and facility repair and maintenance.
- Safety upgrades as required by Technical Safety BC and WorkSafe BC.

Pool

- Performed general plumbing and facility repair and maintenance.
- Installed ammonia leak warning system on pool deck.



Parks, Recreation, Arts and Culture

Aquatic Centre



The Port Hardy Pool and Recreation Center hosted special event swims in 2018, including a Family Day swim and many Hot Dog Pro-D day swims. Over the summer we hosted UBC's Gearing Up Science Camp where students learned about science through experiments. Our ever-popular Summer Fun Swim day camps were offered in August along with a lifesaving camp.

Pool maintenance included painting the front building railings, repairing sauna boards and power washing the front of the building. There were 15 certified lifeguard/instructors and 4 cashiers employed by the District in 2018.

Port Hardy Recreation is still in high demand throughout our community and surrounding communities. The total pool attendance for 2018 was 16,275.



| 2018 Pool Attendance Totals | |
|-----------------------------|-------------------|
| Program | # of participants |
| Noon lengths | 2,529 |
| Evening lengths | 548 |
| Family/Senior swim daytime | 647 |
| Family swim evening | 3,448 |
| Public swim daytime | 2,730 |
| Public swim evening | 3,402 |
| Aqua fit day/evening | 2,971 |
| Total | 16,275 |



Parks, Recreation, Arts and Culture



First Nations Relations Committee

Since the November election, the First Nations Relations Committee has been meeting regularly. Thank-you to all who have been attending the meetings, and we are looking forward to increased participation and joint projects.

Increased friendship and trust between the councils is one of the goals and subsequent outcomes that are occurring.

In showing respect and friendship, the District of Port Hardy Council officially acknowledges the Kwakiutl traditional territory in all the meetings.

Gilakas'la,

Pat

Pat Corbett-Labatt, Councillor

Chair of the First Nations Relations Committee



The purpose and mandate of the First Nations Relations Committee is to:

- a) Assist Council in becoming more knowledgeable about local First Nations culture.
- b) Seek means to improve communications and foster, maintain and strengthen relationships with local First Nations.
- c) Work with local First Nations to implement the North Island Regional Protocol Agreement (March 17, 2010).
- d) Research matters that are referred to it by Council and assist by providing recommendations to Council on such matters.



Port Hardy Fire Rescue

Department



Mission Statement

“To provide the citizens of Port Hardy with proactive, effective and efficient delivery of fire, rescue, public education and fire prevention services; through a unified forward thinking, organization with good morale and with the highest standards of personnel safety, fairness and professionalism.”

Port Hardy Fire Rescue (PHFR), provides firefighting, road rescue and other emergency services to an area encompassing 42 square kilometres. PHFR responds to an average 175 emergency calls on the North Island including Mutual Aid calls to Coal Harbour, Port Alice, Port McNeill and the Regional District of Mount Waddington electoral areas.

Port Hardy has fire service agreements with the Kwakiutl and Gwa'sala-'Nakwaxkda'xw Reserves. PHFR also responds to requests from the Coastal Fire Centre for fire protection services.

Port Hardy Fire Rescue is a paid-on-call fire department consisting of approximately 30 members who meet weekly for regularly scheduled training to maintain a high-level of protective emergency services.



Port Hardy Fire Rescue

Membership

Port Hardy Fire Rescue was established in 1968, and since its establishment has relied on local men and women to answer the call, day or night, when an emergency happens.

Today, 50 years later, the equipment has changed, firefighting has evolved, and the training has improved, but the need for dedicated members remains the same.

With a volume of 175+ calls per year, two stations, and six apparatus, Port Hardy Fire Rescue is the busiest department on the North Island. New members are always needed to help maintain the fire protection needs of the area.



Port Hardy Fire Rescue

Training

Our members are trained to the National Fire Protection Association (NFPA) 1001 firefighting standards administered through the Justice Institute of British Columbia to provide you with service you can count on.

Our members meet weekly on Thursday nights from 7:00pm-9:00pm to undertake routine practice, and participate in many weekend training events, often with professional-level experts from the field. Our members also regularly participate in training events across Vancouver Island and British Columbia to broaden the scope of practice and standard of safety to which we operate.



Pictures are from training sessions

Public Education

**Education is the best prevention.
"WORKING SMOKE ALARMS SAVE LIVES"**

Education is the keystone of fire prevention, and one of the important cornerstones of our department's mandate. Throughout the year, our members volunteer to provide fire station tours to children in the community and deliver fire prevention seminars to schools throughout the District of Port Hardy.

Throughout the year, we also host a variety of events including an open house with live fire demonstrations. These events not only provide a realistic perspective on the consequences of fire in the home but provide us with an opportunity to engage both children and adults and discuss how they can increase their fire prevention practices in the home.



Port Hardy Fire Rescue

Port Hardy Volunteer Firefighters Association



The Port Hardy Volunteer Firefighters Association (PHVFA) is a not-for-profit organization incorporated in British Columbia and funded in part by grants-in-aid through the District of Port Hardy and independent fundraising initiatives.

The PHVFA represents the membership of Port Hardy Fire Rescue and has several purposes. Most important, the PHVFA serves to strengthen relationships among members, and to thank them for their service. Throughout the year, the PHVFA plans several events including an annual camp-out and fishing derby which provide members with an opportunity to socialize outside of their firefighting role.

The PHVFA is also passionate about supporting Muscular Dystrophy Canada, an organization that firefighters across Canada loyally support. A portion of fundraising efforts throughout the year is dedicated towards MD Canada.

The PHVFA also includes fire prevention education in its mandate and works closely with Port Hardy Fire Rescue to improve prevention education in the community.



Harbour

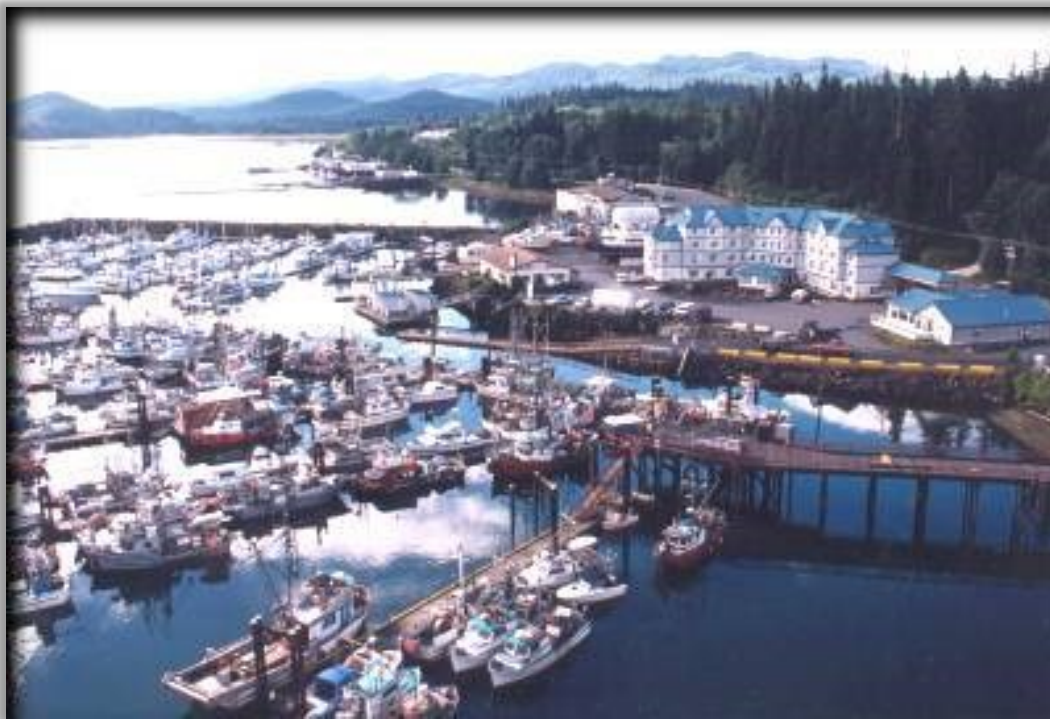
The District of Port Hardy manages four harbour facilities; Seagate Pier, Fisherman's Wharf, Seine Floats and Bear Cove Recreational Park. The Seine Floats and Fisherman's Wharf are Federal Small Craft Harbours Infrastructure which the District manages, while the Seagate Pier and Bear Cove are District assets. The Harbour manager, Aries Security, manages three of the four facilities, while District staff manage Bear Cove.

Seagate Pier, the Seine Floats and Fisherman's Wharf together welcomed 2,929 vessels in 2018, for a combined total of 38,468 boat days. We anticipate seeing this number climb in 2019 as we welcome the Van Isle 360 in June 2019 for another destination stop as they circumnavigate the island.

The winter brings some gusty winds, as we have become accustomed to in the North Island. Last year was certainly no exception! In April, Fisherman's Wharf experienced a major infrastructure failure on H Dock, when a hefty wind forced a break in an entire set of piles, leaving the dock at the mercy of the wind, waves and weight of the vessels.

The fast action of harbour staff; the quick response of our local Canadian Coast Guard; with the financial support of Small Craft Harbours, and under the direction of one of their project engineers, the situation was swiftly brought under control. Thankfully, Joe McAlister of Tuff Marine happened to be around the corner, in Port McNeill, with a few extra pilings in tow!

H-Dock now sports newly driven piles with an extra set on the north tip, for good measure. Further, the Small Craft Harbours Program Officer appointed to the North Island sourced funding to provide the facility with fire extinguishers.



Fisherman's Wharf 6600 Hardy Bay Road



Harbour

The tidal grid, located at Fisherman's Wharf, was repaired after one of the beams gave way in the summer 2018. For some vessel owners, it is the only option to inspect or repair their vessels, and it is a valuable piece of infrastructure to maintain.

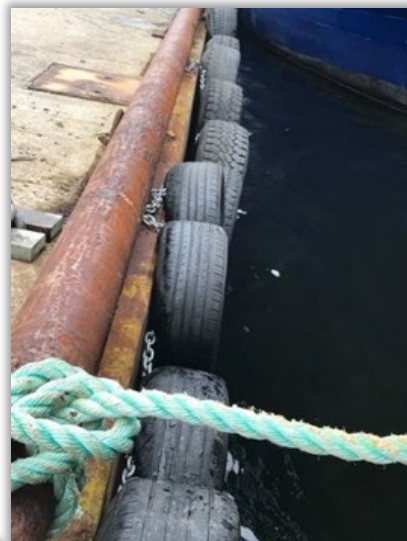


In response to several emergencies at the harbour, the harbour staff designed an emergency cart to hold all the necessary equipment that may be required for a single staff member to aid in the event of a sinking vessel. It was deployed several times in 2018, all with positive results.

Harbour



In 2018 the District of Port Hardy in conjunction with funding from Small Craft Harbours replaced the bumper tires protecting the Seine float infrastructure and vessels moored to the float system. New galvanized steel tie rails were installed along the main Seine float dock and the metal drive-on ramp was repaired. Anodes were installed on each of the steel piles to add longevity to the structure.



Seine Floats 8555 Glenview Road

Harbour

Seagate Pier
and T-Floats
8500 Granville

“Image i-28375
courtesy of the
Royal BC Museum
and Archives.”



The Seagate Pier received beautification in 2018 that we hope will highlight the seaside paradise that we all get to call home! Three art signs were mounted on the lookout along the pier which provides continuity to the seawall along Carrot Park to Tsulquate Park.



A Personal Flotation Device shack with fish scale, was mounted on the summer T-Floats. This allows our recreational fishers to lead their own fun fishing derby off the pier while keeping everyone safe, in case they forget to bring their own flotation to the seashore.



Harbour

Seagate Pier
and T-Floats
8500 Granville

“Image i-28374
courtesy of the
Royal BC Museum
and Archives.”



The Seagate Pier Welcome Banner provides a lovely photo opportunity for guests and locals, alike. It also draws attention to the communication boards mounted on the posts. The District of Port Hardy invested further into the facility by installing two steel piles to stabilize the seasonal T-Float structure during high wind events.



Every step of the way has presented new challenges, for Harbour management, but with challenge comes opportunity. The harbour management team are eager to build on the momentum that we have gained, and we look forward to continuing to be ambassadors for our community.

Harbour

Bear Cove Recreational Site ~ Port Hardy's Hidden Jewel

• • • • • • • • • •



District care-takers continue to manage the Bear Cove Recreational Site. This seasonal facility is open from June 1st to September Labour Day weekend.

Bear Cove continues to offer free launching and day parking. Reserved moorage is available at rates published in the District User Rates and Fees Bylaw.



Twinning

PORT HARDY TWINNING SOCIETY

Port Hardy, BC - Numata, Hokkaido

Canada - Japan



2018 was a quiet year for the Twinning Society with only one major event planned for the year, the October visit of a delegation from Numata. The focus of the Society was to look at ways and means of fostering greater awareness of the sister-city / twinning program in our community, gaining new members and re-connecting with those not as active in the past few years. The Society thanks our members and the many other volunteers in the community who helped make 2018 a good year.

Highlights:



Twinning Garden at Carrot Park

Throughout 2018 the garden was maintained by Society members with garden clean up and trimming of plants ongoing throughout the year.

Filomi Days

2018 was the first time in many, many years that the Twinning Society was not able to turn out and participate in the parade and Filomi Days activities.



Twinning

Torri Gate

Visitors are often seen posing for photographs and there has been no vandalism to the gate to date. We are happy and proud that the citizens of Port Hardy cherish this remarkable addition to Carrot Park.

Media

The Port Hardy Twinning Society Facebook page continues to be visited regularly by Society members and citizens of both Port Hardy and Numata. Society events, photos and activities are uploaded and updated regularly. It has been a great way to let people know who we are, and what the Society does. Our local newspapers have shown great support for the Twinning Society through articles and interviews throughout the year.



May 2018 - Private Visit

Robert and Leslie Driemel (PHTS Chair) made a pre-arranged private visit to Numata in May as part of a three week holiday in Japan. This was the first time Port Hardy residents have made a private trip to Numata. It was a good opportunity to meet informally with Mayor Kanehira and further cement friendships in the town. The hospitality shown to the visitors was excellent as always!

October 2018 - Delegation from Numata



This was the big event for 2018! There were 13 in the delegation: 9 students (13-14 years of age and all girls!) and 4 adults. The visit was a quick and busy one and took place over the days of October 23 - 28. The Port Hardy Twinning Society organized great daily activities for our guests.



Visit events included:

- A welcome by Mayor and Councillors at the Municipal Hall.
- Visits to Avalon Adventist Academy, Gwa'sala-'Nakwaxda'xw, Wagalus and Port Hardy Secondary schools.
- Hardy Buoys Tour & Pumpkin Carving.
- Fire Hall tour and a craft project.
- Pizza and bowling night with host families.
- RCMP tour - complete with mug shots and jail time!
- Quatse Salmon Center & Grassroots Garden tour.
- Visiting the Library, Museum and of course shopping!



Twinning

There were new as well as repeat homestay families this visit who all made the delegation members very welcome in their homes and in our community. The girls were at first a little shy but quickly took to their 'new' families and there were tears at the good bye dinner. Once again great memories and friendships have grown from the sister city relationship between Port Hardy and Numata.

This year the Society was very fortunate to have the help of Cody Smedley, a fluent speaker of Japanese, who took time off from work to help with the visit. In 2013 Cody visited Numata with the Port Hardy delegation...and he has said it changed his life! He went on to university to study the Japanese language and from there spent a full year at university in Japan. He had an excellent rapport with both the adults and young students. Cody, we couldn't have done it without you!



The Society and our members thank all the homestay families for sharing their lives, the businesses and organizations we visited for their great hospitality. The Society also thanks the Mayor and Council, especially Councillors John Tidbury and Pat Corbett-Labatt for their hard work and support throughout the visit.



Finance



Fiscal responsibility and financial sustainability are key goals of the District of Port Hardy's Finance Department. These goals are achievable with informed decision making and clear direction between staff and Council. Maintaining and improving service levels for the citizens of Port Hardy are a focus for Council and it is the responsibility of the finance department to find a balance of funding for these goals.

Capital projects including revitalization, infrastructure, and business attraction are projects that Council are directing staff to work towards so that financial sustainability for the District is achieved. The finance department reports to Council the fiscal viability and constraints with regards to Capital projects so that Council is able to make informed decisions when deciding which projects will benefit the citizens of Port Hardy.

Financial Activities of the Finance Department include:

Financial planning

- Annual five year financial plan, user rates and fees structure.

Financial reporting

- Audited financial statements, municipal tax rates, statement of financial information submitted to the Provincial Government.

Revenue collection

- Property tax collection, quarterly utility revenue, other revenue including user fees for services provided.

Payment of accounts

- Payments to hundreds of suppliers annually.

Other activities

- Internal auditing controls, payroll functions, invoicing, debt financing, business licences and other activities required to manage the District's financial matters.



Finance

Taxable Property Assessments

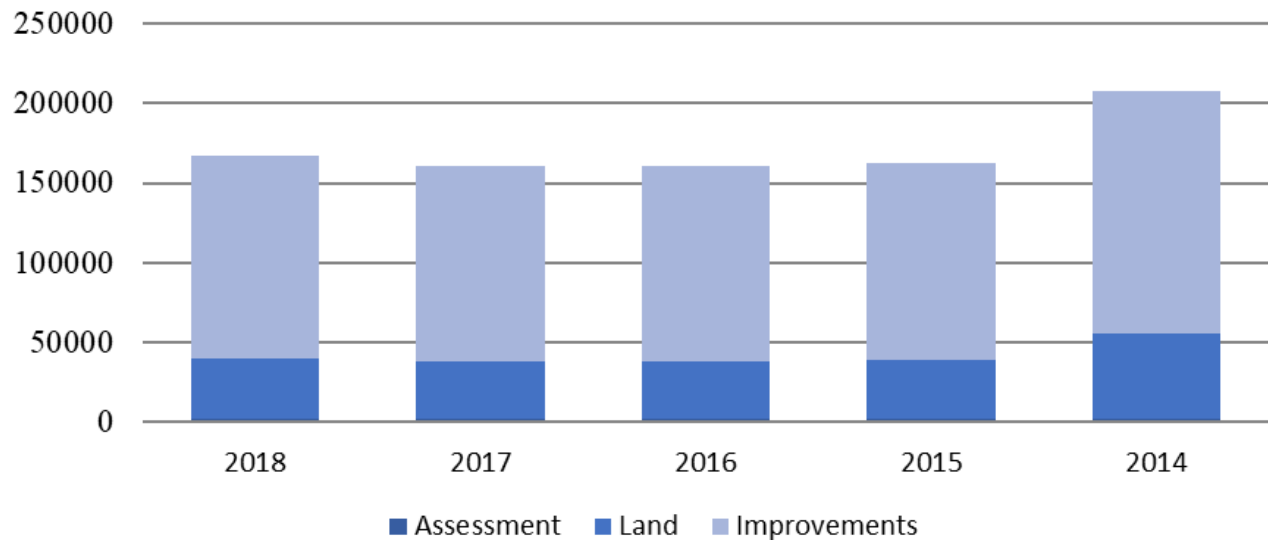
• • • • • • • • • •

Taxable Property Assessments

(in \$1,000's)

| | 2018 | 2017 | 2016 | 2015 | 2014 |
|--------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Residential | \$ 254,253 | \$ 243,564 | \$ 242,790 | \$ 246,311 | \$ 261,596 |
| Utilities | 766 | 768 | 765 | 767 | 751 |
| Light Industry | 3,966 | 3,800 | 3,837 | 3,839 | 3,804 |
| Business | 64,866 | 62,182 | 58,160 | 58,776 | 58,419 |
| Managed Forest | 420 | 379 | 386 | 357 | 322 |
| Recreation/Non Profit | 1,101 | 1,058 | 1,016 | 461 | 346 |
| | \$ 325,372 | \$ 311,751 | \$ 306,954 | \$ 310,511 | \$ 325,237 |
| % change from prior year | 4.37% | 1.56% | -1.15% | -4.53% | 1.83% |

Average Single Family Residential Assessed Value

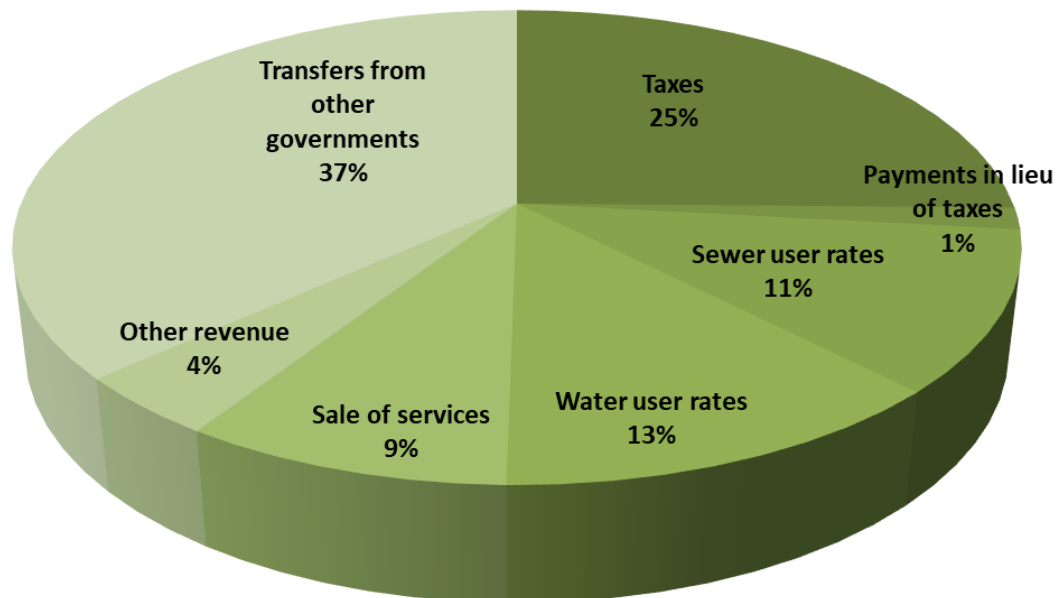


Finance

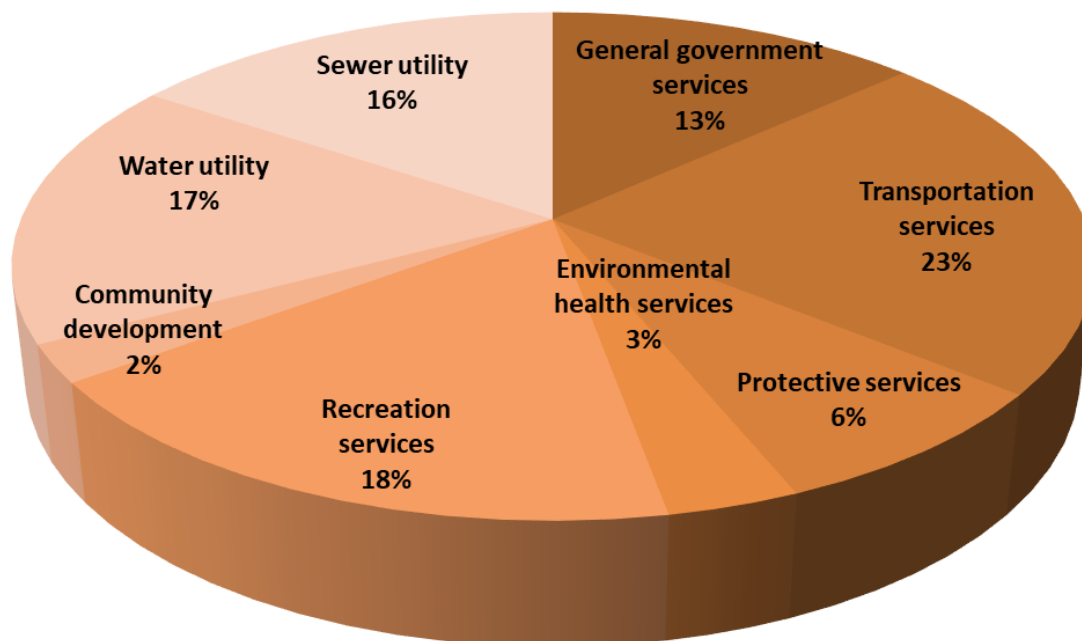
2018 Revenues & Expenses by %

• • • • • • • • • •

2018 Revenues



2018 Expenses

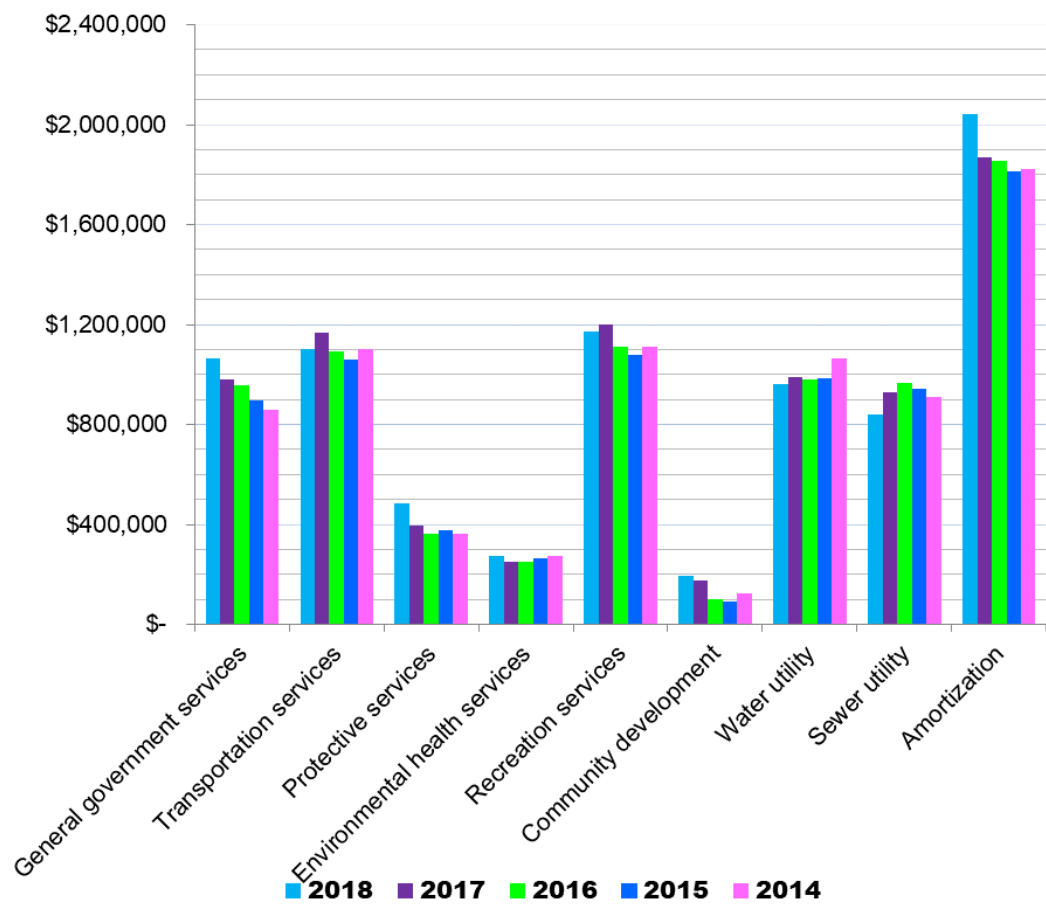


Finance

2018 Expenses by Function

• • • • • • • • • •

| | 2018 | 2017 | 2016 | 2015 | 2014 |
|-------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| General government services | \$ 1,065,287 | \$ 982,760 | \$ 958,740 | \$ 897,331 | \$ 856,904 |
| Transportation services | 1,102,650 | 1,165,374 | 1,092,063 | 1,062,216 | 1,104,213 |
| Protective services | 484,632 | 397,982 | 361,479 | 376,914 | 361,526 |
| Environmental health services | 272,302 | 248,738 | 250,704 | 265,487 | 273,210 |
| Recreation services | 1,172,965 | 1,198,794 | 1,110,075 | 1,079,890 | 1,110,193 |
| Community development | 194,240 | 177,987 | 102,389 | 93,595 | 123,013 |
| Water utility | 961,736 | 991,309 | 979,050 | 982,958 | 1,065,927 |
| Sewer utility | 839,804 | 929,484 | 966,915 | 941,486 | 910,759 |
| Amortization | 2,041,470 | 1,869,979 | 1,853,138 | 1,812,521 | 1,820,611 |
| | \$ 8,135,086 | \$ 7,962,407 | \$ 7,674,553 | \$ 7,512,398 | \$ 7,626,356 |



Finance

2018 Permissive Tax Exemptions

• • • • • • • • • •

| DISTRICT OF PORT HARDY | |
|--|-------------------|
| Schedule of Property Tax Permissive Exemptions | |
| For year ended December 31, 2018 | |
| Organization | Total |
| Fort Rupert Curling Club | \$ 6,293 |
| Grassroots Garden Society | 809 |
| North Island Crisis and Counseling Centre Society | 4,410 |
| Pentecostal Assemblies of Canada | 4,033 |
| Port Hardy Baptist Church | 4,013 |
| Port Hardy Chamber of Commerce | 4,079 |
| Port Hardy Congr Jehovah's Witnesses | 1,304 |
| Port Hardy Ecumenical Society | 2,319 |
| Port Hardy Heritage Society | 4,818 |
| Port Hardy Hospital Auxiliary | 2,910 |
| Rainbow Country Daycare Society | 2,359 |
| Royal Canadian Legion | 2,370 |
| Seventh Day Adventist Church | 29,153 |
| St. Bonaventure Catholic Church | 1,586 |
| Tri Port Motorsport Association | 1,122 |
| Vancouver Island Health Authority | 122,159 |
| PH Seniors Housing | 610 |
| | \$ 194,346 |

The 2018 Audited Financial Statements are located as Appendix III starting on page 49 of this document.



Appendix I

• • • • •

Water Treatment Plant & Distribution System





WATER TREATMENT PLANT & DISTRIBUTION SYSTEM



2017 Annual Operations Performance Report

Facility Numbers 529 & 155

TABLE OF CONTENTS

| | |
|---|----|
| 1. OVERVIEW | 1 |
| 2. PERMIT TO OPERATE | 1 |
| 3. CERTIFIED OPERATORS | 1 |
| 4. OPERATIONAL HIGHLIGHTS..... | 2 |
| 5. CROSS CONNECTION CONTROL PROGRAM..... | 3 |
| 6. WATER WISE PROGRAM CONTINUATION..... | 3 |
| 7. WATER PLANT AND DISTRIBUTION CHECKS..... | 4 |
| 8. RAW AND TREATED WATER PRODUCTION..... | 5 |
| 9. CHEMICAL USAGE | 5 |
| 10. FILTERED WATER QUALITY | 6 |
| 11. RESERVOIR EFFLUENT | 6 |
| 12. DISTRIBUTION WATER QUALITY AND BACTERIOLOGICAL RESULTS..... | 7 |
| 13. TRIHALOMETHANE/HALOACETIC ACID RESULTS..... | 11 |
| 14. ADDITIONAL SAMPLING RESULTS..... | 15 |

OVERVIEW

Port Hardy, with a population of 4,132 residents and over 5,000 connected to the infrastructure is located at the northern end of Vancouver Island. In May 2000 the water treatment plant was commissioned and established Port Hardy's reputation for having some of British Columbia's best water quality.

Port Hardy's source water is the Tsulquate River. The water from this river is tinted brown from tannins and other leachates. Port Hardy's Water Treatment Plant uses a Dissolved Air Flotation (DAF) system which is very effective in treating highly colored water. Treatment is achieved using ISOPAC 6 and Soda Ash to remove the color, particles, sediment and organics that are present. A filter aid, Hydrofloc 400 is added in trace amounts after the DAF treatment and prior to the filters to improve coagulation of fine particles. Filtration is done through a mixed media consisting silica sand and anthracite. Lime slurry, carbon dioxide and sodium hypochlorite are injected post filtration for alkalinity, pH adjustment and disinfection.

In 2018, the plant continued to produce a very high level of treatment providing excellent water quality to the District of Port Hardy.

PERMIT TO OPERATE

The Port Hardy water treatment plant is a Level III facility as deemed by the Environmental Operators Certification Program (EOCP), certification number 529. The distribution system is a Level III system with a certification number of 155.

CERTIFIED OPERATORS

The Operational Permit from Vancouver Island Health Authority Operational requires that a certified operator is employed to match the Water Treatment Plant Certification, a level III plant. The District currently employs a Level IV operator and two, Level III operators. The District also employs a Level III Water Distribution Operator.

| Operator | Title | Certification |
|----------------|----------------------|------------------------------|
| Joe Jewell | Utilities Supervisor | WT IV, WD III, WWT II, WWC I |
| Justin Reusch | Chief Operator | WT III, WD II, WWT II |
| Roland LeFort | Operator | WWT III, WT III |
| Cory Henschke | Operator | WWT I, WD II |
| Robert Cousins | Operator | WT I, WWT I |

OPERATIONAL HIGHLIGHTS

WATER TREATMENT PLANT

Throughout 2018, there were times where due to heavy rains and high river colour events, that the water treatment process was upset. In these events, the plant is taken offline and no water is pumped to the reservoir. Water is only pumped to the reservoirs once the treatment plant's process quality is restored. This will result in lower than desired reservoir levels but quality will not be compromised.

Many capital projects were undertaken in 2018. The backup raw water pump was sent out for a rebuild this year. Upon it's return, it was put online and the main pump sent out for its rebuild. The main pump had been in service over 10 years.

New online turbidimeters were purchased to monitor raw and treated water quality. The existing turbidimeters are now obsolete and parts are becoming more difficult to find.

Spare components for the water plant's multiple Programmable Logic Controllers (PLCs) were purchased this year. The water plant incorporates 5 PLCs that monitor several hundred inputs in the process. If any portion of the PLC was to fail, the water plant process would stop, ceasing production of potable water. The original PLCs were installed in 2000 with one being replaced in 2016.

Additional highlights:

- No violations to permit in 2018
- Quarterly samples for THMs and HAAs all returned within acceptable limits
- All bacteriological testing came back within expected parameters
- Seasonal low river levels due to dry weather triggered a Stage 2 water use restriction as per Port Hardy Water Conservation Bylaw No. 06-2005.
- A Stage 3 water use restriction was triggered when the water reservoir #1 was removed and while a replacement was being constructed
- 130 ML less water was treated in 2018 compared to 2017; this is the lowest production since the water treatment plant was commissioned in 2000. This is due to the utilities crew continuing to make needed repairs and the implementation of the water conservation bylaw

WATER DISTRIBUTION SYSTEM

In 2018, the District of Port Hardy commenced on a major upgrade to the water distribution system in the Storey's Beach area. A new 2000 cubic meter (m³) reservoir was constructed on Fort Rupert Road and 3000 meters of distribution pipe was replaced. The replacement distribution pipe was also increased in size from 150mm and 250mm to 300mm and 350mm. Additional hydrants were also installed insuring a fire flow of 150 Litres/second where required. The Fort Rupert Reservoir site is equipped with backup power generation and chlorine disinfection booster pumps. The reservoir level is controlled by an altitude control valve which keeps the tank at a predetermined level within 1.5 meters. A rolling diaphragm pressure reducing valve is also installed on site to regulate the pressure in the event the reservoir is offline. The entire site can be monitored remotely from the water treatment.

A new Pressure Reducing Station (PRV) was installed at the corner of Beaver Harbour Road and Storey's Beach Road. This station reduces the mainline pressure from Storey's Beach Road to Chatham Avenue.

Also, as part of the project, Reservoir #1 at the water treatment plant was replaced. In March, the existing reservoir was taken offline. A new concrete base was poured, and new inlet and outlet valves installed. The new tank, is a 2700 cubic meter (m³) glass fused to steel (GFS) construction, has much lower maintenance requirements and a larger capacity. A new check valve system in the tank ensures better mixing of the water. The new tank was brought online in June.

The Holgrem Flats PRV station was rebuilt this summer. The original installation was in 1990 and was beginning to have some operational issues. Both valves, the pressure relief system and the electrical components were all rebuilt by the Utilities staff.

Tree and brush removal along the water mains was also a capital project this year. Keeping the watermains clear of large vegetation makes identifying and repairing leaks much easier reducing time that the community is without water. Local contractors were solicited for this work. Part of this work involved removing trees under the power line to the water treatment plant. As a result, there has been less power bumps at the water plant and less operator call outs.

Staff have also been working on the mapping project. A new set of water distribution maps are being worked on. Utilities staff have been verifying the details of maps and noting changes that are needed. The maps will then be returned and adjustments made.

Additional Highlights:

- Water meters were installed in more commercial properties in 2018
- In January, the Port McNeill PRV station was found to be badly leaking. Repair parts were ordered and installed until the new water system was completed
- The 2" water meter serving the Gwa'Sala-Nakwaxda'xw First Nation was found inoperable and a new meter was installed
- In February, brief water outages were caused twice when the contractor broke the water services to the Fort Rupert School and Fort Rupert Liftstation. Bacteriological samples were sent out with good results returned
- A new water service was installed to Fire Hall #2 at Storey's Beach in March
- All hydrants were serviced in 2018
- The fibre optic installation continued in 2018. Utilities operators continued to locate and mark our utilities. As a result, many of our service cards and maps were corrected or new cards were created. Any services that were found in need of repair were fixed
- All Utilities operators received training on the Hydroexcavation truck this year and received the required Continuing Education Units (CEUs) credits for the course

CROSS CONNECTION CONTROL

A formal Cross Connection Control program, created by Maintenance Tracking Systems Inc (MTS) was presented to the District of Port Hardy in late 2010. Currently, backflow preventers are installed in all high risk areas of the treatment plants, liftstations with a washdown hose, public sani dumps and public gardens.

WATER WISE PROGRAM CONTINUATION

A total of 178 meters are being read including commercial users and multi-family dwellings. All new homes and constructions will have meter setters installed as part of this program. Continuing public education around proposed metering/rate changes and general information on water wise initiatives was conducted and will be ongoing until all users are metered. In 2016, new watering restrictions as per Port Hardy Water Conservation Bylaw No. 06-2005 were adopted. As part of the water system upgrade in 2018, water meter setters were installed on all single family dwellings on Beaver Harbour Road as new service lines were run to the property line.

WATERSHED PROTECTION PLAN

The District of Port Hardy has taken steps to implement a watershed protection plan. The purpose of this is to create a plan that guides users in the best management and preservation of the Tsulquate River and Kains Lake watershed as a drinking water source for the District of Port Hardy. The plan will develop a public awareness, identify stakeholders, increase knowledge and public awareness of the watershed and develop procedures for an emergency response.

| Water Treatment Plant / Distribution Testing | | | | | | | | | | | | | |
|--|---------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|-------|
| | January | February | March | April | May | June | July | August | September | October | November | December | Total |
| Raw Water pH | 27 | 24 | 26 | 26 | 27 | 30 | 27 | 27 | 25 | 27 | 26 | 26 | 318 |
| Reservoir Water pH Daily Grab Sample or Continuous 7.0 - 10.5 | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 | 31 | 30 | 31 | 365 |
| Colour (Reservoir) AO: <= 15 TCU | 27 | 24 | 26 | 26 | 27 | 25 | 27 | 27 | 25 | 27 | 26 | 26 | 313 |
| Free Chlorine Residual (Reservoir) Daily Grab Sample or Continuous | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 | 31 | 30 | 31 | 365 |
| Free Chlorine Residual Distribution Grab Sample | 48 | 40 | 46 | 42 | 44 | 47 | 48 | 46 | 42 | 44 | 42 | 42 | 531 |
| Turbidity (Distribution) Grab Samples | 48 | 40 | 46 | 42 | 44 | 47 | 48 | 46 | 42 | 44 | 42 | 42 | 531 |
| Turbidity (Filter) Grab Sample or Continuous <= 0.3 NTU in at least 95%; never > 1.0 NTU | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 | 31 | 30 | 31 | 365 |
| Turbidity (Reservoir) Daily Grab Sample or Continuous 1 NTU Maximum in finished water | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 | 31 | 30 | 31 | 365 |
| Escherichia Coli (<i>E.coli</i>) 11 per month Distribution, 1 Raw MAC: 0 CFU/100mL | 12 | 14 | 17 | 12 | 12 | 40 | 14 | 12 | 12 | 12 | 12 | 12 | 181 |
| Total Coliforms 11 per month Distribution, 1 Raw MAC: 0 CFU/100mL | 12 | 14 | 17 | 12 | 12 | 40 | 14 | 12 | 12 | 12 | 12 | 12 | 181 |
| Chemical and Physical Parameter Tests Once every 5 years Due 2019 | | | | | | | | | | | | | 0 |
| Trihalomethanes & Haloacetic Acids (THMs & HAAs) Quarterly <0.100 mg/L annual average | 1 | | | 1 | | | 1 | | | 1 | | | 4 |
| Monthly Report 15 th of the following month | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 12 |
| Annual Report Before January 31 st | 1 | | | | | | | | | | | | 1 |
| Permit Violations | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Workplace Metrics | | | | | | | | | | | | | |
| | January | February | March | April | May | June | July | August | September | October | November | December | Total |
| Safety Meetings | 1 | 1 | 1 | 1 | 1 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 22 |
| Worksite Inspections | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 12 |
| Kain's Lake Dam Inspections | 2 | 2 | 2 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 4 | 2 | 48 |
| Water Service Locates | 5 | 1 | 1 | 3 | 6 | 20 | 3 | 1 | 1 | 6 | 3 | 1 | 51 |
| Water Service Repairs | 5 | 3 | 2 | 0 | 3 | 0 | 6 | 0 | 1 | 1 | 0 | 0 | 21 |
| Water Main Repairs | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| BC One Calls | 14 | 11 | 16 | 6 | 17 | 9 | 8 | 8 | 40 | 21 | 16 | 5 | 171 |
| PRV Inspections | 7 | 0 | 0 | 0 | 0 | 1 | 7 | 0 | 7 | 0 | 7 | 0 | 29 |
| ERP Exercises | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Air Valve Inspections | 2 | 2 | 2 | 0 | 0 | 0 | 5 | 0 | 0 | 12 | 18 | 0 | 41 |
| Mainline Valve Locates/Inspections | 0 | 3 | 1 | 0 | 1 | 6 | 14 | 24 | 0 | 1 | 0 | 0 | 50 |
| Hydrant A - Services | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hydrant B - Services | 0 | 0 | 0 | 0 | 0 | 0 | 82 | 60 | 66 | 0 | 0 | 0 | 208 |

RAW AND TREATED WATER PRODUCTION

| | January | February | March | April | May | June | July | August | September | October | November | December | Total |
|-----------------------------------|---------|----------|-------|-------|-----|-------|------|--------|-----------|---------|----------|----------|-------|
| Raw Water Pumped in ML | 124 | 119 | 125 | 118 | 131 | 128 | 142 | 151 | 123 | 130 | 112 | 111 | 1513 |
| Treated Water Production in ML | 120 | 117 | 122 | 112 | 128 | 124 | 138 | 147 | 119 | 122 | 109 | 108 | 1467 |
| Rainfall in mm | 129 | 157 | 91 | 85 | 9 | 106.7 | 19.6 | 16 | 169 | 173.6 | 264.8 | 396.2 | 1616 |
| Backwashes | 36 | 34 | 34 | 36 | 37 | 33 | 39 | 38 | 32 | 34 | 36 | 37 | 426 |

CHEMICAL USAGE

| | January | February | March | April | May | June | July | August | September | October | November | December | Total |
|---|---------|----------|-------|-------|------|------|------|--------|-----------|---------|----------|----------|-------|
| ISOPAC 6 Coagulant in kg | 3355 | 2847 | 2859 | 2839 | 2276 | 3302 | 2811 | 1830 | 4105 | 5357 | 4892 | 4329 | 40802 |
| Soda Ash in kg | 1294 | 1158 | 1033 | 1339 | 817 | 1067 | 772 | 250 | 1203 | 1884 | 1952 | 2066 | 14835 |
| Filter Aid (LT20) in kg | 1.03 | 0.82 | 0.86 | 0.81 | 1.20 | 1.20 | 1.19 | 0.82 | 0.60 | 0.62 | 0.75 | 0.78 | 10.68 |
| Salt for Chlorine Generator in kg | 363 | 272 | 363 | 454 | 400 | 680 | 499 | 568 | 776 | 613 | 431 | 522 | 5942 |
| Liquid Sodium Hypochlorite 12% in kg | 20 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| Lime in kg | 1935 | 1499 | 1614 | 1853 | 1834 | 1894 | 2043 | 2045 | 1854 | 2037 | 2004 | 2018 | 22629 |
| Carbon Dioxide in kg | 2248 | 1744 | 1708 | 2415 | 2471 | 2583 | 3049 | 2904 | 2587 | 2304 | 2776 | 1717 | 28507 |

FILTERED WATER QUALITY

| Month | Filter 1 | | Filter 2 | | Filter 3 | | Filter 4 | |
|-----------|----------|------|----------|------|----------|------|----------|------|
| | Avg | Max | Avg | Max | Avg | Max | Avg | Max |
| January | 0.04 | 0.29 | 0.05 | 0.29 | 0.12 | 0.29 | 0.04 | 0.29 |
| February | 0.07 | 0.29 | 0.07 | 0.29 | 0.08 | 0.29 | 0.06 | 0.29 |
| March | 0.04 | 0.29 | 0.04 | 0.29 | 0.04 | 0.29 | 0.04 | 0.29 |
| April | 0.04 | 0.29 | 0.04 | 0.29 | 0.04 | 0.29 | 0.03 | 0.29 |
| May | 0.03 | 0.29 | 0.03 | 0.29 | 0.03 | 0.29 | 0.02 | 0.29 |
| June | 0.03 | 0.29 | 0.04 | 0.29 | 0.03 | 0.29 | 0.03 | 0.29 |
| July | 0.03 | 0.17 | 0.04 | 0.29 | 0.03 | 0.24 | 0.02 | 0.22 |
| August | 0.04 | 0.29 | 0.03 | 0.29 | 0.04 | 0.29 | 0.01 | 0.29 |
| September | 0.03 | 0.29 | 0.04 | 0.29 | 0.03 | 0.25 | 0.03 | 0.19 |
| October | 0.04 | 0.29 | 0.04 | 0.29 | 0.04 | 0.29 | 0.03 | 0.29 |
| November | 0.03 | 0.29 | 0.04 | 0.29 | 0.03 | 0.29 | 0.02 | 0.29 |
| December | 0.03 | 0.29 | 0.04 | 0.29 | 0.03 | 0.30 | 0.02 | 0.29 |
| Average | 0.04 | 0.28 | 0.04 | 0.29 | 0.05 | 0.28 | 0.03 | 0.28 |
| Minimum | 0.03 | 0.17 | 0.03 | 0.29 | 0.03 | 0.24 | 0.01 | 0.19 |
| Maximum | 0.07 | 0.29 | 0.07 | 0.29 | 0.12 | 0.30 | 0.06 | 0.29 |

RESERVOIR EFFLUENT

| Month | Flow (m ³ /hour) | | Free Chlorine (mg/L) | | pH | | Turbidity (NTU) |
|-----------|--------------------------------|-----|-------------------------|-----|-----|-----|--------------------|
| | Avg | Max | Avg | Max | Avg | Max | Avg |
| January | 128 | 234 | 1.0 | 1.0 | 7.5 | 7.5 | 0.04 |
| February | 142 | 313 | 1.0 | 1.1 | 7.5 | 7.6 | 0.02 |
| March | 138 | 216 | 1.0 | 1.1 | 7.5 | 7.6 | 0.03 |
| April | 138 | 216 | 1.1 | 1.2 | 7.5 | 7.6 | 0.05 |
| May | 151 | 236 | 1.1 | 1.1 | 7.3 | 7.3 | 0.01 |
| June | 147 | 198 | 1.0 | 1.1 | 7.4 | 7.4 | 0.10 |
| July | 160 | 207 | 1.0 | 1.0 | 7.4 | 7.5 | 0.03 |
| August | 186 | 370 | 1.0 | 1.0 | 7.4 | 7.5 | 0.06 |
| September | 152 | 254 | 1.0 | 1.1 | 7.3 | 7.4 | 0.07 |
| October | 142 | 183 | 1.0 | 1.1 | 7.3 | 7.4 | 0.10 |
| November | 133 | 207 | 0.9 | 1.0 | 7.4 | 7.5 | 0.14 |
| December | 133 | 331 | 1.0 | 1.0 | 7.4 | 7.5 | 0.10 |
| Avg | 146 | 247 | 1.0 | 1.1 | 7.4 | 7.5 | 0.06 |
| Min | 128 | 183 | 0.9 | 1.0 | 7.3 | 7.3 | 0.01 |
| Max | 186 | 370 | 1.1 | 1.2 | 7.5 | 7.6 | 0.14 |

Note: Data from the above tables are accumulated from online instrumentation and SCADA trending. Maximum values can be influenced by cleaning, calibrating and flushing of online instrumentation which at that time does not reflect the actual quality of the water.

DISTRIBUTION WATER QUALITY AND BACTERIOLOGICAL RESULTS

| January | | | | | February | | | | | March | | | | |
|------------------------------------|----------|--------------------|---------------|---------|------------------------------------|----------|--------------------|---------------|-----|------------------------------------|------------|--------------------|---------------|-----|
| Distribution Sampling | | | | | Distribution Sampling | | | | | Distribution Sampling | | | | |
| Location | Date | Free Chlorine mg/L | Turbidity NTU | pH | Location | Date | Free Chlorine mg/L | Turbidity NTU | pH | Location | Date | Free Chlorine mg/L | Turbidity NTU | pH |
| Chatham Avenue | 01-02-18 | 0.7 | 0.14 | 7.7 | Chatham Avenue | 02-05-18 | 0.8 | 0.17 | 7.5 | Chatham Avenue | 03-06-18 | 0.8 | 0.30 | 7.6 |
| | 01-09-18 | 0.7 | 0.22 | 7.6 | | 02-06-18 | 0.7 | 0.11 | 7.8 | | 03-13-18 | 0.7 | 0.16 | 7.6 |
| | 01-16-18 | 0.6 | 0.12 | 7.8 | | 02-07-18 | 0.7 | 0.21 | 7.6 | | 03-20-18 | 0.6 | 0.13 | 7.6 |
| | 01-23-18 | 0.8 | 0.14 | 7.8 | | 02-13-18 | 0.8 | 0.14 | 7.6 | | 03-27-18 | 0.8 | 0.11 | 7.6 |
| | 01-30-18 | 0.8 | 0.21 | | | 02-20-18 | 0.8 | 0.25 | 7.6 | | 03-28-18 | 0.7 | 0.12 | 7.7 |
| Peel Street Liftstation | 01-02-18 | 0.8 | 0.13 | 7.5 | Peel Street Liftstation | 02-06-18 | 0.7 | 0.13 | 7.7 | Peel Street Liftstation | 03-06-18 | 0.8 | 0.13 | 7.6 |
| | 01-09-18 | 0.8 | 0.34 | 7.4 | | 02-13-18 | 0.7 | 0.19 | 7.4 | | 03-13-18 | 0.7 | 0.14 | 7.4 |
| | 01-16-18 | 0.7 | 0.12 | 7.5 | | 02-20-18 | 0.9 | 0.38 | 7.5 | | 03-20-18 | 0.7 | 0.25 | 7.6 |
| | 01-30-18 | 0.7 | 0.21 | 7.7 | | 02-27-18 | 0.9 | 0.16 | 7.6 | | 03-27-18 | 0.6 | 0.19 | 7.6 |
| | 01-02-18 | 0.7 | 0.18 | 7.6 | | 02-06-18 | 0.6 | 0.16 | 7.6 | | 03-06-18 | 0.7 | 0.17 | 7.6 |
| Airport Wastewater Treatment Plant | 01-09-18 | 0.6 | 0.23 | 7.5 | Airport Wastewater Treatment Plant | 02-13-18 | 0.6 | 0.19 | 7.6 | Airport Wastewater Treatment Plant | 03-13-18 | 0.2 | 0.19 | 7.6 |
| | 01-16-18 | 0.6 | 0.31 | 8.2 | | 02-20-18 | 0.8 | 0.25 | 7.6 | | 03-20-18 | 0.6 | 0.17 | 7.6 |
| | 01-23-18 | 0.6 | 0.22 | 7.7 | | 02-27-18 | 0.2 | 0.54 | 7.7 | | 03-27-18 | 0.7 | 0.17 | 7.7 |
| | 01-30-18 | 0.7 | 0.13 | | | | | | | | 03-28-18 | 0.6 | 0.18 | 7.6 |
| | 01-02-18 | 0.7 | 0.17 | 7.8 | | 02-06-18 | 0.8 | 0.17 | 7.6 | | 03-06-18 | 0.3 | 0.12 | 8.8 |
| Public Works Yard | 01-09-18 | 0.9 | 0.22 | 7.4 | Public Works Yard | 02-13-18 | 1.0 | 0.13 | 7.5 | Public Works Yard | 03-13-18 | 0.5 | 0.15 | 7.8 |
| | 01-16-18 | 0.9 | 0.14 | 7.4 | | 02-20-18 | 0.8 | 0.24 | 7.7 | | 03-20-18 | 0.9 | 0.15 | 7.6 |
| | 01-23-18 | 0.6 | 0.28 | 7.9 | | 02-27-18 | 0.3 | 0.19 | 8.1 | | 03-27-18 | 0.9 | 0.15 | 7.7 |
| | 01-30-18 | 0.6 | 0.13 | | | | | | | | | | | |
| | 01-02-18 | 0.3 | 0.42 | 7.9 | | 02-06-18 | 0.3 | 0.20 | 8.2 | | 03-06-18 | 0.3 | 0.29 | 8.0 |
| Eagleview School | 01-09-18 | 0.3 | 0.27 | 8.0 | Eagleview School | 02-13-18 | 0.3 | 0.20 | 8.0 | Eagleview School | 03-13-18 | 0.3 | 0.41 | 7.9 |
| | 01-16-18 | 0.5 | 0.16 | 7.9 | | 02-20-18 | 0.6 | 0.32 | 7.6 | | 3/20/2018* | 0.6 | 0.44 | 7.7 |
| | 01-23-18 | 0.3 | 0.22 | 7.8 | | 02-27-18 | 0.8 | 0.11 | 7.5 | | 03-27-18 | 0.3 | 0.19 | 8.0 |
| | 01-30-18 | 0.3 | 0.17 | | | | | | | | | | | |
| | 01-02-18 | 0.8 | 0.23 | 7.5 | | 02-06-18 | 0.7 | 0.15 | 7.5 | | 03-06-18 | 0.8 | 0.29 | 7.6 |
| Bear Cove Reservoir | 01-09-18 | 0.7 | 0.17 | 7.5 | Bear Cove Reservoir | 02-13-18 | 0.7 | 0.18 | 7.5 | Bear Cove Reservoir | 03-13-18 | 0.8 | 0.14 | 7.5 |
| | 01-16-18 | 0.7 | 0.14 | 7.5 | | 02-20-18 | 0.8 | 0.28 | 7.5 | | 03-20-18 | 0.8 | 0.15 | 7.6 |
| | 01-23-18 | 0.8 | 0.18 | 7.6 | | 02-27-18 | 0.8 | 0.16 | 7.6 | | 03-27-18 | 0.7 | 0.21 | 7.6 |
| | 01-30-18 | 0.7 | 0.11 | | | | | | | | | | | |
| | 01-02-18 | 0.6 | 0.10 | 7.5 | | 02-06-18 | 0.7 | 0.19 | 7.5 | | 03-06-18 | 0.7 | 0.21 | 7.6 |
| Ferry Terminal | 01-09-18 | 0.5 | 0.14 | 7.5 | Ferry Terminal | 02-13-18 | 0.7 | 0.14 | 7.4 | Ferry Terminal | 03-13-18 | 0.7 | 0.22 | 7.5 |
| | 01-16-18 | 0.6 | 0.11 | 7.5 | | 02-20-18 | 0.9 | 0.19 | 7.4 | | 03-20-18 | 0.5 | 0.13 | 7.6 |
| | 01-23-18 | 0.7 | 0.16 | 7.6 | | 02-27-18 | 0.6 | 0.08 | 7.5 | | 03-27-18 | 0.6 | 0.15 | 7.5 |
| | 01-30-18 | 0.6 | 0.15 | | | | | | | | | | | |
| | 01-02-18 | 0.8 | 0.25 | 7.5 | | 02-06-18 | 0.7 | 0.17 | 7.6 | | 03-06-18 | 1.0 | 0.31 | 7.7 |
| Highway 19 PRV | 01-09-18 | 0.9 | 0.22 | 7.4 | Highway 19 PRV | 02-13-18 | 1.0 | 0.19 | 7.4 | Highway 19 PRV | 03-13-18 | 0.8 | 0.15 | 7.5 |
| | 01-16-18 | 0.9 | 0.15 | 7.4 | | 02-20-18 | 1.0 | 0.14 | 7.6 | | 03-20-18 | 0.8 | 0.15 | 7.6 |
| | 01-23-18 | 1.0 | 0.19 | 7.7 | | 02-27-18 | 1.0 | 0.18 | 7.4 | | 03-27-18 | 0.9 | 0.14 | 7.6 |
| | 01-30-18 | 0.8 | 0.12 | | | | | | | | | | | |
| | Average | 0.7 | 0.19 | 7.6 | | Average | 0.7 | 0.20 | 7.6 | | Average | 0.6 | 0.19 | 7.7 |
| Minimum | 0.3 | 0.10 | 7.4 | Minimum | 0.2 | 0.08 | 7.4 | Minimum | 0.2 | 0.11 | 7.4 | | | |
| Maximum | 1.0 | 0.42 | 8.2 | Maximum | 1.0 | 0.54 | 8.2 | Maximum | 1.0 | 0.44 | 8.8 | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

| July | | | | |
|------------------------------------|----------|--------------------|---------------|-----|
| Distribution Sampling | | | | |
| Location | Date | Free Chlorine mg/L | Turbidity NTU | pH |
| Chatham Avenue | 07-03-18 | 0.4 | 0.35 | 7.5 |
| | 07-10-18 | 0.4 | 0.62 | 7.6 |
| | 07-17-18 | 0.5 | 0.33 | 7.7 |
| | 07-24-18 | 0.5 | 0.20 | 7.8 |
| | 07-31-18 | 0.3 | 0.19 | 7.7 |
| Peel Street Liftstation | 07-03-18 | 0.6 | 0.25 | 7.4 |
| | 07-10-18 | 0.8 | 0.65 | 7.5 |
| | 07-17-18 | 0.6 | 0.31 | 7.4 |
| | 07-24-18 | 0.7 | 0.21 | 7.5 |
| | 07-31-18 | 0.5 | 0.20 | 7.4 |
| Airport Wastewater Treatment Plant | 07-03-18 | 0.3 | 0.20 | 7.5 |
| | 07-10-18 | 0.3 | 0.39 | 7.6 |
| | 07-17-18 | 0.2 | 0.30 | 7.5 |
| | 07-24-18 | 0.6 | 0.29 | 7.5 |
| | 07-31-18 | 0.3 | 0.30 | 7.6 |
| Public Works Yard | 07-03-18 | 0.1 | 0.22 | 7.8 |
| | 07-10-18 | 0.3 | 0.20 | 7.9 |
| | 07-17-18 | 0.4 | 0.21 | 7.9 |
| | 07-24-18 | 0.2 | 0.14 | 8.5 |
| | 07-31-18 | 0.4 | 0.14 | 7.9 |
| Eagleview School | 07-03-18 | 0.1 | 0.13 | 8.0 |
| | 07-10-18 | 0.6 | 0.56 | 7.8 |
| | 07-17-18 | 0.5 | 0.81 | 7.8 |
| | 07-24-18 | 0.6 | 0.20 | 7.7 |
| | 07-31-18 | 0.6 | 0.24 | 7.7 |
| Bear Cove Reservoir | 07-03-18 | 0.3 | 0.13 | 7.4 |
| | 07-10-18 | 0.6 | 0.17 | 7.4 |
| | 07-17-18 | 0.8 | 0.19 | 7.4 |
| | 07-24-18 | 0.6 | 0.14 | 7.6 |
| | 07-31-18 | 0.6 | 0.17 | 7.5 |
| Ferry Terminal | 07-03-18 | 0.6 | 0.14 | 7.2 |
| | 07-10-18 | 0.3 | 0.20 | 7.5 |
| | 07-17-18 | 0.2 | 0.16 | 7.3 |
| | 07-24-18 | 0.4 | 0.15 | 7.5 |
| | 07-31-18 | 0.6 | 0.16 | 7.4 |
| Highway 19 PRV | 07-03-18 | 0.8 | 0.13 | 7.4 |
| | 07-10-18 | 0.8 | 0.15 | 7.4 |
| | 07-17-18 | 0.9 | 0.21 | 7.4 |
| | 07-24-18 | 0.9 | 0.21 | 7.5 |
| | 07-31-18 | 0.8 | 0.25 | 7.4 |
| Average | | 0.5 | 0.26 | 7.6 |
| Minimum | | 0.1 | 0.81 | 7.2 |
| Maximum | | 0.9 | 0.81 | 8.5 |

| October | | | | |
|------------------------------------|----------|--------------------|---------------|-----|
| Distribution Sampling | | | | |
| Location | Date | Free Chlorine mg/L | Turbidity NTU | pH |
| Chatham Avenue | 10-02-18 | 0.2 | 0.14 | 7.4 |
| | 10-09-18 | 0.2 | 0.15 | 7.5 |
| | 10-16-18 | 0.4 | 0.19 | 7.5 |
| | 10-22-18 | 0.2 | 0.16 | 7.6 |
| | 10-30-18 | 0.4 | 0.13 | 7.8 |
| Peel Street Liftstation | 10-02-18 | 0.4 | 0.14 | 7.3 |
| | 10-09-18 | 0.5 | 0.15 | 7.4 |
| | 10-16-18 | 0.8 | 0.19 | 7.3 |
| | 10-22-18 | 0.7 | 0.12 | 7.4 |
| | 10-30-18 | 0.6 | 0.13 | 7.6 |
| Airport Wastewater Treatment Plant | 10-02-18 | 0.4 | 0.14 | 7.6 |
| | 10-09-18 | 0.3 | 0.14 | 7.3 |
| | 10-16-18 | 0.8 | 0.20 | 7.6 |
| | 10-22-18 | 0.5 | 0.13 | 7.4 |
| | 10-30-18 | 0.4 | 0.26 | 7.6 |
| Public Works Yard | 10-02-18 | 0.3 | 0.13 | 7.9 |
| | 10-09-18 | 0.9 | 0.12 | 7.4 |
| | 10-16-18 | 0.2 | 0.21 | 7.8 |
| | 10-22-18 | 0.2 | 0.10 | 7.9 |
| | 10-30-18 | 0.5 | 0.12 | 7.8 |
| Eagleview School | 10-02-18 | 0.3 | 0.19 | 7.8 |
| | 10-09-18 | 0.3 | 0.22 | 8.0 |
| | 10-16-18 | 0.2 | 0.19 | 7.7 |
| | 10-22-18 | 0.2 | 0.19 | 8.1 |
| | 10-30-18 | 0.3 | 0.12 | 7.8 |
| Bear Cove Reservoir | 10-02-18 | 0.4 | 0.14 | 7.4 |
| | 10-09-18 | 0.4 | 0.12 | 7.6 |
| | 10-16-18 | 0.6 | 0.12 | 7.5 |
| | 10-22-18 | 0.7 | 0.11 | 7.4 |
| | 10-30-18 | 0.5 | 0.15 | 7.6 |
| Ferry Terminal | 10-02-18 | 0.3 | 0.19 | 7.4 |
| | 10-09-18 | 0.4 | 0.13 | 7.4 |
| | 10-16-18 | 0.4 | 0.14 | 7.4 |
| | 10-22-18 | 0.4 | 0.15 | 7.4 |
| | 10-30-18 | 0.3 | 0.15 | 7.6 |
| Highway 19 PRV | 10-02-18 | 0.7 | 0.13 | 7.4 |
| | 10-09-18 | 0.8 | 0.13 | 7.4 |
| | 10-16-18 | 0.9 | 0.21 | 7.3 |
| | 10-22-18 | 0.8 | 0.19 | 7.5 |
| | 10-30-18 | 0.7 | 0.13 | 7.5 |
| Average | | 0.4 | 0.10 | 7.6 |
| Minimum | | 0.2 | 0.26 | 7.3 |
| Maximum | | 0.9 | 0.26 | 8.1 |

| August | | | | |
|------------------------------------|----------|--------------------|---------------|-----|
| Distribution Sampling | | | | |
| Location | Date | Free Chlorine mg/L | Turbidity NTU | pH |
| Chatham Avenue | 08-07-18 | 0.3 | 0.14 | 7.8 |
| | 08-14-18 | 0.2 | 0.18 | 7.9 |
| | 08-21-18 | 0.3 | 0.17 | 7.7 |
| | 08-28-18 | 0.6 | 0.15 | 7.8 |
| | | | | |
| Peel Street Liftstation | 08-07-18 | 0.7 | 0.38 | 7.4 |
| | 08-14-18 | 0.7 | 0.18 | 7.2 |
| | 08-21-18 | 0.7 | 0.21 | 7.5 |
| | 08-28-18 | 0.7 | 0.15 | 7.8 |
| | | | | |
| Airport Wastewater Treatment Plant | 08-07-18 | 0.4 | 0.39 | 7.6 |
| | 08-14-18 | 0.3 | 0.19 | 7.7 |
| | 08-21-18 | 0.3 | 0.25 | 7.8 |
| | 08-28-18 | 0.6 | 0.24 | 7.7 |
| | | | | |
| Public Works Yard | 08-07-18 | 0.1 | 0.16 | 8.1 |
| | 08-14-18 | 0.4 | 0.17 | 7.8 |
| | 08-21-18 | 0.6 | 0.21 | 7.9 |
| | 08-28-18 | 0.2 | 0.13 | 8.0 |
| | | | | |
| Eagleview School | 08-07-18 | 0.6 | 0.58 | 7.8 |
| | 08-14-18 | 0.7 | 0.18 | 7.3 |
| | 08-21-18 | 0.6 | 0.19 | 7.0 |
| | 08-28-18 | 0.6 | 0.19 | 7.6 |
| | | | | |
| Bear Cove Reservoir | 08-07-18 | 0.6 | 0.14 | 7.6 |
| | 08-14-18 | 0.7 | 0.18 | 7.5 |
| | 08-21-18 | 0.6 | 0.17 | 7.7 |
| | 08-28-18 | 0.6 | 0.17 | 7.6 |
| | | | | |
| Ferry Terminal | 08-07-18 | 0.5 | 0.15 | 7.5 |
| | 08-14-18 | 0.8 | 0.24 | 7.2 |
| | 08-21-18 | 0.7 | 0.12 | 7.8 |
| | 08-28-18 | 0.4 | 0.19 | 7.4 |
| | | | | |
| Highway 19 PRV | 08-07-18 | 0.9 | 0.18 | 7.5 |
| | 08-14-18 | 0.9 | 0.12 | 7.3 |
| | 08-21-18 | 0.8 | 0.14 | 7.5 |
| | 08-28-18 | 0.9 | 0.10 | 7.5 |
| | | | | |
| Average | | 0.6 | 0.20 | 7.6 |
| Minimum | | 0.1 | 0.10 | 7.0 |
| Maximum | | 0.9 | 0.58 | 8.1 |

| November | | | | |
|------------------------------------|----------|--------------------|---------------|-----|
| Distribution Sampling | | | | |
| Location | Date | Free Chlorine mg/L | Turbidity NTU | pH |
| Chatham Avenue | 11-06-18 | 0.2 | 0.17 | 7.7 |
| | 11-13-18 | 0.3 | 0.16 | 7.7 |
| | 11-20-18 | 0.4 | 0.17 | 7.6 |
| | 11-27-18 | 0.4 | 0.16 | 7.7 |
| | | | | |
| Peel Street Liftstation | 11-06-18 | 0.6 | 0.13 | 7.5 |
| | 11-13-18 | 0.8 | 0.13 | 7.8 |
| | 11-20-18 | 0.7 | 0.22 | 7.5 |
| | 11-27-18 | 0.9 | 0.18 | 7.7 |
| | | | | |
| Airport Wastewater Treatment Plant | 11-06-18 | 0.6 | 0.17 | 7.5 |
| | 11-13-18 | 0.6 | 0.14 | 7.5 |
| | 11-20-18 | 0.6 | 0.30 | 7.6 |
| | 11-27-18 | 0.7 | 0.17 | 7.6 |
| | | | | |
| Public Works Yard | 11-06-18 | 0.8 | 0.14 | 7.4 |
| | 11-13-18 | 0.6 | 0.15 | 7.6 |
| | 11-20-18 | 0.6 | 0.13 | 7.7 |
| | 11-27-18 | 0.7 | 0.28 | 7.8 |
| | | | | |
| Eagleview School | 11-06-18 | 0.2 | 0.21 | 7.8 |
| | 11-13-18 | 0.3 | 0.21 | 7.9 |
| | 11-20-18 | 0.3 | 0.23 | 7.9 |
| | 11-27-18 | 0.4 | 0.22 | 7.9 |
| | | | | |
| Bear Cove Reservoir | 11-06-18 | 0.2 | 0.12 | 7.6 |
| | 11-13-18 | 0.4 | 0.14 | 7.6 |
| | 11-20-18 | 0.5 | 0.18 | 7.5 |
| | 11-27-18 | 0.8 | 0.14 | 7.6 |
| | | | | |
| Ferry Terminal | 11-06-18 | 0.3 | 0.13 | 7.6 |
| | 11-13-18 | 0.3 | 0.13 | 7.5 |
| | 11-20-18 | 0.7 | 0.16 | 7.4 |
| | 11-27-18 | 0.6 | 0.25 | 7.5 |
| | | | | |
| Highway 19 PRV | 11-06-18 | 0.9 | 0.13 | 7.5 |
| | 11-13-18 | 0.8 | 0.17 | 7.5 |
| | 11-20-18 | 0.8 | 0.15 | 7.5 |
| | 11-27-18 | 1.1 | 0.38 | 7.7 |
| | | | | |
| Average | | 0.6 | 0.18 | 7.6 |
| Minimum | | 0.2 | 0.12 | 7.4 |
| Maximum | | 1.1 | 0.38 | 7.9 |

| September | | | | |
|------------------------------------|----------|--------------------|---------------|-----|
| Distribution Sampling | | | | |
| Location | Date | Free Chlorine mg/L | Turbidity NTU | pH |
| Chatham Avenue | 09-04-18 | 0.2 | 0.13 | 7.8 |
| | 09-11-18 | 0.2 | 0.14 | 8.3 |
| | 09-18-18 | 0.2 | 0.45 | 7.8 |
| | 09-25-18 | 0.2 | 0.16 | 7.8 |
| | | | | |
| Peel Street Liftstation | 09-04-18 | 0.8 | 0.13 | 7.6 |
| | 09-11-18 | 0.2 | 0.17 | 7.4 |
| | 09-18-18 | 0.6 | 0.14 | 7.4 |
| | 09-25-18 | 0.6 | 0.14 | 7.5 |
| | | | | |
| Airport Wastewater Treatment Plant | 09-04-18 | 0.5 | 0.13 | 7.6 |
| | 09-11-18 | 0.2 | 0.17 | 7.5 |
| | 09-19-18 | 0.3 | 0.14 | 7.4 |
| | 09-25-18 | 0.4 | 0.13 | 7.4 |
| | | | | |
| Public Works Yard | 09-04-18 | 0.3 | 0.17 | 7.9 |
| | 09-11-18 | 0.2 | 0.15 | 8.0 |
| | 09-18-18 | 0.5 | 0.12 | 7.6 |
| | 09-25-18 | 0.7 | 0.13 | 7.4 |
| | | | | |
| Eagleview School | 09-04-18 | 0.4 | 0.25 | 7.9 |
| | 09-11-18 | 0.2 | 0.17 | 7.5 |
| | 09-18-18 | 0.2 | 0.12 | 7.9 |
| | 09-25-18 | 0.3 | 0.13 | 7.8 |
| | | | | |
| Bear Cove Reservoir | 09-04-18 | 0.6 | 0.13 | 7.6 |
| | 09-11-18 | 0.5 | 0.15 | 7.4 |
| | 09-18-18 | 0.4 | 0.13 | 7.5 |
| | 09-25-18 | 0.4 | 0.14 | 7.4 |
| | | | | |
| Ferry Terminal | 09-04-18 | 0.4 | 0.14 | 7.6 |
| | 09-11-18 | 0.4 | 0.25 | 7.3 |
| | 09-18-18 | 0.3 | 0.20 | 7.6 |
| | 09-25-18 | 0.3 | 0.11 | 7.4 |
| | | | | |
| Highway 19 PRV | 09-04-18 | 0.4 | 0.15 | 7.6 |
| | 09-11-18 | 0.7 | 0.24 | 7.3 |
| | 09-18-18 | 0.7 | 0.14 | 7.4 |
| | 09-25-18 | 0.6 | 0.14 | 7.4 |
| | | | | |
| Average | | 0.4 | 0.16 | 7.6 |
| Minimum | | 0.2 | 0.11 | 7.3 |
| Maximum | | 0.8 | 0.45 | 8.3 |

| December | | | | |
|------------------------------------|----------|--------------------|---------------|-----|
| Distribution Sampling | | | | |
| Location | Date | Free Chlorine mg/L | Turbidity NTU | pH |
| Chatham Avenue | 12-11-18 | 0.3 | 0.15 | 7.6 |
| | 12-18-18 | 0.6 | 0.31 | 7.9 |
| | 12-24-18 | 0.5 | 0.24 | 7.5 |
| | 12-31-18 | 0.6 | 0.13 | 7.7 |
| Peel Street Liftstation | 12-04-18 | 0.7 | 0.12 | 7.5 |
| | 12-11-18 | 0.6 | 0.20 | 7.4 |
| | 12-18-18 | 0.7 | 0.37 | 7.9 |
| | 12-24-18 | 0.8 | 0.27 | 7.5 |
| Airport Wastewater Treatment Plant | 12-24-18 | 1.0 | 0.13 | 7.4 |
| | 12-04-18 | 0.4 | 0.18 | 7.7 |
| | 12-11-18 | 0.5 | 0.25 | 7.6 |
| | 12-18-18 | 0.7 | 0.38 | 7.9 |
| Public Works Yard | 12-24-18 | 0.8 | 0.24 | 7.6 |
| | 12-31/18 | 0.7 | 0.16 | 7.4 |
| | 12-04-18 | 0.9 | 0.15 | 7.8 |
| | 12-11-18 | 0.7 | 0.15 | 7.5 |
| Eagleview School | 12-18-18 | 0.8 | 0.16 | 7.5 |
| | 12-24-18 | 0.8 | 0.14 | 7.5 |
| | 12-30-18 | 0.9 | 0.13 | 7.6 |
| | 12-04-18 | 0.3 | 0.24 | 7.8 |
| Bear Cove Reservoir | 12-11-18 | 0.3 | 0.20 | 7.9 |
| | 12-18-18 | 0.5 | 0.23 | 8.0 |
| | 12-25-18 | 0.3 | 0.34 | 7.5 |
| | 01-01-19 | 0.3 | 0.39 | 7.4 |
| Ferry Terminal | 12-04-18 | 0.7 | 0.17 | 7.7 |
| | 12-11-18 | 0.6 | 0.14 | 7.5 |
| | 12-18-18 | 0.8 | 0.15 | 7.7 |
| | 12-24-18 | 0.8 | 0.18 | 7.6 |
| Highway 19 PRV | 12-31-18 | 0.8 | 0.17 | 7.4 |
| | 12-04-18 | 0.5 | 0.13 | 7.7 |
| | 12-11-18 | 0.5 | 0.22 | 7.5 |
| | 12-18-18 | 0.7 | 0.23 | 7.6 |
| | 12-24-18 | 0.7 | 0.16 | 7.5 |
| | 12-31-18 | 0.7 | 0.17 | 7.6 |
| | 12-11-18 | 0.9 | 0.14 | 7.4 |
| | 12-18-18 | 0.9 | 0.23 | 7.8 |
| | 12-24-18 | 0.9 | 0.13 | 7.5 |
| | 12-31-18 | 0.6 | 0.17 | 7.5 |
| Average | | 0.6 | 0.21 | 7.6 |
| Minimum | | 0.3 | 0.12 | 7.4 |
| Maximum | | 1.0 | 0.39 | 8.0 |

| January | | | | | | | February | | | | | | |
|--------------------------|-----------------------------|----------------------|-----------------|-----|--------------------------|------------------|--------------------------|-----------------------------|----------------------|-----------------|-----|--------------------------|------------------|
| Bacteriological Sampling | | | | | | | Bacteriological Sampling | | | | | | |
| Sample Date | Sample Location | Free Chlorine (mg/L) | Turbidity (NTU) | pH | Total Coliform CFU/100ml | E.Coli CFU/100ml | Sample Date | Sample Location | Free Chlorine (mg/L) | Turbidity (NTU) | pH | Total Coliform CFU/100ml | E.Coli CFU/100ml |
| 01-16-18 | Hospital | 0.7 | 0.40 | 7.5 | L1 | L1 | 02-20-18 | Hospital | 0.7 | 0.21 | 7.5 | L1 | L1 |
| 01-16-18 | Airport Washroom | 0.5 | 0.22 | 7.6 | L1 | L1 | 02-06-18 | Airport Washroom | 0.5 | 0.19 | 7.6 | L1 | L1 |
| 01-09-18 | Chatham Ave. | 0.7 | 0.22 | 7.6 | L1 | L1 | 02-06-18 | Chatham Ave. | 0.7 | 0.11 | 7.8 | L1 | L1 |
| 01-02-18 | Bear Cove Reservoir | 0.8 | 0.23 | 7.5 | L1 | L1 | 02-13-18 | Bear Cove Reservoir | 0.7 | 0.18 | 7.5 | L1 | L1 |
| 01-02-18 | Highway 19 PRV | 0.8 | 0.25 | 7.5 | L1 | L1 | 02-13-18 | Highway 19 PRV | 1.0 | 0.19 | 7.4 | L1 | L1 |
| 01-16-18 | Pioneer Inn | 0.8 | 0.13 | 7.4 | L1 | L1 | 02-20-18 | Pioneer Inn | 0.8 | 0.15 | 7.5 | L1 | L1 |
| 01-09-18 | Public Works Yard | 0.9 | 0.22 | 7.4 | L1 | L1 | 02-06-18 | Public Works Yard | 0.8 | 0.17 | 7.6 | L1 | L1 |
| 01-09-18 | Glen Lyon Restaurant | 0.5 | 0.22 | 7.4 | L1 | L1 | 02-06-18 | Glen Lyon Restaurant | 0.7 | 0.14 | 7.6 | L1 | L1 |
| 01-09-18 | Airport Inn | 0.7 | 0.18 | 7.4 | L1 | L1 | 02-20-18 | Airport Inn | 0.7 | 0.11 | 7.4 | L1 | L1 |
| 01-02-18 | Peel St Liftstation | 0.8 | 0.13 | 7.5 | L1 | L1 | 02-13-18 | Peel St Liftstation | 0.7 | 0.19 | 7.4 | L1 | L1 |
| 01-16-18 | B.C. Ferry | 0.6 | 0.11 | 7.5 | L1 | L1 | 02-20-18 | B.C. Ferry | 0.9 | 0.19 | 7.4 | L1 | L1 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Sample Date | Sample Location | Free Chlorine (mg/L) | Turbidity (NTU) | pH | Total Coliform CFU/100ml | E.Coli CFU/100ml | Sample Date | Sample Location | Free Chlorine (mg/L) | Turbidity (NTU) | pH | Total Coliform CFU/100ml | E.Coli CFU/100ml |
| 01-02-18 | Tsulquate River (Untreated) | | 0.40 | 6.8 | | | 02-13-18 | Tsulquate River (Untreated) | | 0.51 | 6.7 | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| March | | | | | | | April | | | | | | |
| Bacteriological Sampling | | | | | | | Bacteriological Sampling | | | | | | |
| Sample Date | Sample Location | Free Chlorine (mg/L) | Turbidity (NTU) | pH | Total Coliform CFU/100ml | E.Coli CFU/100ml | Sample Date | Sample Location | Free Chlorine (mg/L) | Turbidity (NTU) | pH | Total Coliform CFU/100ml | E.Coli CFU/100ml |
| 03-27-18 | Hospital | 0.7 | 0.15 | 7.6 | L1 | L1 | 04-17-18 | Hospital | 0.7 | 0.14 | 7.7 | L1 | L1 |
| 03-06-18 | Airport Washroom | 0.5 | 0.18 | 7.8 | L1 | L1 | 04-03-18 | Airport Washroom | 0.3 | 0.20 | 7.7 | L1 | L1 |
| 03-06-18 | Chatham Ave. | 0.8 | 0.30 | 7.4 | L1 | L1 | 04-03-18 | Chatham Ave. | 0.9 | 0.16 | 7.5 | L1 | L1 |
| 03-03-18 | Bear Cove Reservoir | 0.8 | 0.14 | 7.5 | L1 | L1 | 04-10-18 | Bear Cove Reservoir | 0.8 | 0.17 | 7.7 | L1 | L1 |
| 03-03-18 | Highway 19 PRV | 0.8 | 0.15 | 7.5 | L1 | L1 | 04-10-18 | Highway 19 PRV | 0.9 | 0.53 | 7.7 | L1 | L1 |
| 03-27-18 | Pioneer Inn | 0.6 | 0.12 | 7.6 | L1 | L1 | 04-17-18 | Pioneer Inn | 0.8 | 0.15 | 7.5 | L1 | L1 |
| 03-06-18 | Public Works Yard | 0.3 | 0.12 | 8.8 | L1 | L1 | 04-03-18 | Public Works Yard | 1.1 | 0.11 | 7.5 | L1 | L1 |
| 03-06-18 | Glen Lyon Restaurant | 0.7 | 0.13 | 7.5 | L1 | L1 | 04-03-18 | Glen Lyon Restaurant | 0.8 | 0.22 | 7.6 | L1 | L1 |
| 03-27-18 | Airport Inn | 0.7 | 0.14 | 7.6 | L1 | L1 | 04-17-18 | Airport Inn | 0.6 | 0.16 | 7.6 | L1 | L1 |
| 03-03-18 | Peel St Liftstation | 0.7 | 0.14 | 7.4 | L1 | L1 | 04-17-18 | Peel St Liftstation | 0.8 | 0.15 | 7.7 | L1 | L1 |
| 03-27-18 | B.C. Ferry | 0.6 | 0.15 | 7.5 | L1 | L1 | 04-17-18 | B.C. Ferry | 0.6 | 0.12 | 7.6 | L1 | L1 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Sample Date | Sample Location | Free Chlorine (mg/L) | Turbidity (NTU) | pH | Total Coliform CFU/100ml | E.Coli CFU/100ml | Sample Date | Sample Location | Free Chlorine (mg/L) | Turbidity (NTU) | pH | Total Coliform CFU/100ml | E.Coli CFU/100ml |
| 03-03-18 | Tsulquate River (Untreated) | | 0.40 | 6.7 | | | 04-10-18 | Tsulquate River (Untreated) | | 0.97 | 6.8 | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| May | | | | | | | June | | | | | | |
| Bacteriological Sampling | | | | | | | Bacteriological Sampling | | | | | | |
| Sample Date | Sample Location | Free Chlorine (mg/L) | Turbidity (NTU) | pH | Total Coliform CFU/100ml | E.Coli CFU/100ml | Sample Date | Sample Location | Free Chlorine (mg/L) | Turbidity (NTU) | pH | Total Coliform CFU/100ml | E.Coli CFU/100ml |
| 05-15-18 | Hospital | 0.6 | 0.13 | 7.8 | L1 | L1 | 06-05-18 | Hospital | 0.6 | 0.17 | 7.6 | L1 | L1 |
| 05-15-18 | Airport Washroom | 0.3 | 0.19 | 7.8 | L1 | L1 | 06-19-18 | Airport Washroom | 0.4 | 0.46 | 7.6 | L1 | L1 |
| 05-15-18 | Chatham Ave. | 0.4 | 0.15 | 7.9 | L1 | L1 | 06-05-18 | Chatham Ave. | 0.3 | 0.20 | 7.5 | L1 | L1 |
| 05-08-18 | Bear Cove Reservoir | 0.7 | 0.14 | 7.7 | L1 | L1 | 06-12-18 | Bear Cove | 0.7 | 0.58 | 7.6 | L1 | L1 |
| 05-15-18 | Highway 19 PRV | 0.9 | 0.18 | 7.8 | L1 | L1 | 06-19-18 | Highway 19 PRV | 0.7 | 0.17 | 7.5 | L1 | L1 |
| 05-15-18 | Pioneer Inn | 0.6 | 0.20 | 7.7 | L1 | L1 | 06-05-18 | Pioneer Inn | 0.7 | 0.12 | 7.5 | L1 | L1 |
| 05-15-18 | Public Works Yard | 0.2 | 0.14 | 8.8 | L1 | L1 | 06-12-18 | Public Works Yard | 0.5 | 0.28 | 7.8 | L1 | L1 |
| 05-08-18 | Glen Lyon Restaurant | 0.7 | 0.15 | 7.7 | L1 | L1 | 06-12-18 | Glen Lyon Restaurant | 1.0 | 0.52 | 7.6 | L1 | L1 |
| 05-08-18 | Airport Inn | 0.8 | 0.12 | 7.6 | L1 | L1 | 06-05-18 | Airport Inn | 0.6 | 0.18 | 7.5 | L1 | L1 |
| 05-15-18 | Peel St Liftstation | 0.9 | 0.17 | 7.7 | L1 | L1 | 06-12-18 | Peel St Liftstation | 1.0 | 0.51 | 7.6 | L1 | L1 |
| 05-15-18 | B.C. Ferry | 0.5 | 0.17 | 7.4 | L1 | L1 | 06-19-18 | B.C. Ferry | 0.3 | 0.21 | 7.2 | L1 | L1 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Sample Date | Sample Location | Free Chlorine (mg/L) | Turbidity (NTU) | pH | Total Coliform CFU/100ml | E.Coli CFU/100ml | Sample Date | Sample Location | Free Chlorine (mg/L) | Turbidity (NTU) | pH | Total Coliform CFU/100ml | E.Coli CFU/100ml |
| 05-15-18 | Tsulquate River (Untreated) | | 0.39 | 7.2 | | | 06-19-18 | Tsulquate River (Untreated) | | 0.35 | 7.0 | | |

| July | | | | | | | August | | | | | | |
|--------------------------|-----------------------------|----------------------|-----------------|-----|--------------------------|------------------|--------------------------|-----------------------------|----------------------|-----------------|-----|--------------------------|------------------|
| Bacteriological Sampling | | | | | | | Bacteriological Sampling | | | | | | |
| Sample Date | Sample Location | Free Chlorine (mg/L) | Turbidity (NTU) | pH | Total Coliform CFU/100ml | E.Coli CFU/100ml | Sample Date | Sample Location | Free Chlorine (mg/L) | Turbidity (NTU) | pH | Total Coliform CFU/100ml | E.Coli CFU/100ml |
| 07-03-18 | Hospital | 0.5 | 0.21 | 7.3 | L1 | L1 | 08-07-18 | Hospital | 0.6 | 0.13 | 7.5 | L1 | L1 |
| 07-03-18 | Airport Washroom | 0.4 | 0.14 | 7.7 | L1 | L1 | 08-07-18 | Airport Washroom | 0.4 | 0.16 | 7.6 | L1 | L1 |
| 07-17-18 | Chatham Ave. | 0.5 | 0.33 | 7.7 | L1 | L1 | 08-07-18 | Chatham Ave. | 0.3 | 0.14 | 7.8 | L1 | L1 |
| 07-10-18 | Bear Cove Reservoir | 0.6 | 0.17 | 7.4 | L1 | L1 | 08-14-18 | Bear Cove Reservoir | 0.7 | 0.18 | 7.5 | L1 | L1 |
| 07-10-18 | Highway 19 PRV | 0.8 | 0.15 | 7.4 | L1 | L1 | 08-28-18 | Highway 19 PRV | 0.9 | 0.10 | 7.5 | L1 | L1 |
| 07-03-18 | Pioneer Inn | 0.8 | 0.14 | 7.3 | L1 | L1 | 08-07-18 | Pioneer Inn | 0.8 | 0.11 | 7.4 | L1 | L1 |
| 07-17-18 | Public Works Yard | 0.4 | 0.21 | 7.9 | L1 | L1 | 08-28-18 | Public Works Yard | 0.2 | 0.13 | 8.0 | L1 | L1 |
| 07-10-18 | Glen Lyon Restaurant | 0.7 | 0.16 | 7.4 | L1 | L1 | 08-14-18 | Glen Lyon Restaurant | 0.6 | 0.17 | 7.4 | L1 | L1 |
| 07-10-18 | Airport Inn | 0.8 | 0.61 | 7.5 | L1 | L1 | 08-14-18 | Airport Inn | 0.7 | 0.16 | 7.3 | L1 | L1 |
| 07-03-18 | Peel St Liftstation | 0.6 | 0.25 | 7.4 | L1 | L1 | 08-07-18 | Peel St Liftstation | 0.7 | 0.18 | 7.2 | L1 | L1 |
| 07-17-18 | B.C. Ferry | 0.2 | 0.16 | 7.3 | L1 | L1 | 08-28-18 | B.C. Ferry | 0.4 | 0.19 | 7.4 | L1 | L1 |
| | | | | | | | | | | | | | |
| Sample Date | Sample Location | Free Chlorine (mg/L) | Turbidity (NTU) | pH | Total Coliform CFU/100ml | E.Coli CFU/100ml | Sample Date | Sample Location | Free Chlorine (mg/L) | Turbidity (NTU) | pH | Total Coliform CFU/100ml | E.Coli CFU/100ml |
| 07-17-18 | Tsulquate River (Untreated) | | 0.23 | 7.3 | | | 08-28-18 | Tsulquate River (Untreated) | | 0.27 | 7.2 | | |
| | | | | | | | | | | | | | |
| September | | | | | | | October | | | | | | |
| Bacteriological Sampling | | | | | | | Bacteriological Sampling | | | | | | |
| Sample Date | Sample Location | Free Chlorine (mg/L) | Turbidity (NTU) | pH | Total Coliform CFU/100ml | E.Coli CFU/100ml | Sample Date | Sample Location | Free Chlorine (mg/L) | Turbidity (NTU) | pH | Total Coliform CFU/100ml | E.Coli CFU/100ml |
| 09-04-18 | Hospital | 0.5 | 0.14 | 7.8 | L1 | L1 | 10-02-18 | Hospital | 0.3 | 0.15 | 7.4 | <1 | <1 |
| 09-11-18 | Airport Washroom | 0.4 | 0.18 | 7.5 | L1 | L1 | 10-09-18 | Airport Washroom | 0.3 | 0.17 | 7.4 | <1 | <1 |
| 09-04-18 | Chatham Ave. | 0.4 | 0.14 | 7.6 | L1 | L1 | 10-02-18 | Chatham Ave. | 0.2 | 0.14 | 7.4 | <1 | <1 |
| 09-11-18 | Bear Cove Reservoir | 0.5 | 0.15 | 7.4 | L1 | L1 | 10-09-18 | Bear Cove Reservoir | 0.4 | 0.12 | 7.6 | <1 | <1 |
| 09-04-18 | Highway 19 PRV | 0.4 | 0.15 | 7.6 | L1 | L1 | 10-02-18 | Highway 19 PRV | 0.7 | 0.13 | 7.4 | <1 | <1 |
| 09-11-18 | Pioneer Inn | 0.7 | 0.17 | 7.3 | L1 | L1 | 10-09-18 | Pioneer Inn | 0.4 | 0.12 | 7.3 | <1 | <1 |
| 09-11-18 | Public Works Yard | 0.2 | 0.15 | 8.0 | L1 | L1 | 10-09-18 | Public Works Yard | 0.9 | 0.12 | 7.4 | <1 | <1 |
| 09-18-18 | Glen Lyon Restaurant | 0.5 | 0.13 | 7.3 | L1 | L1 | 10-16-18 | Glen Lyon Restaurant | 0.5 | 0.38 | 7.4 | <1 | <1 |
| 09-18-18 | Airport Inn | 0.5 | 0.29 | 7.3 | L1 | L1 | 10-16-18 | Airport Inn | 0.6 | 0.42 | 7.3 | <1 | <1 |
| 09-18-18 | Peel St Liftstation | 0.6 | 0.14 | 7.4 | L1 | L1 | 10-16-18 | Peel St Liftstation | 0.8 | 0.19 | 7.3 | <1 | <1 |
| 09-04-18 | B.C. Ferry | 0.4 | 0.14 | 7.6 | L1 | L1 | 10-02-18 | B.C. Ferry | 0.3 | 0.19 | 7.4 | <1 | <1 |
| | | | | | | | | | | | | | |
| Sample Date | Sample Location | Free Chlorine (mg/L) | Turbidity (NTU) | pH | Total Coliform CFU/100ml | E.Coli CFU/100ml | Sample Date | Sample Location | Free Chlorine (mg/L) | Turbidity (NTU) | pH | Total Coliform CFU/100ml | E.Coli CFU/100ml |
| 09-18-18 | Tsulquate River (Untreated) | | 0.47 | 6.9 | | | 10-16-18 | Tsulquate River (Untreated) | | 0.34 | 6.9 | | |
| | | | | | | | | | | | | | |
| November | | | | | | | December | | | | | | |
| Bacteriological Sampling | | | | | | | Bacteriological Sampling | | | | | | |
| Sample Date | Sample Location | Free Chlorine (mg/L) | Turbidity (NTU) | pH | Total Coliform CFU/100ml | E.Coli CFU/100ml | Sample Date | Sample Location | Free Chlorine (mg/L) | Turbidity (NTU) | pH | Total Coliform CFU/100ml | E.Coli CFU/100ml |
| 11-06-18 | Hospital | 0.5 | 0.13 | 7.6 | <1 | <1 | 12-04-18 | Hospital | 0.6 | 0.24 | 7.7 | <1 | <1 |
| 11-06-18 | Airport Washroom | 0.4 | 0.23 | 7.6 | <1 | <1 | 12-04-18 | Airport Washroom | 0.5 | 0.62 | 7.7 | <1 | <1 |
| 11-06-18 | Chatham Ave. | 0.2 | 0.17 | 7.7 | <1 | <1 | 12-12-18 | Chatham Ave. | 0.6 | 0.31 | 7.9 | <1 | <1 |
| 11-13-18 | Bear Cove Reservoir | 0.4 | 0.14 | 7.6 | <1 | <1 | 12-11-18 | Bear Cove Reservoir | 0.6 | 0.14 | 7.5 | <1 | <1 |
| 11-13-18 | Highway 19 PRV | 0.8 | 0.17 | 7.5 | <1 | <1 | 12-11-18 | Highway 19 PRV | 0.9 | 0.14 | 7.4 | <1 | <1 |
| 11-06-18 | Pioneer Inn | 0.6 | 0.16 | 7.4 | <1 | <1 | 12-04-18 | Pioneer Inn | 0.7 | 0.17 | 7.7 | <1 | <1 |
| 11-13-18 | Public Works Yard | 0.6 | 0.15 | 7.6 | <1 | <1 | 12-12-18 | Public Works Yard | 0.7 | 0.15 | 7.5 | <1 | <1 |
| 11-20-18 | Glen Lyon Restaurant | 0.7 | 0.19 | 7.5 | <1 | <1 | 12-12-18 | Glen Lyon Restaurant | 0.8 | 0.17 | 7.8 | <1 | <1 |
| 11-13-18 | Airport Inn | 0.6 | 0.14 | 7.5 | <1 | <1 | 12-12-18 | Airport Inn | 0.5 | 0.20 | 7.5 | <1 | <1 |
| 11-20-18 | Peel St Liftstation | 0.7 | 0.22 | 7.5 | <1 | <1 | 12-04-18 | Peel St Liftstation | 0.7 | 0.12 | 7.5 | <1 | <1 |
| 11-20-18 | B.C. Ferry | 0.7 | 0.16 | 7.4 | <1 | <1 | 12-12-18 | B.C. Ferry | 0.7 | 0.23 | 7.6 | <1 | <1 |
| | | | | | | | | | | | | | |
| Sample Date | Sample Location | Free Chlorine (mg/L) | Turbidity (NTU) | pH | Total Coliform CFU/100ml | E.Coli CFU/100ml | Sample Date | Sample Location | Free Chlorine (mg/L) | Turbidity (NTU) | pH | Total Coliform CFU/100ml | E.Coli CFU/100ml |
| 11-20-18 | Tsulquate River (Untreated) | | 0.41 | 6.8 | | | 12-12-18 | Tsulquate River (Untreated) | | 1.05 | 6.6 | | |

TRIHALOMETHANE AND HALOACETIC ACID QUARTERLY RESULTS

Exova
#104, 19675-55 A Ave.
Surrey, British Columbia
V3S 8P8, Canada
T: +1 (604) 514-3322
F: +1 (604) 514-3323
E: Surrey@exova.com
W: www.exova.com

Page 1 of 2



Analytical Report

| | | |
|--|--|---|
| Bill To: District of Port Hardy Box 68 Port Hardy, BC, Canada V0N 2P0 Attn: Accounts Payable Sampled By: Justin Reusch Company: District of Port Hardy | Project ID: WP Quarterly Project Name: Project Location: LSD: P.O.: Proj. Acct. code: | Lot ID: 1248505 Control Number: Date Received: Jan 11, 2018 Date Reported: Jan 19, 2018 Report Number: 2256494 |
|--|--|---|

| | | | | | | |
|--------------------------------------|---------------|--------------------|--------------------------------|-------------------------------|---------|-------------------------|
| | | Reference Number | 1248505-1 | 1248505-2 | | |
| | | Sample Date | Jan 10, 2018 | Jan 10, 2018 | | |
| | | Sample Time | 11:30 | 12:00 | | |
| | | Sample Location | | | | |
| | | Sample Description | DPH / WTP Reservoir / 7.0°C | DPH / Chatham Ave. / 7.0°C | | |
| | | Matrix | Water | Water | | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Trihalomethanes Screen - Water | | | | | | |
| Chloroform | | mg/L | 0.025 | 0.037 | | 0.001 |
| Bromodichloromethane | | mg/L | <0.001 | 0.001 | | 0.001 |
| Dibromochloromethane | | mg/L | <0.001 | <0.001 | | 0.001 |
| Bromoform | | mg/L | <0.001 | <0.001 | | 0.001 |
| Total Trihalomethanes | | mg/L | 0.025 | 0.038 | | 0.001 |
| Trihalomethanes - Surrogate Recovery | | | | | | |
| Dibromofluoromethane | EPA Surrogate | % | 105 | 106 | | 50-140 |
| Toluene-d8 | EPA Surrogate | % | 102 | 103 | | 50-140 |
| Bromofluorobenzene | EPA Surrogate | % | 96 | 94 | | 50-140 |
| Haloacetic Acids - Water | | | | | | |
| Monochloroacetic Acid | | µg/L | <2.0 | <2.0 | | 2.0 |
| Monobromoacetic Acid | | µg/L | <2.0 | <2.0 | | 2.0 |
| Dichloroacetic Acid | | µg/L | 11.0 | 13.0 | | 2.0 |
| Bromochloroacetic Acid | | µg/L | <2.0 | <2.0 | | 2.0 |
| Dibromoacetic Acid | | µg/L | <2.0 | <2.0 | | 2.0 |
| Trichloroacetic Acid | | µg/L | 21.3 | 20.0 | | 2.0 |
| Total Haloacetic Acids (HAA6) | | µg/L | 32.3 | 33.0 | | 2.0 |

Approved by:

R. Neumann

Randy Neumann, BSc
Vice President

Data have been validated by Analytical Quality Control and Exova's Integrated Data Validation System (IDVS).
Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process.
Terms and Conditions: <https://www.exova.com/media/1232/exova-canada-inc-standard-conditions-of-contract-short-form.pdf>

Analytical Report

| | | |
|--|--|--|
| Bill To: District of Port Hardy Box 68 Port Hardy, BC, Canada V0N 2P0 Attn: Accounts Payable Sampled By: Company: District of Port Hardy | Project ID: WTP Project Name: Project Location: LSD: P.O.: 2886 Proj. Acct. code: | Lot ID: 1263477 Control Number: Date Received: Apr 6, 2018 Date Reported: Apr 17, 2018 Report Number: 2276116 |
|--|--|--|

| | | Reference Number | 1263477-1 | 1263477-2 | | |
|---|-------|--------------------|--------------------------------|-------------------------------|-------------------------|--|
| | | Sample Date | Apr 05, 2018 | Apr 05, 2018 | | |
| | | Sample Time | NA | NA | | |
| | | Sample Location | | | | |
| | | Sample Description | DPH / WTP Reservoir / 6.9°C | DPH / Chatham Ave. / 6.9°C | | |
| | | Matrix | Water | Water | | |
| Analyte | Units | Results | Results | Results | Nominal Detection Limit | |
| Trihalomethanes Screen - Water | | | | | | |
| Chloroform | mg/L | 0.027 | 0.041 | | 0.001 | |
| Bromodichloromethane | mg/L | 0.001 | 0.002 | | 0.001 | |
| Dibromochloromethane | mg/L | <0.001 | <0.001 | | 0.001 | |
| Bromoform | mg/L | <0.001 | <0.001 | | 0.001 | |
| Total Trihalomethanes | mg/L | 0.028 | 0.043 | | 0.001 | |
| Trihalomethanes - Surrogate Recovery | | | | | | |
| Dibromofluoromethane EPA Surrogate | % | 119 | 117 | | 50-140 | |
| Toluene-d8 EPA Surrogate | % | 97 | 95 | | 50-140 | |
| Bromofluorobenzene EPA Surrogate | % | 101 | 95 | | 50-140 | |
| Haloacetic Acids - Water | | | | | | |
| Monochloroacetic Acid | µg/L | <2.0 | <2.0 | | 2.0 | |
| Monobromoacetic Acid | µg/L | <2.0 | <2.0 | | 2.0 | |
| Dichloroacetic Acid | µg/L | 8.0 | 17.0 | | 2.0 | |
| Bromochloroacetic Acid | µg/L | <2.0 | <2.0 | | 2.0 | |
| Dibromoacetic Acid | µg/L | <2.0 | <2.0 | | 2.0 | |
| Trichloroacetic Acid | µg/L | 17.0 | 34.0 | | 2.0 | |
| Total Haloacetic Acids (HAA6) | µg/L | 25.0 | 51.0 | | 2.0 | |

Analytical Report

| | | |
|--|---|---|
| Bill To: District of Port Hardy Box 68 Port Hardy, BC, Canada V0N 2P0 | Project ID: Project Name: Project Location: LSD: P.O.: Proj. Acct. code: | Lot ID: 1285168 Control Number: Date Received: Jul 17, 2018 Date Reported: Jul 25, 2018 Report Number: 2305813 |
| Attn: Accounts Payable Sampled By: R> Lefort Company: District of Port Hardy | | |

| | | Reference Number | 1285168-1 | 1285168-2 | |
|---|-----------------|--------------------|----------------------------|-------------------------------|-------------------------|
| | | Sample Date | Jul 16, 2018 | Jul 16, 2018 | |
| | | Sample Time | 09:50 | 10:30 | |
| | | Sample Location | | | |
| | | Sample Description | DPH / Reservoir / 5.8°C | DPH / Chatham Ave. / 5.8°C | |
| | | Matrix | Water | Water | |
| Analyte | Units | Results | Results | Results | Nominal Detection Limit |
| Trihalomethanes Screen - Water | | | | | |
| Chloroform | mg/L | 0.039 | 0.053 | | 0.001 |
| Bromodichloromethane | mg/L | 0.003 | 0.003 | | 0.001 |
| Dibromochloromethane | mg/L | <0.001 | <0.001 | | 0.001 |
| Bromoform | mg/L | <0.001 | <0.001 | | 0.001 |
| Total Trihalomethanes | mg/L | 0.042 | 0.056 | | 0.001 |
| Trihalomethanes - Surrogate Recovery | | | | | |
| Dibromofluoromethane | EPA Surrogate % | 113 | 118 | | 50-140 |
| Toluene-d8 | EPA Surrogate % | 98 | 92 | | 50-140 |
| Bromofluorobenzene | EPA Surrogate % | 101 | 101 | | 50-140 |
| Haloacetic Acids - Water | | | | | |
| Monochloroacetic Acid | µg/L | <2.0 | <2.0 | | 2.0 |
| Monobromoacetic Acid | µg/L | <2.0 | <2.0 | | 2.0 |
| Dichloroacetic Acid | µg/L | 16.0 | 20.2 | | 2.0 |
| Bromochloroacetic Acid | µg/L | <2.0 | <2.0 | | 2.0 |
| Dibromoacetic Acid | µg/L | <2.0 | <2.0 | | 2.0 |
| Trichloroacetic Acid | µg/L | 12.5 | 20.8 | | 2.0 |
| Total Haloacetic Acids (HAA6) | µg/L | 28.5 | 41.0 | | 2.0 |

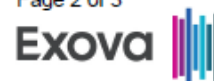
Approved by: 
Mathieu Simoneau
Operations Manager

Data have been validated by Analytical Quality Control and Exova's Integrated Data Validation System (IDVS).
Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process.
Terms and Conditions: <https://www.exova.com/media/1232/exova-canada-inc-standard-conditions-of-contract-short-form.pdf>

Analytical Report

| | | |
|---------------------------------|-------------------|-----------------------------|
| Bill To: District of Port Hardy | Project ID: | Lot ID: 1303153 |
| Box 68 | Project Name: | Control Number: |
| Port Hardy, BC, Canada | Project Location: | Date Received: Oct 4, 2018 |
| VON 2P0 | LSD: | Date Reported: Oct 16, 2018 |
| Attn: Accounts Payable | P.O.: 3354 | Report Number: 2330261 |
| Sampled By: | Proj. Acct. code: | |
| Company: District of Port Hardy | | |

| | Reference Number | 1303153-1 | 1303153-2 | 1303153-3 | | |
|--------------------------------------|--------------------|--------------------------|-------------------------------|------------------------|---------------------------|--------|
| | Sample Date | Oct 03, 2018 | Oct 03, 2018 | Oct 03, 2018 | | |
| | Sample Time | NA | NA | NA | | |
| | Sample Location | | | | | |
| | Sample Description | DPH / Reservoir / 8°C | DPH / Reservoir Dup. / 8°C | DPH / Chatham / 8°C | | |
| | Matrix | Water | Water | Water | | |
| Analyte | Units | Results | Results | Results | Nominal Detection Unit | |
| Trihalomethanes Screen - Water | | | | | | |
| Chloroform | mg/L | 0.026 | 0.024 | 0.051 | 0.001 | |
| Bromodichloromethane | mg/L | 0.001 | <0.001 | 0.002 | 0.001 | |
| Dibromochloromethane | mg/L | <0.001 | <0.001 | <0.001 | 0.001 | |
| Bromoform | mg/L | <0.001 | <0.001 | <0.001 | 0.001 | |
| Total Trihalomethanes | mg/L | 0.027 | 0.024 | 0.053 | 0.001 | |
| Trihalomethanes - Surrogate Recovery | | | | | | |
| Dibromofluoromethane | EPA Surrogate | % | 94 | 99 | 100 | 50-140 |
| Toluene-d8 | EPA Surrogate | % | 92 | 87 | 93 | 50-140 |
| Bromofluorobenzene | EPA Surrogate | % | 112 | 103 | 89 | 50-140 |
| Haloacetic Acids - Water | | | | | | |
| Monochloroacetic Acid | µg/L | <2.0 | <2.0 | <2.0 | 2.0 | |
| Monobromoacetic Acid | µg/L | <2.0 | <2.0 | <2.0 | 2.0 | |
| Dichloroacetic Acid | µg/L | 17.9 | 17.8 | 20.6 | 2.0 | |
| Bromochloroacetic Acid | µg/L | <2.0 | <2.0 | <2.0 | 2.0 | |
| Dibromoacetic Acid | µg/L | <2.0 | <2.0 | <2.0 | 2.0 | |
| Trichloroacetic Acid | µg/L | 21.5 | 21.4 | 43.1 | 2.0 | |
| Total Haloacetic Acids (HAA6) | µg/L | 39.4 | 39.2 | 63.7 | 2.0 | |



Analytical Report

| | | |
|--|--|--|
| Bill To: District of Port Hardy Box 68 Port Hardy, BC, Canada V0N 2P0 Attn: Accounts Payable Sampled By: Company: District of Port Hardy | Project ID: Project Name: Project Location: LSD: P.O.: 3354 Proj. Acct. code: | Lot ID: 1303153 Control Number: Date Received: Oct 4, 2018 Date Reported: Oct 16, 2018 Report Number: 2330261 |
|--|--|--|

| | | | | | |
|--------------------------------------|--------------------|------------------------------|---------|---------|-------------------------|
| | Reference Number | 1303153-4 | | | |
| | Sample Date | Oct 03, 2018 | | | |
| | Sample Time | NA | | | |
| | Sample Location | | | | |
| | Sample Description | DPH / Chatham Dup.. / 8°C | | | |
| | Matrix | Water | | | |
| Analyte | Units | Results | Results | Results | Nominal Detection Limit |
| Trihalomethanes Screen - Water | | | | | |
| Chloroform | mg/L | 0.057 | | | 0.001 |
| Bromodichloromethane | mg/L | 0.002 | | | 0.001 |
| Dibromochloromethane | mg/L | <0.001 | | | 0.001 |
| Bromoform | mg/L | <0.001 | | | 0.001 |
| Total Trihalomethanes | mg/L | 0.059 | | | 0.001 |
| Trihalomethanes - Surrogate Recovery | | | | | |
| Dibromofluoromethane | EPA Surrogate | % | 110 | | 50-140 |
| Toluene-d8 | EPA Surrogate | % | 93 | | 50-140 |
| Bromofluorobenzene | EPA Surrogate | % | 90 | | 50-140 |
| Haloacetic Acids - Water | | | | | |
| Monochloroacetic Acid | µg/L | <2.0 | | | 2.0 |
| Monobromoacetic Acid | µg/L | <2.0 | | | 2.0 |
| Dichloroacetic Acid | µg/L | 20.9 | | | 2.0 |
| Bromochloroacetic Acid | µg/L | <2.0 | | | 2.0 |
| Dibromoacetic Acid | µg/L | <2.0 | | | 2.0 |
| Trichloroacetic Acid | µg/L | 45.5 | | | 2.0 |
| Total Haloacetic Acids (HAA6) | µg/L | 66.4 | | | 2.0 |

Approved by:

Matthew Norman, BSc, PChem
Operations Chemist

Data have been validated by Analytical Quality Control and Exova's Integrated Data Validation System (IDVS).
Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process.
Terms and Conditions: <https://www.exova.com/media/1232/exova-canada-inc-standard-conditions-of-contract-short-form.pdf>

ADDITIONAL SAMPLING RESULTS

External Lab Results after Line Break on Beaver Harbour Road



Success Through Science®

Maxxam Job #: B809043
Report Date: 2018/02/07

DISTRICT OF PORT HARDY
Your P.O. #: 1936

MICROBIOLOGY (WATER)

| | | | | | |
|------------------------|---------------------------------|-----|-----------------------|---------------------|----------|
| Maxxam ID | | | SX6203 | SX6204 | |
| Sampling Date | | | 2018/02/05 09:20 | 2018/02/05 09:40 | |
| COC Number | | | G124325 | G124325 | |
| | UNITS | MAC | FORT RUPERT SCHOOL | CHATHAM AVE | QC Batch |
| Microbiological Param. | | | | | |
| Total Coliforms (QT) | MPN/100mL | 0 | 0 | 0 | 8905104 |
| E. coli (QT) | MPN/100mL | 0 | 0 | 0 | 8905104 |
| No Fill | No Exceedance | | | | |
| Grey | Exceeds 1 criteria policy/level | | | | |
| Black | Exceeds both criteria/levels | | | | |



Success Through Science®

Maxxam Job #: B809746
Report Date: 2018/02/09

DISTRICT OF PORT HARDY
Your P.O. #: 1936

MICROBIOLOGY (DRINKING WATER)

| | | | | | |
|------------------------|---------------------------------|-----|---------------------|---------------------|----------|
| Maxxam ID | | | SX9692 | SX9693 | |
| Sampling Date | | | 2018/02/07 11:15 | 2018/02/07 11:00 | |
| COC Number | | | G124875 | G124875 | |
| | UNITS | MAC | F.R. SCHOOL | CHATHAM | QC Batch |
| Microbiological Param. | | | | | |
| Total Coliforms (QT) | MPN/100mL | 0 | 0 | 0 | 8907370 |
| E. coli (QT) | MPN/100mL | 0 | 0 | 0 | 8907370 |
| No Fill | No Exceedance | | | | |
| Grey | Exceeds 1 criteria policy/level | | | | |
| Black | Exceeds both criteria/levels | | | | |

External Lab Results after Air Valve Repair March 27th, 2018



Success Through Science®

Maxxam Job #: B823298
Report Date: 2018/04/02

DISTRICT OF PORT HARDY
Your P.O. #: 1936

MICROBIOLOGY (DRINKING WATER)

| Maxxam ID | | | TE5982 | TE5983 | TE5984 | TE5985 | TE5986 | |
|------------------------|---------------------------------|-----|---------------------|---------------------|---------------------|---------------------|---------------------|----------|
| Sampling Date | | | 2018/03/29 12:00 | 2018/03/29 12:00 | 2018/03/29 12:00 | 2018/03/29 12:00 | 2018/03/29 12:00 | |
| COC Number | | | 135873 | 135873 | 135873 | 135873 | 135873 | |
| | UNITS | MAC | CHATHAM | PEEL ST | AWWTP | KT K | PIONEER | QC Batch |
| Microbiological Param. | | | | | | | | |
| Total Coliforms | CFU/100mL | 0 | 0 | 0 | 0 | 0 | 0 | 8949448 |
| E. coli | CFU/100mL | 0 | 0 | 0 | 0 | 0 | 0 | 8949448 |
| No Fill | No Exceedance | | | | | | | |
| Grey | Exceeds 1 criteria policy/level | | | | | | | |
| Black | Exceeds both criteria/levels | | | | | | | |

RESERVOIR #1 EXTERNAL LABORATORY WATER QUALITY RESULTS



Success Through Science®

Maxxam Job #: B844045
Report Date: 2018/06/08

DISTRICT OF PORT HARDY
Your P.O. #: 1936

MICROBIOLOGY (WATER)

| Maxxam ID | | | TO7062 | |
|------------------------|---------------------------------|-----|---------------------|----------|
| Sampling Date | | | 2018/06/05 11:30 | |
| COC Number | | | G135941 | |
| | UNITS | MAC | RESERVOIR #1 | QC Batch |
| Microbiological Param. | | | | |
| Total Coliforms (QT) | MPN/100mL | 0 | 0 | 9017171 |
| E. coli (QT) | MPN/100mL | 0 | 0 | 9017171 |
| No Fill | No Exceedance | | | |
| Grey | Exceeds 1 criteria policy/level | | | |
| Black | Exceeds both criteria/levels | | | |

Maxxam Job #: B845195
Report Date: 2018/06/14

DISTRICT OF PORT HARDY
Your P.O. #: 1936

MICROBIOLOGY (DRINKING WATER)

| | | | | |
|------------------------|---------------------------------|-----|---------------------|----------|
| Maxxam ID | | | TP2756 | |
| Sampling Date | | | 2018/06/07 11:50 | |
| COC Number | | | 135942 | |
| | UNITS | MAC | RESERVOIR 1 | QC Batch |
| Microbiological Param. | | | | |
| Total Coliforms | CFU/100mL | 0 | 0 | 9020660 |
| E. coli | CFU/100mL | 0 | 0 | 9020660 |
| No Fill | No Exceedance | | | |
| Grey | Exceeds 1 criteria policy/level | | | |
| Black | Exceeds both criteria/levels | | | |

Note: Tests sent out on June 6th were too long in transit, arrived over temperature and could not be tested.

NEW WATERMAIN DISINFECTION EXTERNAL LABORATORY WATER QUALITY RESULTS



Success Through Science®

Maxxam Job #: B846401
Report Date: 2018/06/15

STANTEC CONSULTING LTD
Client Project #: 111720046
Site Location: PORT HARDY WATERMAIN REPLACEMENT

MICROBIOLOGY (WATER)

| | | | | | | |
|------------------------|---------------------------------|-----|-----------------------------------|-----------------------------------|-----------------------------------|----------|
| Maxxam ID | | | TP9938 | TP9939 | TP9940 | |
| Sampling Date | | | 2018/06/11 14:30 | 2018/06/11 14:22 | 2018/06/11 14:20 | |
| COC Number | | | W1161897 | W1161897 | W1161897 | |
| | UNITS | MAC | 3500 BYNG RD FLUSH OUT - TAP | 3000 BYNG RD FLUSH OUT L- TAP | 3500 HYDRANT F.R. / BYNG - TAP | QC Batch |
| Microbiological Param. | | | | | | |
| Total Coliforms (QT) | MPN/100mL | 0 | 0 | 0 | 0 | 9024174 |
| E. coli (QT) | MPN/100mL | 0 | 0 | 0 | 0 | 9024174 |
| No Fill | No Exceedance | | | | | |
| Grey | Exceeds 1 criteria policy/level | | | | | |
| Black | Exceeds both criteria/levels | | | | | |
| Maxxam ID | | | TP9941 | TP9942 | TP9948 | |
| Sampling Date | | | 2018/06/11 14:25 | 2018/06/11 14:13 | 2018/06/11 14:10 | |
| COC Number | | | W1161897 | W1161897 | W116898 | |
| | UNITS | MAC | FORT RUPERT SOURCE - TAP | 3000 F.R. RES. FLUSH OUT - TAP | 3500 F.R. RES FLUSH OUT - TAP | QC Batch |
| Microbiological Param. | | | | | | |
| Total Coliforms (QT) | MPN/100mL | 0 | 0 | 0 | 0 | 9024174 |
| E. coli (QT) | MPN/100mL | 0 | 0 | 0 | 0 | 9024174 |
| No Fill | No Exceedance | | | | | |
| Grey | Exceeds 1 criteria policy/level | | | | | |
| Black | Exceeds both criteria/levels | | | | | |
| Maxxam ID | | | TP9949 | TP9950 | TP9951 | |
| Sampling Date | | | 2018/06/11 18:35 | 2018/06/11 18:27 | 2018/06/11 18:26 | |
| COC Number | | | W116898 | W116898 | W116898 | |
| | UNITS | MAC | BEAVER H. BYNG FLUSH OUT - TAP | BEAVER H. PEEL - TAP | BEAVER H. TSAKIS - TAP | QC Batch |
| Microbiological Param. | | | | | | |
| Total Coliforms (QT) | MPN/100mL | 0 | 0 | 0 | 0 | 9024174 |
| E. coli (QT) | MPN/100mL | 0 | 0 | 0 | 0 | 9024174 |
| No Fill | No Exceedance | | | | | |
| Grey | Exceeds 1 criteria policy/level | | | | | |
| Black | Exceeds both criteria/levels | | | | | |

Maxxam Job #: B846401
Report Date: 2018/06/15

STANTEC CONSULTING LTD
Client Project #: 111720046
Site Location: PORT HARDY WATERMAIN REPLACEMENT

MICROBIOLOGY (WATER)

| Maxxam ID | | | TP9952 | TP9953 | TP9954 | |
|------------------------|---------------------------------|-----|--|----------------------------|---------------------------|----------|
| Sampling Date | | | 2018/06/11 18:21 | 2018/06/11 18:41 | 2018/06/11 18:40 | |
| COC Number | | | WI16898 | WI16910 | WI16910 | |
| | UNITS | MAC | BEAVER H. N. LIMIT FLUSH OUT - TAP | BEAVER H SE LIMIT - TAP | BEAVER H. SOURCE - TAP | QC Batch |
| Microbiological Param. | | | | | | |
| Total Coliforms (QT) | MPN/100mL | 0 | 0 | 0 | 0 | 9024174 |
| E. coli (QT) | MPN/100mL | 0 | 0 | 0 | 0 | 9024174 |
| No Fill | No Exceedance | | | | | |
| Grey | Exceeds 1 criteria policy/level | | | | | |
| Black | Exceeds both criteria/levels | | | | | |

Maxxam Job #: B846409
Report Date: 2018/06/15

STANTEC CONSULTING LTD
Client Project #: 111720046
Site Location: PORT HARDY WATERMAIN REPLACEMENT

MICROBIOLOGY (WATER)

| | | | | | | |
|------------------------|---------------------------------|-----|----------------------------------|----------------------------------|--|----------|
| Maxxam ID | | | TP9970 | TP9971 | TP9972 | |
| Sampling Date | | | 2018/06/12 13:11 | 2018/06/12 13:01 | 2018/06/12 12:57 | |
| COC Number | | | WI16899 | WI16899 | WI16899 | |
| | UNITS | MAC | 3500 BYNG RD FLUSH OUT - TAP | 3000 BYNG RD FLUSH OUT - TAP | 3500 HYDRANT F.R. / BYNG - TAP | QC Batch |
| Microbiological Param. | | | | | | |
| Total Coliforms (QT) | MPN/100mL | 0 | 0 | 0 | 0 | 9024174 |
| E. coli (QT) | MPN/100mL | 0 | 0 | 0 | 0 | 9024174 |
| No Fill | No Exceedance | | | | | |
| Grey | Exceeds 1 criteria policy/level | | | | | |
| Black | Exceeds both criteria/levels | | | | | |
| Maxxam ID | | | TP9973 | TP9974 | TP9980 | |
| Sampling Date | | | 2018/06/12 12:48 | 2018/06/12 12:50 | 2018/06/12 13:35 | |
| COC Number | | | WI16899 | WI16899 | WI16900 | |
| | UNITS | MAC | 3000 F.R. RES FLUSH OUT - TAP | 3500 F.R. RES FLUSH OUT - TAP | BEAVER H. BYNG FLUSH OUT - TAP | QC Batch |
| Microbiological Param. | | | | | | |
| Total Coliforms (QT) | MPN/100mL | 0 | 0 | 0 | 0 | 9024174 |
| E. coli (QT) | MPN/100mL | 0 | 0 | 0 | 0 | 9024174 |
| No Fill | No Exceedance | | | | | |
| Grey | Exceeds 1 criteria policy/level | | | | | |
| Black | Exceeds both criteria/levels | | | | | |
| Maxxam ID | | | TP9981 | TP9982 | TP9983 | |
| Sampling Date | | | 2018/06/12 13:42 | 2018/06/12 13:46 | 2018/06/12 13:52 | |
| COC Number | | | WI16900 | WI16900 | WI16900 | |
| | UNITS | MAC | BEAVER H. PEEL - TAP | BEAVER H. TSAKIS - TAP | BEAVER H. N. LIMIT FLUSH OUT - TAP | QC Batch |
| Microbiological Param. | | | | | | |
| Total Coliforms (QT) | MPN/100mL | 0 | 0 | 0 | 0 | 9024174 |
| E. coli (QT) | MPN/100mL | 0 | 0 | 0 | 0 | 9024174 |
| No Fill | No Exceedance | | | | | |
| Grey | Exceeds 1 criteria policy/level | | | | | |
| Black | Exceeds both criteria/levels | | | | | |

Maxxam Job #: 8846409
Report Date: 2018/06/15

STANTEC CONSULTING LTD
Client Project #: 111720046
Site Location: PORT HARDY WATERMAIN REPLACEMENT

MICROBIOLOGY (WATER)

| | | | | |
|------------------------|---------------------------------|-----|------------------------------|----------|
| Maxxam ID | | | TP9984 | |
| Sampling Date | | | 2018/06/12 13:18 | |
| COC Number | | | WI16900 | |
| | UNITS | MAC | BEAVER H. SE. LIMIT - TAP | QC Batch |
| Microbiological Param. | | | | |
| Total Coliforms (QT) | MPN/100mL | 0 | 0 | 9024174 |
| E. coli (QT) | MPN/100mL | 0 | 0 | 9024174 |
| No Fill | No Exceedance | | | |
| Grey | Exceeds 1 criteria policy/level | | | |
| Black | Exceeds both criteria/levels | | | |

BYNG ROAD AND BEAVER HARBOUR ROAD NEW WATERMAIN CONNECTION - JUNE 21ST



Maxxam Job #: 8850383
Report Date: 2018/06/25

Success Through Science®

DISTRICT OF PORT HARDY
Your P.O. #: 1936

MICROBIOLOGY (WATER)

| | | | | | |
|------------------------|---------------------------------|-----|---------------------|---------------------|----------|
| Maxxam ID | | | TS1658 | TS1659 | |
| Sampling Date | | | 2018/06/22 09:55 | 2018/06/22 10:10 | |
| COC Number | | | G135951 | G135951 | |
| | UNITS | MAC | API | BUDGET | QC Batch |
| Microbiological Param. | | | | | |
| Total Coliforms (QT) | MPN/100mL | 0 | 0 | 0 | 9037335 |
| E. coli (QT) | MPN/100mL | 0 | 0 | 0 | 9037335 |
| No Fill | No Exceedance | | | | |
| Grey | Exceeds 1 criteria policy/level | | | | |
| Black | Exceeds both criteria/levels | | | | |

BEAVER HARBOUR ROAD AND STOREY'S BEACH ROAD NEW WATERMAIN CONNECTION - JUNE 24TH



Maxxam Job #: 8851245
Report Date: 2018/06/27

Success Through Science®

DISTRICT OF PORT HARDY
Your P.O. #: 1936

MICROBIOLOGY (WATER)

| | | | | | |
|------------------------|---------------------------------|-----|---------------------|---------------------|----------|
| Maxxam ID | | | TS6133 | TS6134 | |
| Sampling Date | | | 2018/06/25 09:40 | 2018/06/25 10:00 | |
| COC Number | | | G135962 | G135962 | |
| | UNITS | MAC | BEACH SANI DUMP | CHATHAM AVE. | QC Batch |
| Microbiological Param. | | | | | |
| Total Coliforms (QT) | MPN/100mL | 0 | 0 | 0 | 9041801 |
| E. coli (QT) | MPN/100mL | 0 | 0 | 0 | 9041801 |
| No Fill | No Exceedance | | | | |
| Grey | Exceeds 1 criteria policy/level | | | | |
| Black | Exceeds both criteria/levels | | | | |

Appendix II

• • • • •

Wastewater Treatment Plants & Collection System





District of Port Hardy



Tsulquate Wastewater System Operations Annual Report 2018

Operational Certificate Number ME-00385

PLANT SUMMARY

The Tsulquate Wastewater Treatment Plant (TWWTP), originally built in 1972, services the majority of the population of Port Hardy, and has historically operated under permit PE-385. The discharge from this facility is sent into Hardy Bay. There are eight lift stations located in the TWWTP collection system. The plant underwent a major upgrade in 2007 which included the addition of two sequential batch reactors, a new headworks and ultraviolet disinfection (UV). The permit was also updated into a more stringent Operational Certificate (ME-00385).

The collection system is comprised of seven liftstations feeding into the Tsulquate plant. Of these seven liftstations, two currently have emergency standby generators in the event of a power outage. A tow behind generator is used when needed.

PLANT AND OPERATOR CLASSIFICATION

The Tsulquate Wastewater Treatment plant is a Class III. Operators have met the level of certification of the plants.

| Operator | Title | Certification |
|----------------|----------------------|------------------------------|
| Joe Jewell | Utilities Supervisor | WT IV, WWT II, WD III, WWC I |
| Justin Reusch | Chief Operator | WT III, WD II, WWT II |
| Roland LeFort | Operator | WWT III, WT III |
| Cory Henschke | Operator | WWT I, WD II |
| Robert Cousins | Operator | WWT I, WT I |

OPERATIONS SUMMARY AND HIGHLIGHTS

- The Tsulquate wastewater plant continued to produce effluent within the parameters of the permit
- The annual average daily flow was 2119 m³/day
- The majority of the UV disinfection bulbs were replaced in November and December this year as part of scheduled O&M
- Exterior building electrical plugs were replaced this fall after several had failed at the Tsulquate Plant
- The annual receiving waters monitoring testing was performed in August. Effluent quality was within normal parameters
- An LC50 test was also performed on the effluent with a 100% survival rate
- A Sewer Manhole Survey was conducted by our Utilities group to determine the condition of each manhole and to prioritize where structural maintenance and flushing is needed. In all, over 200 manholes inspections were completed
- A sewage forcemain break was found and repaired on the Hardy Bay. Divers were hired to make repairs
- Three of the sewage liftstations are scheduled to receive permanent standby emergency power generators. Control kiosks that encompass the new transfer switch gear will also be installed. Completion of the project will be early 2019
- Sewer flusher truck training was provided for all operators in November. Operators were able to receive Continuing Education Units (CEUs) for this training
- A sewer flushing program is ongoing with focus on areas with high grease deposits as identified by our Sewer Manhole Survey
- An electrical engineer has been solicited to troubleshoot and prepare a plan to replace some failing electrical equipment at the wastewater treatment plant. This work is planned to be done as a capital project in 2019
- Many power outages have occurred in the fall of 2018. The Tsulquate wastewater treatment plant has an emergency generator capable of running the entire system. Quality of the effluent is not compromised

District of Port Hardy Tsulquate Wastewater Operations Report
Annual Report 2018

LAB DATA

| Tsulquate Wastewater Plant Compliance Testing | | | | | | |
|---|---------------------|-----------------------------------|--|---------------------------|---------------------------------------|---------------------------------------|
| 385 2018 Q4 WQ DATA | | | | | | |
| Month | pH | Total Suspended Solids (TSS) mg/L | Carbonaceous Biochemical Oxygen Demand (CBOD ₅) mg/L | Fecal Coliforms | Flow (m ³) | |
| | Weekly 6.0 - 9.0 | Weekly <= 45 mg/l | Weekly <= 45 mg/l | CFU/100 mL Geomean AVG | Annual Average 2870 m ³ | Maximum 11,200 m ³ /day |
| January | 7.9 | 8 | <5 | | | |
| | 7.7 | 7 | <5 | | | |
| | 8.0 | 9 | <5 | | | |
| | 7.9 | 9 | <5 | | | |
| February | 8.0 | 10 | <5 | 118 | 2282 | 4541 |
| | 7.7 | 4 | <5 | | | |
| | 7.8 | 8 | <5 | | | |
| | 6.6 | 4 | 4 | | | |
| March | 6.8 | 4 | 4 | 46 | 2139 | 3506 |
| | 7.2 | 6 | <5 | | | |
| | 7.8 | 7 | <5 | | | |
| | 7.7 | <4 | <5 | | | |
| April | 7.6 | 5 | <5 | 41 | 1862 | 4007 |
| | 6.9 | <4 | <5 | | | |
| | 7.9 | 6 | <5 | | | |
| | 6.8 | 4 | <5 | | | |
| May | 7.7 | 6 | <5 | 12 | 1972 | 2467 |
| | 6.8 | 12 | <5 | | | |
| | 7.8 | 3 | <5 | | | |
| | 7.8 | 7 | <5 | | | |
| June | 7.6 | 2 | <5 | | | |
| | 7.7 | 3 | <5 | 9 | 1586 | 2101 |
| | 7.8 | 6 | <5 | | | |
| | 7.6 | 6 | 5 | | | |
| July | 7.8 | 5 | <5 | | | |
| | 7.4 | 5 | <5 | 44 | 1746 | 2066 |
| | 7.6 | 5 | <5 | | | |
| | 7.7 | 4 | <5 | | | |
| August | 7.6 | 4 | <5 | | | |
| | 7.1 | <5 | 8 | | | |
| | 7.4 | <2 | <5 | 13 | 1979 | 2277 |
| | 7.3 | 3 | <5 | | | |
| September | 7.4 | 9 | <5 | | | |
| | 7.4 | 6 | 7 | | | |
| | 7.4 | 3 | <2 | 9 | 1920 | 2443 |
| | 7.5 | 5 | <2 | | | |
| October | 7.2 | 5 | <2 | | | |
| | 7.2 | 5 | <2 | | | |
| | 7.7 | 7 | <2 | 70 | 2162 | 3274 |
| | 7.5 | 10 | <2 | | | |
| November | 7.5 | 12 | 2 | | | |
| | 7.6 | 7 | <5 | | | |
| | 7.2 | 4 | <5 | | | |
| | 7.9 | 13 | <5 | 54 | 2187 | 4428 |
| December | 6.7 | 8 | <6 | | | |
| | 7.6 | 11 | <5 | | | |
| | 7.4 | 6 | <5 | | | |
| | 7.9 | 15 | 8 | 66 | 2665 | 5061 |
| Annual Average | 8.3 | 19 | 12 | | | |
| | 7.8 | 16 | 11 | | | |
| | 7.8 | 16 | <5 | | | |
| | 7.5 | 6 | <5 | 20 | 2922 | 6634 |
| Annual Average Daily Flow | | | | | 2118.5 | m ³ |

* Note: The average daily rate of discharge based on annual average shall be less than 2,870 m3/day

**Note: The maximum authorized rate of discharge is 11,200 m3/day



District of Port Hardy



Airport Wastewater Operations Report Annual Report 2018

Operational Certificate Number ME-105299

PLANT SUMMARY

The Airport Wastewater Treatment Plant (AWWTP), built in 1975, is located adjacent to the Transport Canada Airport facility and operates under permit ME-105299. Its effluent is discharged into the Queen Charlotte Strait. There are three lift stations located in the AWWTP collection system; Fort Rupert School, Fort Rupert Village and Peel Street.

PLANT AND OPERATOR CLASSIFICATION

The Tsulquate Wastewater Treatment plant is a Class III. Operators have met the level of certification of the plants.

| Operator | Title | Certification |
|----------------|----------------------|------------------------------|
| Joe Jewell | Utilities Supervisor | WT IV, WWT II, WD III, WWC I |
| Justin Reusch | Chief Operator | WT III, WD II, WWT II |
| Roland LeFort | Operator | WWT III, WTI II |
| Cory Henschke | Operator | WWT I, WD II |
| Robert Cousins | Operator | WWT I, WT I |

OPERATIONS SUMMARY AND HIGHLIGHTS

- The Airport wastewater plant continued to produce effluent within the parameters of the permit
- The annual average flow was 552 m³/day with a maximum flow of 960 m³ recorded in January during a storm event
- The headworks screening unit has been problematic requiring a complete teardown and repair due to rocks entering the sanitary system. The screen has been functioning well in the last part of the year
- The air header was repaired in many spots this year
- A new emergency generator transfer switch has been installed as part of the 2018 capital project program. The commissioning is now complete
- Receiving waters monitoring and an dive of the outfall pipe were conducted in August as per our the requirements of the Operating Certificate. The receiving waters testing results were found to be within expected parameters
- An LC50 test was also performed in August on the effluent with a 100% survival rate
- The dive found that there was a small leak in the outfall pipe. The District was not made aware of the issue for 10 weeks after the fact. The issue was reported through the Non-Compliance e-mail address to the Ministry of Environment and repairs are being scheduled for 2019

District of Port Hardy Airport Wastewater Operations Report
Annual Report 2018

LAB DATA

| District of Port Hardy Airport Wastewater Plant Compliance Testing | | | | | | | | | | | | | | |
|--|------------------------|-------------------------------------|-----------------|-----------|--|-----------|---|-----------|-------------------------------|-----------|----------------------------|-----------|-----------------------|-----------|
| 105299 - 2018 AnnRpt WQ DATA | | | | | | | | | | | | | | |
| Month | Flow (m ³) | | pH 6.0 - 9.0 | | Total Suspended Solids (TSS) mg/L. ≤ 45 mg/L | | Carbonaceous Biochemical Oxygen Demand (CBOD ₅) mg/L. ≤ 45 mg/L | | Fecal Coliforms CFU/100 mL | | Enterococcus CFU/100 mL | | Total Ammonia mg/L | |
| | Average | Maximum 1254 m ³ /day | First | Duplicate | First | Duplicate | First | Duplicate | First | Duplicate | First | Duplicate | First | Duplicate |
| January | 744 | 960 | 6.6 | 6.6 | 29 | 20 | 12.0 | 5.0 | | | | | 3.80 | 3.80 |
| February | 722 | 848 | 6.6 | 6.7 | 18 | 17 | 9.0 | 5.0 | 21000 | 26000 | 11000 | 10000 | | |
| March | 726 | 911 | 6.8 | 6.6 | 30 | 18 | 9.0 | 4.3 | | | | | | |
| April | 612 | 772 | 7.1 | 7.1 | 17 | 21 | <5 | 6 | 12000 | 8900 | 2300 | 2900 | 0.07 | 0.12 |
| May | 552 | 655 | 6.7 | 6.7 | 15 | 12 | <6 | <6 | | | | | | |
| June | 544 | 688 | 6.8 | 6.7 | 26 | 20 | 6 | 14 | 45000 | 27000 | 1800 | 2900 | | |
| July | 395 | 568 | 7.4 | 7.4 | 7 | 7 | <5 | <5 | | | | | | |
| August | 373 | 432 | 6.8 | 6.7 | 14 | 14 | <5 | <5 | 20000 | 16000 | 1200 | 1100 | <0.0005 | <0.0005 |
| September | 439 | 578 | 7.2 | 7.2 | 16 | 15 | 3.8 | 3.4 | | | | | | |
| October | 515 | 799 | 6.9 | 7.0 | 28 | 28 | 7.8 | 6.5 | 4400 | 3100 | 280 | 220 | | |
| November | 612 | 926 | 6.7 | 6.7 | 15 | 20 | 7 | 6 | | | | | <0.005 | <0.005 |
| December | 650 | 890 | 7.3 | 7.0 | 30 | 29 | 6 | 6 | 3800 | 4700 | 1100 | 1200 | | |

Appendix III

• • • • •

Audited Financial Statements



District of Port Hardy

Consolidated Financial Statements

December 31, 2018



District of Port Hardy

December 31, 2018

CONTENTS

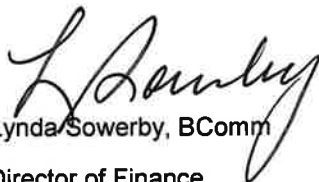
| | <u>Page</u> |
|--|-------------|
| Financial Statements | |
| Management's Responsibility | |
| Independent Auditor's Report | |
| Consolidated Statement of Financial Position | 1 |
| Consolidated Statement of Operations and Accumulated Surplus | 2 |
| Consolidated Statement of Changes in Net Financial Assets | 3 |
| Consolidated Statement of Cash Flows | 4 |
| Notes to the Consolidated Financial Statements | 5 |
| Schedules | 19 |

The accompanying consolidated financial statements are the responsibility of management. To ensure their integrity, objectivity and reliability, the statements have been prepared in accordance with the recommendations of the Public Sector Accounting Board, which are generally accepted accounting principles for British Columbia municipalities and are outlined in Note 1 to the Consolidated Statements. Some amounts on these statements are based on management's best estimates and careful judgment.

Management maintains a system of internal accounting controls to provide reasonable assurance that assets are safeguarded and that transactions are authorized, recorded and reported properly.

Council is responsible for ensuring that management fulfils its responsibilities for financial reporting and internal control and exercises this responsibility through the Council. The Council reviews external Audited Financial Statements annually.

The external auditors, MNP LLP, are appointed by Council to conduct an independent examination in accordance with Canadian auditing standards, and express their opinion on the consolidated financial statements. The external auditors have full and free access to financial records and management of the District of Port Hardy.



Lynda Sowerby, BComm

Director of Finance

Independent Auditor's Report

To the Mayor and Council of the District of Port Hardy:

Opinion

We have audited the consolidated financial statements of the District of Port Hardy (the "District"), which comprise the consolidated statement of financial position as at December 31, 2018, and the consolidated statements of operations and accumulated surplus, changes in net financial assets and cash flows for the year then ended, and notes to the consolidated financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying consolidated financial statements present fairly, in all material respects, the consolidated financial position of the District as at December 31, 2018, and the results of its consolidated operations and its consolidated cash flows for the year then ended in accordance with Canadian public sector accounting standards.

Basis for Opinion

We conducted our audit in accordance with Canadian generally accepted auditing standards. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Consolidated Financial Statements section of our report. We are independent of the District in accordance with the ethical requirements that are relevant to our audit of the consolidated financial statements in Canada, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Responsibilities of Management for the Consolidated Financial Statements

Management is responsible for the preparation and fair presentation of the consolidated financial statements in accordance with Canadian public sector accounting standards, and for such internal control as management determines is necessary to enable the preparation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the consolidated financial statements, management is responsible for assessing the District's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the District or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the District's financial reporting process.

Auditor's Responsibilities for the Audit of the Consolidated Financial Statements

Our objectives are to obtain reasonable assurance about whether the consolidated financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with Canadian generally accepted auditing standards will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these consolidated financial statements.

As part of an audit in accordance with Canadian generally accepted auditing standards, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the consolidated financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the District's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.

- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the District's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the consolidated financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the District to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the consolidated financial statements, including the disclosures, and whether the consolidated financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the District to express an opinion on the consolidated financial statements. We are responsible for the direction, supervision and performance of the group audit. We remain solely responsible for our audit opinion.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

Nanaimo, British Columbia

April 23, 2019

MNP LLP

Chartered Professional Accountants

District of Port Hardy


Consolidated Statement of Financial Position

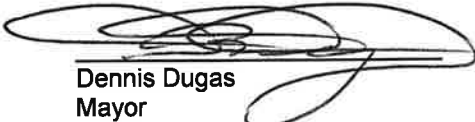
As At December 31, 2018

| | 2018 | 2017 |
|---|----------------------|----------------------|
| Financial Assets | | |
| Cash and cash equivalents (Note 2) | \$ 5,132,160 | \$ 7,394,802 |
| Accounts receivable (Note 3) | 2,445,940 | 1,686,249 |
| Investment in Government business enterprises (Note 15) | 81,497 | 48,340 |
| Tax sale properties | 108,882 | 9,590 |
| Land held for resale | 506 | 506 |
| | <u>7,778,985</u> | <u>9,139,487</u> |
| Financial Liabilities | | |
| Accounts payable and other liabilities (Note 4) | 970,139 | 1,503,045 |
| Deposits | 35,500 | 39,100 |
| Deferred revenue (Note 5) | 514,572 | 882,217 |
| Capital borrowing (Note 17) | 1,295,833 | 1,164,175 |
| | <u>2,816,044</u> | <u>3,588,537</u> |
| Net Financial Assets | <u>4,962,941</u> | <u>5,550,950</u> |
| | | |
| Tangible capital assets (Note 7) | 43,144,918 | 39,149,007 |
| Inventory | 168,945 | 152,644 |
| Prepays | 56,626 | 32,202 |
| | <u>43,370,489</u> | <u>39,333,853</u> |
| Accumulated Surplus (Schedule 3) | <u>\$ 48,333,430</u> | <u>\$ 44,884,803</u> |

Commitments and contingencies (Note 13)

Approved by:


Lynda Sowerby, BComm
Director of Finance


Dennis Dugas
Mayor

The accompanying notes are an integral part of these consolidated financial statements.

District of Port Hardy

Consolidated Statement of Operations and Accumulated Surplus For the Year Ended December 31, 2018

| | 2018 | 2018 Budget (Note 9) | 2017 |
|--|----------------------|----------------------------|----------------------|
| Revenue | | | |
| Taxes | \$ 2,928,702 | \$ 2,909,562 | \$ 2,756,671 |
| Payments in lieu of taxes | 169,921 | 179,128 | 175,980 |
| Sale of services | 3,755,366 | 3,650,491 | 3,573,337 |
| Other revenue | 444,859 | 291,928 | 838,983 |
| Income from investment in Government business enterprises (Note 15) | 33,157 | - | 734,261 |
| Government transfers | 4,251,708 | 13,428,425 | 1,827,596 |
| | <u>11,583,713</u> | <u>20,459,534</u> | <u>9,906,828</u> |
| Expenses | | | |
| General government services | 1,081,539 | 1,149,359 | 1,008,437 |
| Transportation services | 1,837,367 | 2,030,344 | 1,853,171 |
| Protective services | 643,869 | 624,572 | 518,033 |
| Environmental health services | 272,302 | 284,359 | 248,738 |
| Recreation and culture | 1,442,673 | 1,477,986 | 1,461,725 |
| Community development | 194,240 | 202,376 | 177,987 |
| Water | 1,393,514 | 1,521,480 | 1,355,641 |
| Sewer | 1,269,582 | 1,377,900 | 1,338,675 |
| | <u>8,135,086</u> | <u>8,668,376</u> | <u>7,962,407</u> |
| Annual surplus | 3,448,627 | 11,791,158 | 1,944,421 |
| Accumulated surplus, beginning of year | 44,884,803 | 44,884,803 | 42,940,382 |
| Accumulated surplus, end of year | <u>\$ 48,333,430</u> | <u>\$ 56,675,961</u> | <u>\$ 44,884,803</u> |

The accompanying notes are an integral part of these consolidated financial statements.

District of Port Hardy

Consolidated Statement of Changes in Net Financial Assets

As At December 31, 2018

| | 2018 | 2018 Budget (Note 9) | 2017 |
|---|--------------|----------------------------|--------------|
| Annual surplus | \$ 3,448,627 | \$11,791,158 | \$ 1,944,421 |
| Acquisition of tangible capital assets | (6,037,381) | (19,709,700) | (3,350,174) |
| Amortization | 2,041,470 | 1,870,000 | 1,869,979 |
| Gain on disposal of tangible capital assets | - | - | (332,748) |
| Proceeds on sale of tangible capital assets | - | - | 468,218 |
| | (3,995,911) | (17,839,700) | (1,344,725) |
| Use (Acquisition) of supplies inventory | (16,301) | - | 8,388 |
| Use (Acquisition) of prepaid expense | (24,424) | - | 20,645 |
| | (40,725) | - | 29,033 |
| Change in net financial assets | (588,009) | (6,048,542) | 628,729 |
| Net financial assets, beginning of year | 5,550,950 | 5,550,950 | 4,922,221 |
| Net financial assets (debt), end of year | \$ 4,962,941 | \$ (497,592) | \$ 5,550,950 |

The accompanying notes are an integral part of these consolidated financial statements.

District of Port Hardy

Consolidated Statement of Changes in Net Financial Assets As At December 31, 2018

| | 2018 | 2017 |
|---|---------------------|---------------------|
| Cash Provided By (Used In) | | |
| Operating Activities | | |
| Annual surplus | \$ 3,448,627 | \$ 1,944,421 |
| Increase (Decrease) in Non Financial Assets | | |
| Amortization | 2,041,470 | 1,869,979 |
| Gain on disposal of assets | - | (332,748) |
| Change in inventory | (16,301) | 8,388 |
| Change in prepaids | (24,424) | 20,645 |
| | <u>5,449,372</u> | <u>3,510,685</u> |
| (Increase) Decrease in Financial Assets and Liabilities | | |
| Change in accounts receivable | (769,691) | (8,790) |
| Change in investment in Government business enterprises | (33,157) | 39,045 |
| Change in tax sale properties | (99,292) | 9,320 |
| Change in accounts payable | (532,906) | 833,895 |
| Change in tax sale deposits | (3,600) | (3,521) |
| Change in performance deposits and bonds | - | 17,450 |
| Change in deferred revenue | (367,645) | 627,526 |
| Actuarial adjustment on debt | - | (70,516) |
| Cash provided by operating transactions | <u>3,643,081</u> | <u>1,950,348</u> |
| Capital Activities | | |
| Acquisition of tangible capital assets | (6,037,381) | (3,350,174) |
| Proceeds on sale of tangible capital assets | - | 468,218 |
| | <u>(6,037,381)</u> | <u>(2,881,956)</u> |
| Financing Activities | | |
| Capital borrowing repaid | (128,271) | (340,669) |
| Debenture debt repaid | - | (166,582) |
| Capital borrowing draws | 259,929 | - |
| | <u>131,658</u> | <u>865,156</u> |
| Net increase (decrease) in cash and cash equivalents | (2,262,642) | 2,938,294 |
| Cash and cash equivalents at beginning of period | <u>7,394,802</u> | <u>4,456,508</u> |
| Cash and cash equivalents at end of period | <u>\$ 5,132,160</u> | <u>\$ 7,394,802</u> |

The accompanying notes are an integral part of these consolidated financial statements.

District of Port Hardy

Notes to the Consolidated Financial Statements For the Year Ended December 31, 2018

The District of Port Hardy was incorporated in 1966 under the provisions of the British Columbia Municipal Act. Its principal activities are the provision of local government services to the residents of the Municipality. These services include general government administration, bylaw enforcement, planning and land use, building inspection, fire protection, parks and recreation, water distribution and sewer collection, wastewater disposal, garbage and recycling services and road and street maintenance.

1. Significant Accounting Policies:

a) Basis of Presentation

The District of Port Hardy follows accounting principles accepted for British Columbia municipalities and applies these principles consistently. The consolidated financial statements have been prepared in accordance with Canadian public sector accounting standards as prescribed by the Public Sector Accounting Board (PSAB) of CPA Canada. The consolidated financial statements reflect the combined results and activities of the reporting entity which is comprised of the General, Water and Sewer, Operating, Capital and Reserve funds. Inter-fund transactions have been eliminated on consolidation.

b) Revenue Recognition

Sources of revenue are recorded on the accrual basis and include revenue in the period in which the transaction or events occurred. Taxation revenues are recognized at the time of issuing the property tax notices for the fiscal year. Sale of services and user fee revenues are recognized when the service or product is rendered by the District. Development contributions are recorded as contributed tangible capital assets at their fair value on the date of contribution. Amounts received from non-government sources in advance of services being rendered are recorded as deferred revenue until the obligations that led to the collection of funds has been discharged. The District recognizes a government transfer as revenue when the transfer is authorized and all eligibility criteria, if any, have been met. A government transfer with stipulations giving rise to an obligation that meets the definition of a liability is recognized as a liability. In such circumstances, the District recognizes revenue as the liability is settled. Transfers of non-depreciable assets are recognized in revenue when received or receivable. Other revenue is recorded when performance of services is complete, amounts are measurable, and collectibility is reasonably assured. Income from investment in Government business enterprises is recorded using the modified equity method, based on the District's portion of annual earnings from the government business enterprises for the year (see Note 15).

c) Cash and cash equivalents

Cash and cash equivalents comprise cash on hand, demand deposits and short-term highly liquid investments with original maturities of three months or less that are readily convertible into known amounts of cash and which are subject to an insignificant risk of changes in value.

d) Inventory

Inventory is valued at the lower of cost and net realizable value. Cost is determined by the weighted average method. Inventory for resale is recorded at lower of cost or net realizable value as a financial asset. Inventory of supplies is recorded at the lower of cost or net realizable value as a non-financial asset.

District of Port Hardy

Notes to the Consolidated Financial Statements For the Year Ended December 31, 2018

1. Significant Accounting Policies (continued from previous page)

e) Leases

Leases, which transfer substantially all of the benefits and risks incidental to ownership of property are accounted for as leased tangible capital assets. All other leases are accounted for as operating leases and related payments are charged to expenses as incurred.

f) Financial Instruments

The District's financial instruments consist of cash and cash equivalents, accounts receivable, accounts payable and other liabilities, deposits, and capital borrowing. It is management's opinion that the District is not exposed to significant interest, currency or credit risk arising from these financial instruments, except as described in Note 3.

g) Accrued Employee Benefits

Accrued employee benefits include an allowance for sick leave, vacation and severance benefits. These benefits are based on obligations as determined by collective agreements and contractual arrangements. Allowances for sick leave and vacation entitlement are recorded in the year in which they are earned. Severance benefits are recorded in the year in which they are earned. For union employees, 1 week is earned for each year of employment, to a maximum of 10 or 12 weeks depending on the union. Non-union employees earn severance in accordance with individual contracts or the BC labour standards. The severance banks are then multiplied by 10% for senior management and 2% for all other employees to estimate the potential for the District paying out severance.

h) Use of Estimates

The preparation of consolidated financial statements in conformity with Canadian public sector accounting standards requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and the reported amounts of revenues and expenses during the period. Significant areas requiring estimates include the determination of collectability of accounts receivable, accrued payroll liabilities, tangible capital assets and provisions for contingencies. Accounts receivable are stated after evaluation of their collectability. Amortization is based on the estimated useful lives of tangible capital assets. Accrued employee benefits liabilities are estimated based on the anticipated wage rate increases, time value of money and expected average length of employment of District staff. These estimates and assumptions are reviewed periodically and, as adjustments become necessary, they are reported in earnings in the periods in which they become known. Liabilities for contaminated sites are estimated based on the best information available regarding potential contaminated sites that the District of Port Hardy is responsible for. Actual results may differ from estimates.

District of Port Hardy

Notes to the Consolidated Financial Statements For the Year Ended December 31, 2018

1. Significant Accounting Policies (continued from previous page)

i) Tangible Capital Assets

Tangible capital assets are recorded at cost, net of disposals, write-downs and amortization. Tangible capital asset expenses exceeding the thresholds per major category are capitalized. The average useful life is applied straight line to calculate amortization. Amortization is taken at one-half of the calculated amount in the year of acquisition and/or disposal.

| | Average Useful Life |
|-------------------------------|---------------------|
| Land | Indefinite |
| Land Improvements | 10 - 40 years |
| Buildings | 20 - 80 years |
| Equipment | 3 - 25 years |
| Engineering Structures | |
| Roads | 10 - 60 years |
| Water | 8 - 100 years |
| Sewer | 8 - 100 years |

Carrying costs directly attributable to the acquisition, construction or development activity are capitalized to the point in time the asset is substantially complete and ready for use. Contributed tangible capital assets are recorded at their fair value on the date of contribution. Assets under construction are not amortized until the asset is in use.

j) Liability for Contaminated Sites

A liability for remediation of a contaminated site is recognized at the best estimate of the amount required to remediate the contaminated site when contamination exceeding an environmental standard exists, the District of Port Hardy is either directly responsible or accepts responsibility, it is expected that future economic benefits will be given up, and a reasonable estimate of the amount is determinable. The best estimate of the liability includes all costs directly attributable to remediation activities and is reduced by expected net recoveries based on information available as at December 31, 2018.

At each financial reporting date the District of Port Hardy reviews the carrying amount of the liability. Any revisions required to the amount previously recognized is accounted for in the period revisions are made. The District of Port Hardy continues to recognize the liability until it is settled or otherwise extinguished. Disbursements made to settle the liability are deducted from the reported liability when they are made. As at December 31, 2018 the District has not recorded any liability for contaminated sites as no such sites have been identified.

District of Port Hardy

Notes to the Consolidated Financial Statements For the Year Ended December 31, 2018

1. Significant Accounting Policies (continued from previous page)

k) Adoption of New Accounting Standards

PS 2200 Related Party Disclosures

Effective January 1, 2018, the District adopted the recommendations relating to *PS 2200 Related Party Disclosures*, as set out in the CPA Canada public sector accounting standards. Pursuant to the recommendations, the change was applied prospectively, and prior periods have not been restated.

This new section defines a related party and establishes disclosures required for related party transactions. Disclosure of Information about related party transactions and the relationships underlying them is required when they have occurred at a value different from that which would have been arrived at if the parties were unrelated, and they have, or could have, a material financial effect on the financial statements.

There was no material impact on the consolidated financial statements of adopting the new Section.

PS 3420 Inter-entity Transactions

Effective January 1, 2018, the District adopted the recommendations relating to *PS 3420 Inter-entity Transactions*, as set out in the CPA Canada public sector accounting standards. Pursuant to the recommendations, the change was applied prospectively, and prior periods have not been restated.

The new Section establishes standards on how to account for and report transactions between public sector entities that comprise a government's reporting entity from both a provider and recipient perspective. The main features of the new Section are:

- Under a policy of cost allocation, revenues and expenses are recognized on a gross basis.
- Transactions are measured at the carrying amount, except in specific circumstances.
- A recipient may choose to recognize unallocated costs for the provision of goods and services and measure them at the carrying amount, fair value or other amount dictated by policy, accountability structure or budget practice.
- The transfer of an asset or liability for nominal or no consideration is measured by the provider at the carrying amount and by the recipient at the carrying amount or fair value.
- Inter-entity transactions are considered in conjunction with PS 2200 Related Party Disclosures.

There was no material impact on the consolidated financial statements of adopting the new Section.

District of Port Hardy

Notes to the Consolidated Financial Statements For the Year Ended December 31, 2018

1. Significant Accounting Policies (continued from previous page)

k) Adoption of New Accounting Standards

PS 3210 Assets

Effective January 1, 2018, the District adopted the recommendations relating to PS 3210 Assets, as set out in the CPA Canada Public Sector Accounting Handbook. Pursuant to the recommendations, the change was applied prospectively, and prior periods have not been restated.

The new Section provides guidance for applying the definition of assets set out in PS 1000 Financial Statement Concepts. The main features of this standard are as follows:

- Assets are defined as economic resources controlled by a government as a result of past transactions or events and from which future economic benefits are expected to be obtained.
- Economic resources can arise from such events as agreements, contracts, other government's legislation, the government's own legislation, and voluntary contributions.
- The public is often the beneficiary of goods and services provided by a public sector entity. Such assets benefit public sector entities as they assist in achieving the entities primary objective of providing public goods and services.
- A public sector entity's ability to regulate an economic resource does not, in and of itself, constitute control of an asset, if the interest extends only to the regulatory use of the economic resource and does not include the ability to control access to future economic benefits.
- A public sector entity acting as a trustee on behalf of beneficiaries specified in an agreement or statute is merely administering the assets and does not control the assets, as future economic benefits flow to the beneficiaries.
- An economic resource may meet the definition of an asset, but would not be recognized if there is no appropriate basis for measurement and a reasonable estimate cannot be made, or if another Handbook Section prohibits its recognition. Information about assets not recognized should be disclosed in the notes.

There was no material impact on the consolidated financial statements of adopting the new Section.

-

District of Port Hardy

Notes to the Consolidated Financial Statements For the Year Ended December 31, 2018

1. Significant Accounting Policies (continued from previous page)

k) Adoption of New Accounting Standards (continued from previous page)

PS 3320 Contingent Assets

Effective January 1, 2018, the District adopted the recommendations relating to PS 3320 *Contingent Assets*, as set out in the CPA Canada Public Sector Accounting Handbook. Pursuant to the recommendations, the change was applied prospectively, and prior periods have not been restated.

The new Section establishes disclosure standards on contingent assets. The main features of this standard are as follows:

- Contingent assets are possible assets arising from existing conditions or situations involving uncertainty. That uncertainty will ultimately be resolved when one or more future events not wholly within the public sector entity's control occurs or fails to occur. Resolution of the uncertainty will confirm the existence or non-existence of an asset.
- Passing legislation that has retroactive application after the financial statement date cannot create an existing condition or situation at the financial statement date.
- Elected or public sector officials announcing public sector intentions after the financial statement date cannot create an existing condition or situation at the financial statement date.
- Disclosures should include existence, nature, and extent of contingent assets, as well as the reason for any non-disclosure of extent, and the basis for any estimates of extent made.
- When a reasonable estimate can be made, disclosure should include a best estimate and a range of possible amounts (or a narrower range of more likely amounts), unless such a disclosure would have an adverse impact on the outcome.

There was no material impact on the consolidated financial statements of adopting the new Section.

PS 3380 Contractual Rights

Effective January 1, 2018, the District adopted the recommendations relating to PS 3380 *Contractual Rights*, as set out in the CPA Canada Public Sector Accounting Handbook. Pursuant to the recommendations, the change was applied prospectively, and prior periods have not been restated.

The new Section establishes disclosure standards on contractual rights, and does not include contractual rights to exchange assets where revenue does not arise. The main features of this Standard are as follows:

- Contractual rights are rights to economic resources arising from contracts or agreements that will result in both an asset and revenue in the future.
- Until a transaction or event occurs under a contract or agreement, an entity only has a contractual right to an economic resource. Once the entity has received an asset, it no longer has a contractual right.
- Contractual rights are distinct from contingent assets as there is no uncertainty related to the existence of the contractual right.
- Disclosures should include descriptions about nature, extent and timing.

There was no material impact on the consolidated financial statements of adopting the new Section.

District of Port Hardy

Notes to the Consolidated Financial Statements For the Year Ended December 31, 2018

2. Cash and Cash Equivalents

| | 2018 | 2017 |
|-------------|---------------------|---------------------|
| Cash | \$ 389,791 | \$ 331,545 |
| Investments | 4,742,369 | 7,063,257 |
| | <u>\$ 5,132,160</u> | <u>\$ 7,394,802</u> |

The above investments balance includes Municipal Finance Authority money market account and high interest savings account \$4,742,369 (2017 - \$7,063,257), carried at cost, which is also equal to market value.

3. Accounts Receivable

| | 2018 | 2017 |
|--------------------------------------|---------------------|---------------------|
| Property taxes | \$ 973,969 | \$ 661,731 |
| Other Governments | 354,124 | 387,898 |
| Trade and other | 1,489,583 | 997,702 |
| | <u>2,817,676</u> | <u>2,047,331</u> |
| Less allowance for doubtful accounts | <u>(361,736)</u> | <u>(361,082)</u> |
| | <u>\$ 2,445,940</u> | <u>\$ 1,686,249</u> |

Wharf receivables total \$282,676 (2017 - \$276,642). Of this amount \$248,532 (2017 - \$250,651) is 90 days overdue and has been recorded in allowance for doubtful accounts above. A total of \$93,677 (2017 - \$53,187) in taxes receivable has been recorded as doubtful and the remainder of doubtful accounts represents general accounts receivable.

4. Accounts Payable and Other Liabilities

| | 2018 | 2017 |
|----------------------------|-------------------|---------------------|
| Other Governments | \$ 101,248 | \$ 48,909 |
| Accrued wages and benefits | 298,700 | 291,492 |
| Trade and other | 570,191 | 1,162,644 |
| | <u>\$ 970,139</u> | <u>\$ 1,503,045</u> |

5. Deferred Revenue

| | 2018 | 2017 |
|--------------------------|-------------------|-------------------|
| Prepaid taxes | \$ 73,259 | \$ 46,374 |
| Prepaid fees and charges | 54,740 | 52,637 |
| Other deferred revenue | 386,573 | 783,206 |
| | <u>\$ 514,572</u> | <u>\$ 882,217</u> |

District of Port Hardy

Notes to the Consolidated Financial Statements For the Year Ended December 31, 2018

6. Federal Gas Tax Funds

Gas tax transfers are recorded as revenues when received. Unspent funds are included in Operating Funds Surplus (see Schedule 3).

| | 2018 | 2017 |
|---|-------------------|-------------------|
| Opening balance of unspent funds | \$ 470,794 | \$ 422,392 |
| Add: Amount received during the year | 232,222 | 223,926 |
| Interest earned | 11,298 | 4,598 |
| Less: Amount spent on eligible projects | (29,978) | (180,122) |
| Closing balance of unspent funds | \$ 684,336 | \$ 470,794 |

7. Tangible Capital Assets (Schedule 2)

| | 2018 | 2017 |
|--------------------------------|----------------------|----------------------|
| Land and Improvements | \$ 4,633,329 | \$ 4,690,526 |
| Buildings | 4,384,549 | 3,945,626 |
| Furniture and Equipment | 4,246 | 5,789 |
| Vehicles and Machinery | 2,224,324 | 2,270,821 |
| Computer Hardware and Software | 34,949 | 46,634 |
| Engineering Structures | | |
| Roads | 11,800,771 | 12,079,554 |
| Water | 10,661,743 | 6,597,185 |
| Sewer | 9,401,007 | 9,512,872 |
| | \$ 43,144,918 | \$ 39,149,007 |

Tangible capital assets include land under the District's roads, which is disclosed at a nominal amount. Art and historic treasures are displayed at various District facilities and consist of painting, historical photographs, sculptures, carvings and other cultural artifacts. These items have not been included in tangible capital assets due to the inability of estimating future benefits associated with such property.

District of Port Hardy

Notes to the Consolidated Financial Statements For the Year Ended December 31, 2018

8. Pension Liability

The District and its employees contribute to the Municipal Pension Plan, (a jointly trustee pension plan). The board of trustees, representing plan members and employers, is responsible for administering the plan, including investment of assets and administration of benefits. The plan is a multi-employer defined benefit pension plan. Basic pension benefits provided are based on a formula. As at December 31, 2017 the plan has about 197,000 active members and approximately 95,000 retired members. Active members include approximately 39,000 contributors from the Local Governments.

Every three years an actuarial valuation is performed to assess the financial position of the plan and adequacy of plan funding. The actuary determines an appropriate combined employer and member contribution rate to fund the plan. The actuary's calculated contribution rate is based on the entry-age normal cost method, which produces the long-term rate of member and employer contributions sufficient to provide benefits for average future entrants to the plan. This rate may be adjusted for the amortization of any actuarial funding surplus and will be adjusted for the amortization of any unfunded actuarial liability.

The most recent valuation for the Municipal Pension Plan as at December 31, 2015 indicated a \$2.224 billion funding surplus for basic pension benefits on a going concern basis. As a result of the 2015 basic account actuarial valuation surplus and pursuant to the joint trustee agreement, \$1.927 billion was transferred to the rate stabilization account and \$297 million of the surplus ensured the required contribution rates remained unchanged.

The District of Port Hardy paid \$184,316 (2017 - \$178,047) for employer contributions while employees contributed \$163,518 (2017 - \$162,819) to the plan in fiscal 2018.

The next valuation will be as at December 31, 2018, with results available in 2019.

Employers participating in the plan record their pension expense as the amount of employer contributions made during the fiscal year (defined contribution pension plan accounting). This is because the plan records accrued liabilities and accrued assets for the plan in aggregate, resulting in no consistent and reliable basis for allocating the obligation, assets and cost to individual employers participating in the plan.

9. Budget Figures

The budget amounts presented throughout these financial statements are based on the Five Year Financial Plan bylaw adopted by Council on February 14, 2018 adjusted for budget amounts for amortization and tangible capital assets.

| | |
|--|-----------------------------|
| Annual surplus, as adopted February 14, 2018 | \$ - |
| Add: | |
| Acquisition of tangible capital assets | 19,709,700 |
| Debt principal repayments | 202,500 |
| Less: | |
| Debt incurred | (4,539,000) |
| Interfund transfers | (3,582,042) |
| Annual surplus restated | <u><u>\$ 11,791,158</u></u> |

District of Port Hardy

Notes to the Consolidated Financial Statements For the Year Ended December 31, 2018

10. Collections for Other Governments

The District is required to collect taxes on behalf of, and transfer these amounts to, the governments and/or its agencies noted below. These sums are not included in the schedules to these statements.

| | 2018 | 2017 |
|---|---------------------|---------------------|
| School Taxes | \$ 1,306,933 | \$ 1,311,241 |
| Regional District of Mount Waddington | 405,469 | 386,834 |
| Mount Waddington Regional Hospital District | 142,788 | 138,990 |
| BC Assessment Authority | 20,596 | 21,287 |
| Municipal Finance Authority | 90 | 86 |
| Police Tax | 186,198 | 176,659 |
| Vancouver Island Regional Library | 156,216 | 148,500 |
| | <u>\$ 2,218,290</u> | <u>\$ 2,183,597</u> |

11. Trust Funds

The District operates the cemetery and maintains a cemetery perpetual care fund in accordance with the Cremation, Interment and Funeral Services Act. The trust fund assets and liabilities are not included in the consolidated financial statements. At December 31, 2018, the balance of funds held in trust was \$39,747 (2017 - \$38,420).

The District operates the Fisherman's Wharf for the Department of Fisheries and Oceans and acts as project manager for the capital items constructed. The assets and liabilities of the operations are not included in the consolidated financial statements.

12. Employee Benefit Obligations

Full-time permanent employees receive their full sick bank up to 60 days upon retirement or one third upon termination. There are no additional liabilities accrued for these amounts as they are included in the sick leave and vacation liability accounts. Specified officers of the District are entitled to severance benefits. This liability is recorded as the severance benefits are negotiated. The reported liability reflects the likelihood that employees will become eligible for this benefit.

Vacation liability at December 31, 2018 is \$28,070 (2017 - \$31,266).

Sick leave liability at December 31, 2018 is \$136,536 (2017 - \$119,823).

Severance liability at December 31, 2018 is \$36,981 (2017 - \$47,087).

District of Port Hardy

Notes to the Consolidated Financial Statements For the Year Ended December 31, 2018

13. Commitments and Contingencies

a) **Municipal Insurance Association of British Columbia**

The District is a subscribed member of the Municipal Insurance Association of British Columbia as provided by section 3.02 of the Insurance Act of the Province of British Columbia (the Exchange"). The main purpose of the Exchange is to pool the risks of liability so as to lessen the impact upon any subscriber. Under the Reciprocal Insurance Exchange Agreement, the District is assessed a premium and a specific deductible for claims is based on population. The obligation of the District with respect to the Exchange and/or contract and obligation entered into by the Exchange on behalf of its subscribers in connection with the Exchange are in every case several, not joint and several. The District irrevocably and unconditionally undertakes and agrees to indemnify and save harmless the other subscribers against liability losses and costs which the other subscriber may suffer.

b) **Funding Agreement**

The District has entered into a funding agreement with the Union of British Columbia Municipalities under the terms and conditions of the Strategic Priorities Fund. The purpose of the agreement is to award the District up to \$6 million in funding for the construction of the Port Hardy Multiplex - Swimming Pool Replacement. The funds are contingent on the project being completed by December 31, 2020 or the agreement may be terminated, and any costs incurred will be deemed ineligible for the grant funding.

As of December 31, 2018, the District has incurred \$608,386 in expenses for the design and tender of the multiplex project.

The project is currently on hold as the bids received exceeded the project budget. If the District is successful in receiving additional grant funding, the project will proceed in late 2019.

c) **Regional District of Mount Waddington**

The District is responsible, as a member of the Regional District of Mount Waddington, for its portion of any operating deficits or long-term debt related function in which it participates.

District of Port Hardy

Notes to the Consolidated Financial Statements For the Year Ended December 31, 2018

14. Segmented Information

For management reporting purposes the District's operations and activities are organized and reported by Fund. Funds were created for the purpose of recording specific activities to attain certain objectives in accordance with special regulation, restriction or limitations. District services are provided by departments and their activities are reported in the funds. Certain departments that have been separately disclosed in the segmented information on Schedule 1, along with the services they provide, are as follows:

Protection

Protection is comprised of the Volunteer Fire Department, the Emergency Preparedness coordinator, building inspection and bylaw enforcement.

Community Development

The Community Development department provides economic development services. These services consist of downtown revitalization, grant proposals and new business and development.

Recreation and Culture

The Recreation and Culture department provides recreation and leisure services such as fitness and aquatic programs, the library and the museum.

Environmental Health

This service is for the collection and disposal of solid waste and recycling program.

Transportation

The Transportation department delivers the municipal services related to maintenance of the roads, sidewalks, parks, open space, street lighting and storm drains.

General Government

Provides services related to corporate and legislative administration, governance, financial management, human resources and information technology.

Water

The water department is responsible for the water treatment plant and distribution system.

Sewer

The waste water department is responsible for the treatment and collection system for waste water.

For each reported segment, revenues and expenses represent amounts that are directly attributable to the segment and amounts that are allocated on a reasonable basis. The General Revenue Fund reports on municipal services that are funded by taxation. The taxes are apportioned to the fund services based on the net surplus.

District of Port Hardy

Notes to the Consolidated Financial Statements For the Year Ended December 31, 2018

15. Investment in Government Business Enterprises

The investment in the North Island Community Forest Limited Partnership (NICFLP) is reported as a government business partnership and North Island Community Forest Ltd. (NICF LTD) as a government business enterprise. These businesses are accounted for using the modified equity method. Under this method, the government businesses' accounting principles are not adjusted to conform with those of the District and inter-corporate transactions are not eliminated. District of Port Hardy owns a one third share.

As a government business partnership, the NICFLP is required to report under International Financial Reporting Standards (IFRS). In the prior and current year, the NICFLP financial statements were prepared under Canadian Accounting Standards for Private Enterprises (ASPE). Any difference between ASPE and IFRS would likely be insignificant.

| | 2018 | 2017 |
|--|------------------|-------------------|
| Summary of investment in Government Businesses | | |
| NICFLP | \$ 68,890 | \$ 36,065 |
| NICF LTD. | 12,607 | 12,275 |
| | <u>81,497</u> | <u>48,340</u> |
| Summary of results of operations | | |
| NICFLP | 32,826 | 726,918 |
| NICF LTD. | 331 | 7,343 |
| | <u>\$ 33,157</u> | <u>\$ 734,261</u> |

The condensed supplementary financial information of the NICFLP is as follows:

| | 2018 | 2017 |
|-------------------------------|------------------|---------------------|
| Financial Position | | |
| Current and other assets | \$ 286,576 | \$ 283,110 |
| Current and other liabilities | 42,088 | 138,095 |
| Partners' Capital | 244,488 | 145,015 |
| Results of operations | | |
| Revenues | 151,215 | 2,254,124 |
| Expenses | 51,742 | 51,342 |
| Net surplus | <u>\$ 99,473</u> | <u>\$ 2,202,782</u> |

During the year the District received a dividend from the NICFLP of \$NIL (2017 - \$726,918).

16. Comparative Figures

Certain comparative figures have been reclassified to conform with the current year's presentation.

District of Port Hardy

Notes to the Consolidated Financial Statements For the Year Ended December 31, 2018

17. Capital Borrowing

| | Balance, Beginning of Year | Additions | Principal repayments | Balance, end of year |
|-------------------------------|----------------------------------|-------------------|-------------------------|----------------------------|
| 2017 Fire Ladder Truck | \$ 1,060,029 | \$ - | \$ 76,024 | \$ 984,005 |
| 2018 Dodge Dump Truck | 104,146 | - | 20,006 | 84,140 |
| 2019 International Hook Truck | - | 233,153 | 29,304 | 203,849 |
| 2018 Nissan Rogue | - | 26,776 | 2,937 | 23,839 |
| | <u>\$ 1,164,175</u> | <u>\$ 259,929</u> | <u>\$ 128,271</u> | <u>\$ 1,295,833</u> |

Short term financing is secured through the Municipal Finance Authority for capital initiatives approved under loan authorizations. Interest is calculated daily on a variable rate basis at a 0.5% spread on top of the CDOR (Canadian Dealer Offered Rate) rate. In 2018 the rate varied between 1.34 % and 1.94%. At December 31, 2018 the rate was 1.94%. Equipment is financed over a five year period with the exception of the Fire Department Ladder truck purchased in 2017 which is amortized over a twelve year period with a five year term. The residual amount that will need to be re-financed in 2022 is estimated to be \$698,006.

The following represents the principal repayments over the next five years.

| | Equipment Financing |
|------|------------------------|
| 2019 | \$ 145,517 |
| 2020 | 149,488 |
| 2021 | 153,312 |
| 2022 | 156,644 |
| 2023 | 124,069 |
| | <u>\$ 729,030</u> |

18. Subsequent events

Subsequent to December 31, 2018, the District has entered into a contract for the purchase and installation of a refrigeration chiller upgrade at the Don Cruikshank Memorial Arena. The total cost of the contract is \$295,750 and will be completed in 2019.

District of Port Hardy

Consolidated Schedule of Segmented Disclosure

For the Year Ended December 31, 2018

Schedule 1
(Note 14)

| | General government services | | Transportation services | | Protective services | | Environmental health services | | Recreation and culture | |
|---|-----------------------------|---------------------|-------------------------|---------------------|---------------------|---------------------|-------------------------------|------------------|------------------------|-----------------------|
| | 2018 | 2017 | 2018 | 2017 | 2018 | 2017 | 2018 | 2017 | 2018 | 2017 |
| Revenues | | | | | | | | | | |
| Taxes | \$ 2,928,702 | \$ 2,756,671 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Payments in lieu of taxes | 169,921 | 175,980 | - | - | - | - | - | - | - | - |
| Sale of services | - | - | 399,335 | 332,070 | 149,993 | 42,358 | 282,432 | 268,116 | 198,266 | 217,611 |
| Income from investment in Government business enterprises | - | - | - | - | - | - | - | - | - | - |
| Government transfers | 541,231 | 529,376 | 232,222 | 223,926 | 13,234 | - | - | - | 3,500 | 3,000 |
| Actuarial recognized | - | - | - | - | - | - | - | - | - | - |
| Gain on disposal of assets | - | - | - | 332,748 | - | - | - | - | - | - |
| Other revenue | 219,908 | 167,701 | 10,200 | 20,423 | 67,850 | 88,274 | 2,212 | 2,209 | 37,590 | 37,035 |
| | 3,859,762 | 3,629,728 | 641,757 | 909,167 | 231,077 | 130,632 | 284,644 | 270,325 | 239,356 | 257,646 |
| Expenses | | | | | | | | | | |
| Salaries and benefits | 817,794 | 786,996 | 464,737 | 478,558 | 143,144 | 134,480 | 18,554 | 13,646 | 712,983 | 699,436 |
| Goods and services | 193,815 | 153,696 | 373,506 | 458,950 | 219,117 | 172,145 | 39,970 | 31,240 | 342,886 | 350,476 |
| Contracted services | 27,818 | 30,284 | 264,407 | 227,866 | 122,371 | 91,357 | 213,778 | 203,852 | 117,096 | 148,882 |
| Interest Expense | 25,860 | 11,784 | - | - | - | - | - | - | - | - |
| Amortization | 16,252 | 25,677 | 734,717 | 687,797 | 159,237 | 120,051 | - | - | 269,708 | 262,931 |
| | 1,081,539 | 1,008,437 | 1,837,367 | 1,853,171 | 643,869 | 518,033 | 272,302 | 248,738 | 1,442,673 | 1,461,725 |
| Net Surplus (Deficit) | \$ 2,778,223 | \$ 2,621,291 | \$ (1,195,610) | \$ (944,004) | \$ (412,792) | \$ (387,401) | \$ 12,342 | \$ 21,587 | \$ (1,203,317) | \$ (1,204,079) |

The accompanying notes are an integral part of these financial statements.

District of Port Hardy

Consolidated Schedule of Segmented Disclosure

For the Year Ended December 31, 2018

**Schedule 1
(Note 14)**

| | Community development | | Water | | Sewer | | Consolidated Actual | Budget | Consolidated Actual | Budget |
|---|-----------------------|------------|--------------|--------------|-----------|-------------|------------------------|---------------|------------------------|---------------|
| | 2018 | 2017 | 2018 | 2017 | 2018 | 2017 | 2018 | 2018 | 2017 | 2017 |
| Revenues | | | | | | | | | | |
| Taxes | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 2,928,702 | \$ 2,909,562 | \$ 2,756,671 | \$ 2,754,846 |
| Payments in lieu of taxes | - | - | - | - | - | - | 169,921 | 179,128 | 175,980 | 171,519 |
| Sale of services | - | - | 1,461,523 | 1,502,160 | 1,263,817 | 1,211,022 | 3,755,366 | 3,650,491 | 3,573,337 | 3,557,265 |
| Income from investment in Government business enterprises | 33,157 | 734,261 | - | - | - | - | 33,157 | - | 734,261 | - |
| Government transfers | 183,167 | 198,123 | 3,278,354 | 873,171 | - | - | 4,251,708 | 13,428,425 | 1,827,596 | 12,987,000 |
| Actuarial recognized | - | - | - | - | - | 70,516 | - | - | 70,516 | - |
| Gain on disposal of assets | - | - | - | - | - | - | - | - | 332,748 | - |
| Other revenue | 37,105 | 37,213 | 43,392 | 36,872 | 26,602 | 45,992 | 444,859 | 291,928 | 435,719 | 299,501 |
| | 253,429 | 969,597 | 4,783,269 | 2,412,203 | 1,290,419 | 1,327,530 | 11,583,713 | 20,459,534 | 9,906,828 | 19,770,131 |
| Expenses | | | | | | | | | | |
| Salaries and benefits | - | - | 377,350 | 410,006 | 277,473 | 283,267 | 2,812,035 | 3,046,964 | 2,806,389 | 2,928,748 |
| Goods and services | 28,579 | 31,938 | 501,108 | 527,523 | 386,894 | 394,649 | 2,085,875 | 2,431,671 | 2,120,617 | 2,415,466 |
| Contracted services | 165,661 | 146,049 | 83,278 | 53,780 | 171,934 | 163,089 | 1,166,343 | 1,240,740 | 1,065,159 | 1,141,048 |
| Interest expense | - | - | - | - | 3,503 | 88,479 | 29,363 | 79,001 | 100,263 | 169,309 |
| Amortization | - | - | 431,778 | 364,332 | 429,778 | 409,191 | 2,041,470 | 1,870,000 | 1,869,979 | 1,800,000 |
| | 194,240 | 177,987 | 1,393,514 | 1,355,641 | 1,269,582 | 1,338,675 | 8,135,086 | 8,668,376 | 7,962,407 | 8,454,571 |
| Net Surplus (Deficit) | \$ 59,189 | \$ 791,610 | \$ 3,389,755 | \$ 1,056,562 | \$ 20,837 | \$ (11,145) | \$ 3,448,627 | \$ 11,791,158 | \$ 1,944,421 | \$ 11,315,560 |

The accompanying notes are an integral part of these consolidated financial statements.

District of Port Hardy

Consolidated Statement of Tangible Capital Assets For the Year Ended December 31, 2018

Schedule 2

| | Costs | | | | | Accumulated Amortization | | | | | 2018 | 2017 |
|--------------------------------|-----------------|--------------|--------------------------|-------------|-----------------|--------------------------|--------------|---------------------------------------|-----------------|---------------|---------------|------|
| | Add | | Less | | | Add | | Less | | | | |
| | Opening Balance | Additions | Construction In progress | Disposals | Closing Balance | Opening Balance | Amortization | Accumulated Amortization on Disposals | Closing Balance | | | |
| | | | | | | | | | | | | |
| Land and Land Improvements | \$ 6,799,332 | \$ 62,322 | \$ - | \$ - | \$ 6,861,654 | \$ 2,108,806 | \$ 119,519 | \$ - | \$ 2,228,325 | \$ 4,633,329 | \$ 4,690,526 | |
| Buildings | 10,682,641 | 56,073 | 608,386 | - | 11,347,100 | 6,737,015 | 225,536 | - | 6,962,551 | 4,384,549 | 3,945,626 | |
| Furniture and Equipment | 405,068 | - | - | - | 405,068 | 399,279 | 1,543 | - | 400,822 | 4,246 | 5,789 | |
| Vehicles and Machinery | 5,063,918 | 215,490 | - | (234,478) | 5,044,930 | 2,793,097 | 261,987 | (234,478) | 2,820,606 | 2,224,324 | 2,270,821 | |
| Computer Hardware and Software | 223,418 | - | - | - | 223,418 | 176,784 | 11,685 | - | 188,469 | 34,949 | 46,634 | |
| Engineering Structures | | | | | | | | | | | | |
| Roads | 25,365,259 | 280,860 | - | - | 25,646,119 | 13,285,705 | 559,643 | - | 13,845,348 | 11,800,771 | 12,079,554 | |
| Water | 14,424,189 | 4,496,336 | - | - | 18,920,525 | 7,827,004 | 431,778 | - | 8,258,782 | 10,661,743 | 6,597,185 | |
| Sewer | 16,679,649 | 317,914 | - | (11,500) | 16,986,063 | 7,166,777 | 429,779 | (11,500) | 7,585,056 | 9,401,007 | 9,512,872 | |
| | \$ 79,643,474 | \$ 5,428,995 | \$ 608,386 | \$(245,978) | \$ 85,434,877 | \$ 40,494,467 | \$ 2,041,470 | \$ (245,978) | \$ 42,289,959 | \$ 43,144,918 | \$ 39,149,007 | |

The accompanying notes are an integral part of these consolidated financial statements.

District of Port Hardy

Consolidated Statement of Accumulated Surplus For the Year Ended December 31, 2018

Schedule 3

| | 2018 | 2017 |
|---|-----------------------------|-----------------------------|
| Surplus | | |
| Invested in tangible capital assets | \$ 41,849,085 | \$ 37,984,832 |
| Operating funds | 5,963,263 | 5,962,697 |
| | <u>47,812,348</u> | <u>43,947,529</u> |
| Reserves | | |
| Buildings | 48,675 | 59,666 |
| Computers | 4,965 | 4,872 |
| Equipment replacement | 135,115 | 146,664 |
| General capital works | 97,587 | 302,348 |
| Park development | 40,288 | 39,534 |
| Recreation facilities | <u>99,636</u> | <u>122,490</u> |
| | 426,266 | 675,574 |
| Water Reserve Fund | | |
| Water capital works | 94,816 | 135,554 |
| Sewer Reserve Fund | | |
| Sewer capital works | <u>-</u> | <u>126,146</u> |
| | <u>521,082</u> | <u>937,274</u> |
| Accumulated Surplus, end of year | <u><u>\$ 48,333,430</u></u> | <u><u>\$ 44,884,803</u></u> |

The accompanying notes are an integral part of these consolidated financial statements.