

2016-2020 Draft Five-Year Financial Plan



Many of the photographs found throughout this 2016-2020 Financial Plan were taken by Roy Ostling, Greg Howard, Landon Sveinson and Rachel Kirk.

Distinguished Budget Presentation Award



Awarded DISTINGUISHED BUDGET PRESENTATION AWARD by Government Finance Officers Association

The City of Nanaimo has received the Distinguished Budget Presentation Award for the 2015-2019 Financial Plan by the Canada/US Government Finance Officers Association. This is the highest form of recognition in governmental budgeting and represents "best practices" in the field. This is the second consecutive year that the City of Nanaimo has received this award.

To receive this award, applicants must be rated "proficient" in four categories which measure how well the budget serves as: a policy document; a financial plan; an operations guide; and a communications device. There are fourteen mandatory criteria within those categories.

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CHAPTER 1 - OVERVIEW



2016 - 2020 Financial Plan

CHAPTER 1 - Overview

Executive Summary



The City of Nanaimo's Draft 2016 - 2020 Financial Plan provides detailed information on the City's revenues and expenditures. The Financial Plan process is informed by policies and plans endorsed by Council, including the Official Community Plan (OCP) and the Strategic Plan. In compliance with the Community Charter, the Financial Plan is developed through public consultation and Council direction.

The Financial Plan also serves as:

- A Policy Document, that outlines the financial policies and processes that guide the development of the financial plan
- An Operations Guide, that helps both internal and external readers with information on operational activities, financial and staffing resources required to deliver services to the community
- · A Communications Device, that gives all readers a comprehensive look at the services

provided by the City and the costs and revenues related to those services

The Five-Year Financial Plan is segregated into two components: operating plans and projects. Annual operating budgets, sometimes referred to as the base budget, include the resources needed for the City to carry out its day to day operations and deliver services to the community. Projects are for expenditures that are one-time or vary year to year. Examples of projects are annual programs related to infrastructure renewal, like the Road Rehabilitation Program, or new infrastructure like the new fire station on Hammond Bay Road. Project expenditures are classified as either capital or operating in compliance with the City's capital asset policy.

The Draft 2016 – 2020 Financial Plan maintains current service levels in 2016. Additional RCMP members, police support staff, IT staff, water utility staff, and additional firefighters for a new fire station are added between 2016 and 2019. The focus of the

Executive Summary - continued

capital program is infrastructure renewal, upgrades to existing infrastructure required due to growth and new infrastructure. New infrastructure in the plan includes completion of a new fire station in 2016.

The City has approximately \$2 billion in infrastructure that supports delivery of services to the community. The City has made significant progress in integrating asset management best practices to support efficient and effective management of its infrastructure. Starting in 2013, Council approved annual property tax increases of 1% for five years, sewer rate increase of 5% for five years, a 4% increase for an additional five years, and water rate increase of 2.5% for eight years for contributions to asset management reserves. The asset management reserves will support sustainable funding for infrastructure renewal. This Financial Plan incorporates those property tax and rate increases. The Financial Plan uses funding from the asset management reserves to fund asset renewal projects.

The current five year plan incorporates an average property tax increase of 1.7%, water rate increase of 7.5%, sewer rate increase of 5% and solid waste increase of 1% in 2016. For an average residential home, the total increase for 2016 taxes and levies will be approximately \$70.94 (excluding the Vancouver

Island Regional Library, the Regional District of Nanaimo, School District 68, Island Health Authority, Municipal Finance Authority and BC Assessment). The anticipated property tax increase for 2017 is 4.1%, for 2018 3.2%, for 2019 2.1% and for 2020 1.5%.

Previous year's reported property tax increases included the impact of increases for the Vancouver Island Regional Library. Starting with the 2016 – 2020 Financial Plan, the City's property tax increases will exclude the Vancouver Island Regional Library. This practice is consistent with many other municipalities.

This Financial Plan provides an overview of Nanaimo's community profile and history, the City government's organizational structure and governance. The City also has a number of financial policies that provide for fiscal responsibility and protect its long-term financial sustainability.

In each section, the 2016 - 2020 Financial Plan provides comprehensive information on the City's financial and strategic management approach to meet the needs of the community, and to work towards a vision where Nanaimo will proudly feature its harbour and inclusive quality lifestyle; excelling as both the business centre and transportation/service hub for Vancouver Island.



Report from the Director of Finance



The City of Nanaimo will invest \$161 million in services and capital projects in 2016 which includes \$124 million for operations and \$37 million for capital needs. In order to meet fundina requirements

for these investments, a 1.7% increase in property taxes for 2016 will be required. The 1.7% increase in property taxes includes \$985 thousand increased contribution to the General Asset Management Reserve.

Water User Fees will increase by 7.5% in 2016 including a 2.5% designated for Water Fund asset management. Sewer User Fees will increase by 5% in 2016 to fund sewer asset management reserve. Garbage User Fees are slated to increase by 1% in 2016.

A typical household will experience a \$71 increase in municipal services costs, which include sewer, water and garbage collection, representing a 2.7% increase over 2015. These costs only include City of Nanaimo financial needs and therefore do not include requisitions from organizations such as the Vancouver Island Regional Library, Regional District of Nanaimo and others.

Property taxes are projected to increase by 4.1% in 2017, 3.2% in 2018, 2.1% in 2019 and 1.5% in 2020. If these increases hold, the City of Nanaimo will increase average 2.5% in property taxes per year to meet funding requirements for the Financial Plan 2016-2020.

Above average property tax increases in 2017 and 2018 are primarily driven by:

- Continued staffing increase for RCMP members and support staff.
- Staffing and operating costs for the new Fire Hall #6 at Hammond Bay.

The \$37 million to be invested in capital projects in 2016 include the following significant expenditures:

- \$2.4 million for Fire Station # 6 in Hammond Bay to be funded through debt or borrowing.
- \$5.1 million for Port Theater Expansion to be funded by a combination of grants and private contributions.
- \$1.6 million for the Boxwood Connector to be funded by Development Cost Charges.
- \$3 million for Jingle Pot to East Wellington sewer project to be funded through a combination of Development Cost Charges and Sewer Reserves.
- \$2.1 million for RES to College Pk Dup Supply water main to be funded through a combination of Development Cost Charges and Water Reserves.

Report from the Director of Finance - continued

79% of capital budget funding will come from a combination of current revenue and reserves, 6% from grants, 8% from debt and 8% from private contributions. Impact on the 2016 property tax increase is nil

I would like to recognize the excellent work done by the Financial Planning team and collaboration and cooperation from departments across the organization. I submit that we have a well reasoned budget proposal for 2016.

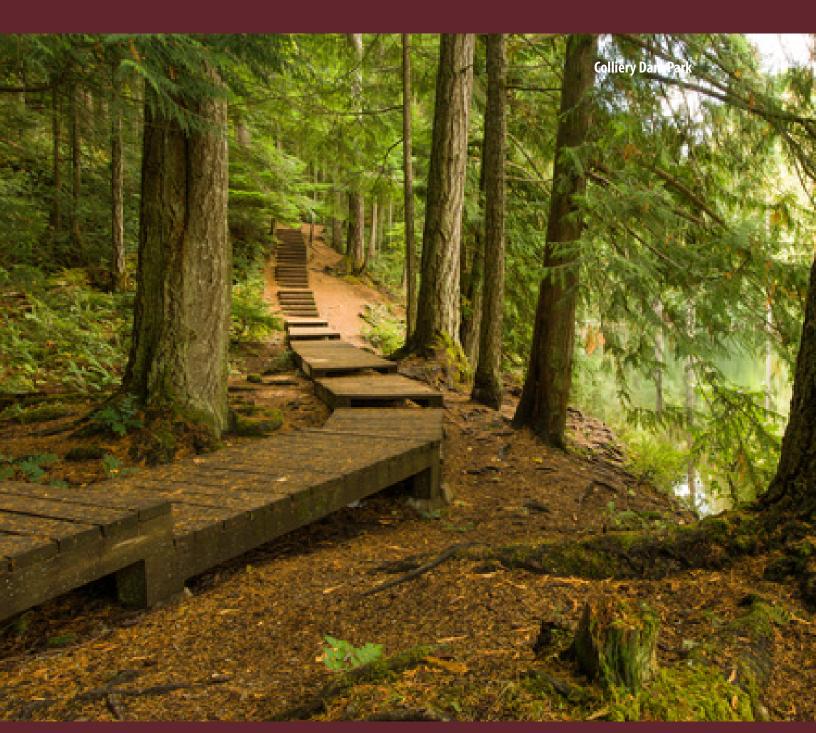
Victor Mema,

Director of Finance





CHAPTER 2 - NANAIMO - THE HARBOUR CITY



2016 - 2020 Financial Plan

CHAPTER 2 - Nanaimo - The Harbour City

City Profile | City Governance Overview | 2016 City Organization

City Profile



The City of Nanaimo is a vibrant and growing regional centre on the east coast of Vancouver Island with a population of approximately 87,000 residents. Forming one of two major gateways to Vancouver Island, the City is an important service centre for a regional population of 360,000 people throughout Central and Northern Vancouver Island.

The City's early development patterns were centred on the harbour and Downtown, with the current City Boundaries being established only in 1975 through amalgamation with a number of surrounding improvement districts. Through the 1980s and 90s, Nanaimo rapidly expanded northward, resulting in development of lower density neighbourhoods, commercial, retail and employment centres stretching along the Island Highway corridor. Recent growth patterns have re-focused development within the City's existing urban growth boundary, resulting in higher levels of infill throughout the City. Looking forward over the next thirty years, the City's population is projected to increase by nearly 40,000 residents and 25,000 jobs, for a total of 126,000 residents and 75,000 jobs.

Providing a vision and policy framework to accommodate future growth, the City's Official Community Plan *planNanaimo* supports a more sustainable, compact Nanaimo where people can work, shop, socialize and recreate in close proximity to where they live.

Nanaimo at a Glance

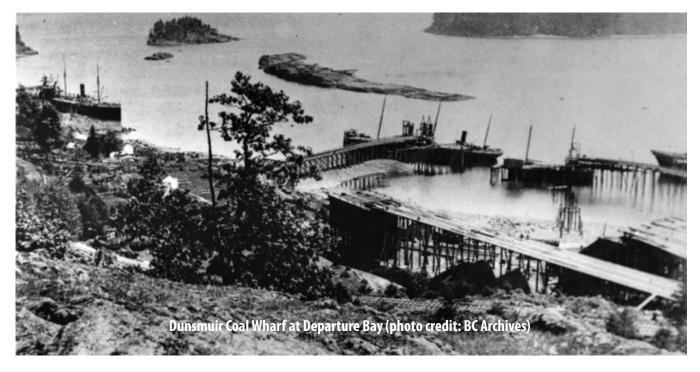


Nanaimo boasts over 100 parks, an extensive trail system, 4 public beaches, 20 picnic areas, Beban Centre which includes Beban Pool facility with 4 pools and Frank Crane and Cliff McNabb Arenas, Nanaimo Aquatic Centre with three pools, Nanaimo Ice Centre with 2 ice rinks and 3 golf courses. Residents can enjoy a leisurely stroll along the waterfront seawall or a vigorous hike up Mount Benson. Newcastle Island, a charming provincial park just off the shores of downtown Nanaimo, is a popular summertime picnic and camping area. Buttertubs Marsh, in the heart of the city, is a wonderful place to view waterfowl and learn about our delicate ecosystems. Neck Point Park is a 14.5 hectare waterfront park known for its views and natural features. The park has a vast trail system of varying lengths and difficulty and offers a number of amenities including picnic areas, viewpoints and lookouts. The Linley Valley is a 59 hectare mainly undeveloped park. The park's trees, bluffs, creeks, wildlife and Cottle Lake contribute to the park's recreational appeal.

Nanaimo is truly a place where you can find what you are looking for. Nanaimo's blend of boutique shops, large indoor shopping malls, plazas, and markets creates what is often referred to as the island's shopping Mecca. Within the downtown core of Nanaimo, three distinct shopping districts exist. The Arts District, Old City Quarter and Waterfront, are all within walking distance of the harbour and each other. They offer the stunning works of West Coast and native art, specialty goods, fashions, marine supplies, and enough books to keep your imagination busy for a long time. Small, medium and large businesses thrive in Nanaimo thanks to its ideal location and dedicated, well-educated workforce.

Nanaimo's arts and culture community is thriving. There are a wide variety of art galleries, the Nanaimo Museum can be found in the Port of Nanaimo Centre, and the Nanaimo Military Museum is located downtown near the waterfront. You can also take in a Vancouver Island Symphony performance in the Port Theatre, an 800 seat facility on the waterfront where more than 270 shows take place annually. You can even combine the arts with the outdoors and take in the annual Symphony in the Harbour, Concerts in the Park or the Annual Blues Festival. Nanaimo is also a festival city and annual events include the Maple Sugar Festival, the Children's Festival, the Marine Festival, the Dragonboat Festival and everything in between.

Nanaimo's History



For centuries, the uneven shoreline, sheltered islands and sandy beaches of the east coast of Vancouver Island have been a place of beauty and plenty. Aboriginal people were the first to make this sheltered stretch of coastline their home. Eventually settling into what are today, Departure Bay and Nanaimo, the Snunéymuxw, a Coast Salish people, found food, fresh water, and winter shelter among the islands and inlets. It was this wealth of natural resources that encouraged the migration of Europeans to this coast many years later. Animals harvested for furs, forests for timber and fish for food were just some of the treasures found here, but it was coal, the black fuel of the 19th century that would mark the heritage of Nanaimo. Today, the houses, commercial buildings, the city plan and the very shape of the land records the progress of a community that grew from a company coal town to a thriving port city.

The east coast of Vancouver Island was first explored by Europeans when Spaniard Juan de Fuca sailed north up the continent in 1592. The English, represented by Captain James Cook, did not arrive until 1778 when Cook landed on the west coast of the island. The Spanish continued to explore the waters around the island giving the names we still use today to the islands and waterways. Commodore Alejandro Malaspina sailed into the sheltered bays around Nanaimo in 1791 and named them Boca de Winthuysen or Winthuysen Inlet, a name that was used until the British settled the area in the next century. In 1794, Captain George Vancouver negotiated the final Nootka Convention that gave the British possession of the island. It was not until 1843, however, that the British established Fort Victoria, their first island settlement. The first settlers arrived in the Nanaimo area in the early 1800s and set up a trading post, which established Nanaimo as an important hub of commerce. A fort was erected by the Hudson's Bay Company in 1853. A portion of the fort remains, the Bastion is now a restored landmark on Nanaimo's waterfront.

It was the discovery of coal that soon attracted the British to the island north of Victoria. In 1849, the Hudson's Bay Company began mining in Fort Rupert on the northern tip of the island. A few years later,

Nanaimo's History - continued

the existence of coal seams was confirmed in, what is today, downtown Nanaimo. In 1852, the Company brought the Fort Rupert miners to Nanaimo to work the coal seams in the new mine. It is believed that the new company settlement was named Colviletown after Andrew Colvile, the Governor of the Hudson's Bay Company. The small settlement grew in 1854 with the arrival of 24 mining families from England. In 1860, the town was renamed Nanaimo (derived from Snunéymuxw).

From 1852 until 1952, Nanaimo was primarily a coal town. Coal-burning ships refuelled here and coal was exported in large quantities from the numerous mines in the area. By 1941, increased demand for lumber and a declining need for coal brought the

area's thriving forests to the forefront. Today, with the coal mines gone and the forest industry in decline, new industries define life in Nanaimo. Over the past two decades, Nanaimo's economy has diversified from a commodity-based economy that traditionally relied on an abundance of natural resources towards a service-based "knowledge" economy that relies on the skills and innovation of the local workforce. The City is now a regional centre for technology, manufacturing, tourism, retail, healthcare, and government services.

During it all, Nanaimo continued to develop as a centre for the meeting and movement of products and people – a gathering place.



Nanaimo's Chinatown



The Daily Free Press

The Daily Free Press building on Commercial Street



Images of Commercial Street

City Government Overview



26th Council of the City of Nanaimo

(left to right) Councillor Jerry Hong, Councillor Bill Yoachim, Councillor Ian Thorpe, Mayor Bill McKay, Councillor Jim Kipp, Councillor Gord Fuller, Councillor Bill Bestwick Councillor Wendy Pratt, Councillor Diane Brennan

Nanaimo City Council is comprised of a Mayor and eight Councillors who are democratically elected and hold office for a four year term beginning with the 2014 municipal election. City Council is responsible for local government leadership and decision making in the City of Nanaimo, and is granted its powers by the Provincial Government. The legal framework and foundation for all local governments in British Columbia is set out in the Local Government Act and the Community Charter, which provide City Councils the necessary powers and discretion to address existing and future community needs, the authority to determine the public interest in their community within the established legislative framework and the ability to draw on financial and other resources that are required to support community needs.

City Council has the authority to enact and enforce bylaws and policies that relate directly to community needs along with the ability to collect taxes and fees to fund those activities and services. City Council is ultimately responsible for establishing the policies of the City of Nanaimo, for carrying out those policies and for the general and overall administration of civic business.

City Council typically meets every Monday with the exception of statutory holidays, conferences and three weeks in the summer.

Committees, Commission and Boards



The *Community Charter* and *Local Government Act* provide Council the authority to establish 'Select Committees', Commissions, Boards and Panels.

Advisory Committees are created by Council to provide information, well-considered advice, and recommendations for consideration by Council and staff on specific issues of civic concern. Advisory Committees are made up of citizen representatives and one or two Council members appointed by Council. Council adopts Terms of Reference for each Advisory Committee which outlines the Committee's mandate, term, composition and procedures.

At its regular meeting held March 2, 2015, Council established the following Advisory Committees and Commissions:

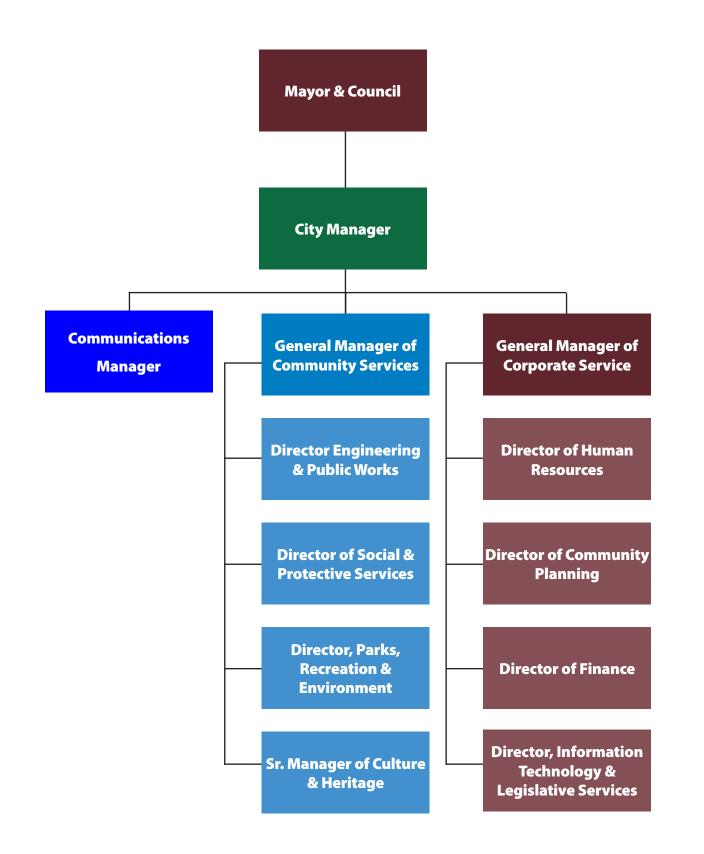
- Advisory Committee on Environmental Sustainability
- Core Services Review Committee
- Design Advisory Panel
- Grants Advisory Committee
- Youth Advisory Council

- Nanaimo Culture and Heritage Commission (NCHC)
- Nanaimo Economic Development Corporation
 Nominating Committee
- Parks and Recreation Commission
- Safer Nanaimo Advisory Committee (SAFER)
- Social Planning Advisory Committee (SPAC)
- South Downtown Waterfront Committee
- Planning and Transportation Advisory
 Committee
- Terminal/Nicol Corridor Streetscape Project
 Committee
- Water Supply Advisory Committee

Boards and Panels are established pursuant to specific enabling statute and have a unique function within the municipal framework. Membership is determined by Council and enabling legislation. Council has established the following Board and Panel:

- Board of Variance
- Parcel Tax Roll Review Panel

City of Nanaimo Five-Year Financial Plan 2016-2020 - DRAFT





CHAPTER 3 - PLANNING FRAMEWORK



2016 - 2020 Financial Plan

CHAPTER 3 - Planning Framework

Strategic Plan 2012 to 2015

The City's Strategic Plan continues to guide planning activities. The Strategic Plan is based on Nanaimo's four pillars of sustainability: Economic Health, Environment Responsibility, Social Equity and Cultural Vitality.

Six key strategic priorities were then identified: Asset Management, Community Building Partnerships, Taking Responsibility, Transportation and Mobility, Water and Waterfront Enhancement.

The Draft 2016 – 2020 Financial Plan includes many initiatives linked to the Strategic Plan including: infrastructure renewal projects, annual social, cultural and sports grant programs, new cycling, pedestrian, transit and vehicle amenities and water conservations programs. Significant progress has been made on strategies and initiatives to carry out the City's Strategic Plan. The current status of these strategies and initiatives can be found on the City's website: http://www.nanaimo.ca/EN/main/ departments/Human-Resources/strategic-plan. html.

ASSET MANAGEMENT

Outcomes desired include optimized infrastructure and facility life, capital financial plans and reserves in place to adequately fund lifecycle and replacement costs, minimize disruption to service, and risks to public health and property.

2016 – 2020 Financial Plan includes:

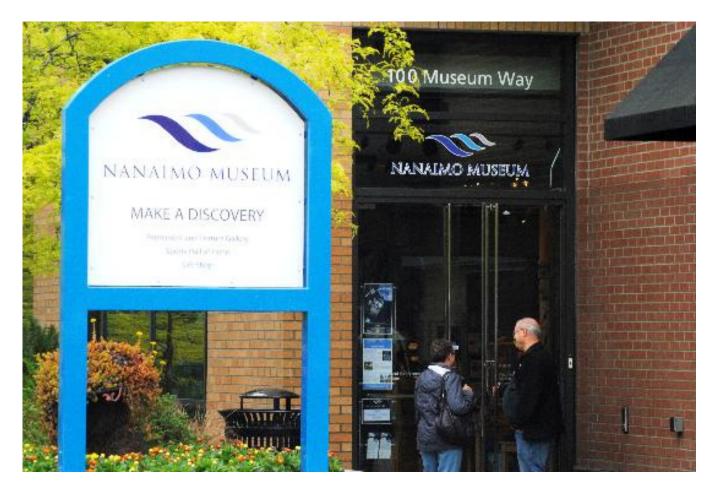
- Road, drainage, sanitary sewer and water infrastructure renewal projects
- Facility renewal projects
- Property tax and user fee increases for contributions to asset management reserves
- Development of 10 year planning models for renewal of facility components, fleet and infrastructure

COMMUNITY BUILDING PARTNERSHIPS

Outcomes desired include a socially diverse and sustainable city that nurtures a caring, inclusive, safe environment, a healthy community that addresses negative determinants and barriers to health and encourages healthy, active lifestyles, that Nanaimo will be recognized as one of BC's most Successful Cities by 2025, and a strong, vital non-profit 'community benefit' sector will flourish.

2016 – 2020 Financial Plan includes:

- Annual social, cultural and sports grant programs
- Annual operating grants to the Nanaimo Museum, Port Theatre and McGirr Sports Fields Society
- Continued collaboration with community stakeholders in the Social and Health Network. Initiatives include the Child Poverty Action Plan and the Vital Signs Report



TAKING RESPONSIBILITY

Outcomes desired include a good public rating of the City's performance.

2016 – 2020 Financial Plan includes:

- E Town Hall held on November 23, 2015 to gather public input for the financial plan
- Core Services Review

TRANSPORTATION AND MOBILITY

Outcomes desired include an integrated, coordinated network linking in-city and intercity public transportation, reduced dependency on the car, increased utilization of public transit, increased shift and viability of active transportation options, reduced long term infrastructure costs, effective response to accessibility and mobility needs of those who do not own a car, reduced GHG emissions, economic growth due to enhanced transportation connections to Victoria, Vancouver and the world and a sustainable transportation system.

2016 – 2020 Financial Plan includes:

- Transportation Master Plan implementing recommendations -projects to enhance all transportation modes (pedestrian, cycling, vehicle and transit) as recommended in the Transportation Master Plan
- Completion of OCP update
- Completion of DCC review



WATER

Outcomes desired include: a 'Water Culture' that includes achieving the 'Blue Community Designation', recognition of the importance and value of water, an environment of sustainable water use, a secure, safe and sustainable water supply, cost effective water delivery and reduction of per capita water consumption by 10% per decade.

2016 – 2020 Financial Plan includes:

- Water user fees review
- Water Conservation Strategy implementing recommendations -Toilet Rebate Program
 - -Appliance Rebate Program
- -Leak detection study
- Continued collaboration with other stakeholders, including senior governments, the RDN and SFN in the management of the watershed

WATERFRONT ENHANCEMENT

Outcomes desired include enhanced public access and use, a continuous, uninterrupted and accessible waterfront trail from Departure Bay Beach to Nanaimo River Estuary, a working waterfront that supports business, marine industries, transportation connectivity, entertainment and tourism, protected view corridors to the waterfront and protected and enhanced marine habitat.

2016 – 2020 Financial Plan includes:

• The development of a detailed Master Plan is underway and will continue in 2016

Performance Measurement - The Balanced Scorecard

In 2013, the City developed a set of performance measurements, known as the Balanced Scorecard, to draw attention to performance results by examining quantifiable measures that extend beyond traditional methods of evaluating performance by emphasising mainly financial results. The Balanced Scorecard initiative was a deliverable of the Strategic Plan, specifically the strategic priority – Taking Responsibility.

Examples of significant improvement trends include: 13% decrease in water consumption since 2007, curbside collection volume of garbage has decreased by over half in the last five years, and facility energy consumption has decreased every year for the last six years.

Nanaimo on average has lower residential property taxes and user rates in comparison to other municipalities of similar population. Commercial tax rates for Nanaimo are higher than average in comparison to these same municipalities. The effectiveness of policing programs has resulted in a decreasing trend in the past years for the number of criminal code offenses per 1,000 residents.

Current Balanced Scorecard measures can be viewed on the City's website. <u>http://www.nanaimo.ca/PerformanceMeasurement/BalancedScorecard</u>





Performance Measurement - The Balanced Scorecard

Social Perspective Response to Homelessness Unemployment Rate Criminal Code Offenses # Youth Charged with Criminal Code Offenses Quality of Life Funding for Cultural Activities Public Art Child Fitness 		 Customer Perspective Satisfaction with Level and Quality of City Services Satisfaction with Communications with Citizens Value for Property Taxes Business Satisfaction with City Services Business Perspective Value for Taxes Hotel Occupancy Rate
 Service & Program Delivery Fire/Rescue Response Time Water Quality Pavement Quality Index Average Age of Water Mains Average Age of Sanitary Sewer Mains Participation in Recreation Programs Hectares of Open Space Kilometres of Trails Square Metres of Recreation Facilities Average Time to Process a Building Permit 	BALANCED SCORECARE	 Training Costs as % of Expenditures
 Financial Perspective Residential Tax Burden Compared to Similar Municipalities Commercial Tax Rate Compared to Similar Municipalities Industrial Tax Rates Debt Per Capita Debt Servicing as % of Expenditures Reserves as % of Operating Expenditures Average Value of Single Family Dwelling Delegate Days at VI Conference Centre Economic Benefits Generated by Sport Tourism Property Tax Revenue from New Construction 		 Environmental Perspective Water Consumption Waste Diverted from Landfill Corporate GHG Emissions Urban Density Commuter Trips Using Alternative Transportation Modes Protection of Environmental Sensitive Areas (ESAs) Urban Forests Air Quality Index Average Fuel Efficiency of the Fleet Corporate Energy Consumption Community GHG Emissions

2013 Citizen Satisfaction Survey

Last performed in 2013, the Ipsos Reid 2013 Citizen Satisfaction Syndicated Survey conducted 300 telephone interviews for the City of Nanaimo. The results of the survey indicated:

- Overall Quality of Life 93% responded very good/good (2012 95%)
- Overall Satisfaction with City Services 91% responded very/somewhat satisfied (2012 87%)
- Value for Taxes 74% responded good value (2012 71%)
- Balancing Taxation and Service Delivery Levels 45% responded to increase taxes (2012 43%), 37% responded to cut services (2012 41%)

The next Ipsos Reid survey is currently planned to take place in 2016.

Timeline:

June 2015

Financial Plan Information and Instructions communicated to departments •

July/August/September 2015

- Departmental operating and project budgets prepared and submitted •
- Plans reviewed by Financial Planning

October 2015

- Draft 2015 2019 Financial Plan competed and reports prepared for Council's review •
- Special Open Council Meeting on October 22, 2015
- Budget Presentation and Budget in Brief report •

November/December 2015

- Draft 2015 2019- Financial Plan completed and reports prepared for Council's review
- Municipal election held on November 15, 2014, with the inaugural meeting of a new Council on • December 1, 2014

December 2015

- Budget workshop on November 17, 2015 •
- E Town Hall on November 23, 2015 •
- Additional meetings/workshops may be scheduled as needed and at Council's discretion •



Budget Monitoring

The City monitors its financial performance as it relates to budget on an ongoing basis and through monthly management reporting and a detailed quarterly variance analysis. This regular monitoring provides management the information required to determine if any changes might be necessary to ensure the year's actual revenues and expenditures are within budget. The City provides Council with regular project status reports which includes the current status of all projects and related expenditures to date.



Financial Policies and Fund Structure

Governing Policy and Regulatory Requirements

In accordance with the laws of British Columbia through the *Community Charter*, municipalities must prepare a five-year financial plan each year. These plans must be adopted by municipal Councils before May 15th, and they are required to identify the proposed expenditures, funding sources and transfers to or between funds.

The *Community Charter* also directs City Council to engage the public in a consultation process prior to adoption of the proposed financial plan.

The City of Nanaimo develops its Five-Year Financial Plan in a manner that follows generally accepted accounting principles (GAAP). The City uses the accrual method of accounting in which revenues

Revenue Policy

The *Community Charter* requires municipalities to develop specific statements of policy on specific revenues and taxes. The annual Five-Year Financial Plan must set out explicit objectives and policies of the municipality in relation to:

- The proportion of total revenue that is proposed to come from each of the following revenue sources:
 - -Property values taxes (taxes based on assessment)
 -Parcel taxes
 -Fees & charges
 -Proceeds from borrowing
- -Other sources

and expenses are recognized at the time they are incurred. The budget is prepared on the same basis. The budget is organized by type of operation (i.e. general fund, capital funds, utility funds, etc.) with each operation considered a separate budgeting and accounting entity. Funds are budgeted and reported along departmental lines, with authority for budgetary approval resting with Council. Council delegates the authority for actual disbursement and implementation of the Financial Plan to the City Manager. All financial operational policies relating to accounting practices are adhered to in the development of the Five-Year Financial Plan.

- The distribution of property taxes among the property classes (i.e. residential, industrial, commercial, etc.); and
- The use of permissive tax exemptions.

In addition, before adopting the annual Property Tax Rate Bylaw, all municipalities must consider the proposed tax rates for each property class in conjunction with the objectives and policies set out in the financial plan.

The revenue policy statement adopted by Council in 2015 can be found in Appendix B of this document.

In compliance with the *Community Charter*, the City's Five Year Financial Plan must be balanced. The total of proposed expenditures and transfers to other funds for a year must not exceed the total of the proposed funding sources and transfers from other funds for the year.

Fund Structure

The resources and operations of the City are segregated into General, Sanitary Sewer Utility, Waterworks Utility and Reserves Funds for budgeting purposes. Each fund is treated as a separate entity. The General and Utility Funds also have corresponding Capital Funds.

The fund structure consists of:

General Fund

The General Revenue Fund is the primary operating fund used to manage a majority of the City's financial resources and obligations. Some of the services that are provided from this fund include policing, fire services, recreation programs and facilities, roads and drainage maintenance and solid waste collection.

- Revenue Fund
- Capital Fund

Sanitary Sewer Utility Fund

The Sanitary Sewer Utility provides sanitary sewer services to almost 25,000 properties and is funded from user fees.

- Revenue Fund
- Capital Fund

Waterworks Utility Funds

The Water Utility provides water services to over 25,000 properties and is funded from user fees.

- Revenue Fund
- Capital Fund

Reserve Funds

- Development Cost Charge Reserve Fund
- Cemetery Care Reserve Fund
- Parkland Dedication Reserve Fund
- Property Sales Reserve Fund
- Equipment Depreciation Reserve Fund
- Facility Development Reserve Fund
- Community Works Fund

- Old City Neighbourhood Parking Fund
 - Knowles Estate Reserve Fund
- General Fund Asset Management Reserve Fund
- Regional Emission Reduction Reserve Fund
- Sewer Fund Asset Management Reserve Fund
 - Water Fund Asset Management Reserve Fund

Debt and Debt Limits

In the past it has generally been the City policy to minimize external debt borrowings by using existing reserves to fund capital expenditures. Major projects that will benefit future residents have and will continue to be financed with debt. This is based on the assumption that since future residents will benefit from the projects they should share in the costs by paying the debt servicing costs through future property taxes.

The maximum amount of debt which may be held by a municipality is restricted by its Liability Servicing Limit. This represents the cost of servicing debt throughout the year (including both interest and principal). The Liability Servicing Limit is set by the Community Charter and is defined as 25% of a municipality's controllable and sustainable revenues for the year.

For the City of Nanaimo, the Liability Servicing Limit for 2014 is \$34.7 million. The budgeted cost of debt interest and principal payments for 2015 is \$5.7 million.





CHAPTER 4 - FINANCIAL PLAN OVERVIEW



2016 - 2020 Financial Plan

CHAPTER 4 - Financial Plan Overview

Economic Background

The City's financial planning decisions must be made with an awareness of how external influences can affect Nanaimo's economy. We saw this impact during and after the economic downturn in 2008, where global economies either contracted or entered periods of no or very low growth.

Global, National and Provincial Background

Uncertainty about the U.S. and global economies continue to make the headlines. While monetary tightening is on hold for now, interest rate volatility and the recent downturn in the oil and gas sector will put pressure on heavily indebted Canadian households and governments. Expected continuing improvement in the U.S. economy will positively impact Canada's trade and economic performance.

The recent Federal election and the new Liberal government's commitment to investment in infrastructure may provide needed funding for local governments.



Nanaimo's Economy

Nanaimo's economy continues to recover from the 2008 downturn and remains relatively stable. The opening of a medical marijuana facility in Nanaimo, operated by Tilray, now employs over 100 people and expansion plans have been announced.

Nanaimo's unemployment rate for 2013 was 5.5%, 1.1% below the provincial average. Median income in 2010 was \$44,412 compared to \$49,143 for B.C. The top four most common occupations for those working full-year full-time were middle management occupations in retail and wholesale trade and customer services; industrial, electrical and construction trades; sales representatives

and salespersons and administrative and financial supervisors and administrative occupations.

The number of business licenses issued by the City has grown by 4.4% in the last five years and 24.6% in the last decade. The number of business in Arts and Culture has increased while those in finance, insurance and wholesale trade have declined. Businesses classified as professional, scientific and technical, administrative and support/waste management and remediation and construction also experienced high rates of growth.

The City of Nanaimo - Issues Affecting Financial Planning

The City of Nanaimo's principal activities include the provision of local government services to residents. Services provided include police and fire protection, solid waste collection, management of roads, drainage, sanitary sewer, waterworks and parks infrastructure, along with the delivery of leisure and cultural services. The City also acts as a regulatory body with respect to business licensing, building permits and inspection, land use, development planning and subdivision approval services. Services such as library, and sewer treatment are provided through other boards and partnerships with other governments.

The City of Nanaimo faces numerous challenges which include:

- Requirements to provide infrastructure that complies with new regulations and/or senior government policies
- Decline in interest rate sensitive revenues
- Costs outside of Council's direct control, such as police and library services, that increase well above inflation
- Rising labour costs

Property taxes and user fees are the principal funding sources for increased service delivery costs and maintenance of an expanding infrastructure base. Nanaimo currently operates with residential tax levels that are comparable to similar communities around British Columbia. As a result of Council's policy implemented in 2009 to reduce the major industry tax rate to be equal to the commercial rate, the 2016 tax increases for all types of properties will now be the same each year.

Over the years, the City of Nanaimo has invested in new capital infrastructure including buildings, roads and underground utilities. The City has also increased service levels, largely in police and fire protection. The long term sustainability of operating, maintaining and replacing infrastructure and of increased service levels will require continuing examination and prioritization by Council as they also consider:

- Public expectations of receiving the same or even enhanced service levels
- Increasing demands for infrastructure to support a growing community
- Financial management policies that contribute to future asset replacement and improved financial sustainability of the City

In order to continue providing adequate services under these conditions, Council will continue to examine and prioritize City services in order to provide services acceptable to the public while continuing to achieve the longer-term vision of making Nanaimo a City where people choose to live, learn, work and play.

Annual Operating and Project Planning

The City financial planning is organized into operating plans that identify the resources required to carry out the City's day to day functions and services, and into project plans that identify the resources required to complete asset renewal projects, construct new infrastructure projects and other types of one time expenditures such as studies. Operating budgets are sometimes referred to as 'base' budgets. Projects are classified as either operating or capital per the City's Capital Expenditure Policy (Appendix B).

Budget Best Practices

The Government Finance Officers Association of the United States and Canada (GFOA) has established the Distinguished Budget Presentation Award to encourage governments to prepare budget documents of the highest quality to meet the needs of decision-makers and residents. Each budget document submitted is evaluated using a comprehensive evaluation checklist and those which are judged proficient receive the award (www. gfoa.org).

The City received, for the second consecutive year, the Distringuished Budget Presentation Award for the 2015 - 2019 Financial Plan.

The City believes our current budget process continues to conform to program requirements, and it is being submitted to GFOA to determine its eligibility for another award.



Financial Plan Overview

Key Budget Assumptions

Allowable Inflationary Increases

British Columbia's consumer price index (CPI) climbed 1.9% higher in June 2014, relative to the same month in 2013. The price increase marks the fourth consecutive month of year-over-year inflation for the province. The Canadian inflation rate reached 2.4% in June, as prices rose in every province and territory. (Source: www.bcstats.gov.bc.ca, www. statcan.bc.ca)

Local government operating costs, however, do not always reflect the items measured by the Consumer Price Index. Municipal expenditures are related to employment contracts and infrastructure construction and maintenance which are very different from increases in the cost of personal food, clothing and transportation used for calculating changes in the CPI.

In the future years in the Draft 2016 – 2020 Financial Plan, 2% increases were used for expenditures in year's two to five except where more specific information was identified. Revenue from fees and charges and sales of service were estimated to increase at a rate of 1% per year, again for year's two to five, while other revenues were expected to remain unchanged.

Union Negotiations

The majority of City staff members are employed under two main Union bodies, the Canadian Union of Public Employees (CUPE Local 401), and the International Association of Fire Fighters (IAFF).

In January 2015, the City and CUPE Local 401 ratified a new three contract for the period January 1, 2014 to December 31, 2016. The contract included a retroactive 2% increase in 2014, a 2% increase in 2015, a 1% increase on January 1, 2016 and a further 1% increase on July 1, 2016. The majority of the staff in the Fire Department are members of IAFF and their contract will expire December 31, 2015. Staffing costs for IAFF members are budgeted at 2015 rates and an allowance for an estimated negotiated increase was budgeted separately.

Key Budget Assumptions - Continued

Budget Bylaw Amendment

As outlined in the *Community Charter*, the Five-Year Financial Plan is to be adopted by May 15th of the first year of the Plan. At any time, subsequent to the original adoption, an amended financial planning bylaw can be adopted by Council for that year.

A budget bylaw amendment was required for the 2015 – 2019 Financial Plan to include the Colliery Dam Spillway project and other projects with funding from grants or reserves, and where budget transfers required the projects to be reclassified between capital and operating funds.

City Financial Health and Future Outlook

The City will continue to face challenges, one of the most significant is to provide sufficient funding to maintain and replace the City's infrastructure. The current replacement cost of City infrastructure is estimated to be over \$2 billion. While most of the City's infrastructure is less than half way through its useful life, their eventual replacement will burden the City's financial capacity and as assets age annual maintenance costs may increase.

In 2013, Council approved annual tax and user fee increases to create three new reserves for long term asset renewal plans. This proactive and prudent approach will build reserves to fund long term asset renewal plans and sustainable delivery of services to the community. Staff will review and update long term asset renewal plans.

The City continues to grow, adding new residents and businesses to the community.



Revenues

The City receives revenue from several sources with the main contribution from property taxes and user fees. Examples of revenues from other sources includes: grants, casino revenue, interest income and the Regional Parks Agreement. The *Community Charter* regulates property taxes. City policies guide how fees and charges are determined and City bylaws set user rates.

5 Year Financial Plan - Impact on Tax and User Fees

The table below shows the property tax and utility user fee increases.

In 2013, Council approved a 1% increase in property taxes for five years as well as annual increases to sanitary sewer and water user fees for contributions to asset management reserve funds. The property tax increases indicated below include a 1% increase in 2015, 2016 and 2017 for contributions to the General Fund Asset Management Reserve Fund. The sanitary sewer use fee increases indicated below are solely related to increased contributions to the Sanitary Sewer Asset Management Reserve Fund and the water user fee increases noted below include 2.5% for increased contributions to the Water Asset Management Reserve Fund.

	2016	2017	2018	2019	2020
Property Tax Increase	1.7%	4.1%	3.2%	2.1%	1.5%
Sanitary Sewer User Fee Increase	5.0%	5.0%	5.0%	4.0%	4.0%
Water User Fee Increase	7.5%	7.5%	7.5%	7.5%	7.5%

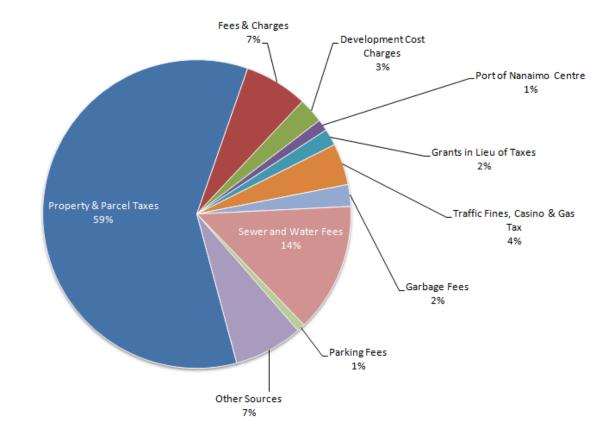
Previous year's reported property tax increases included the impact of increases for the Vancouver Island Regional Library. Starting with the 2016 – 2020 Financial Plan, the City's property tax increases will exclude the Vancouver Island Regional Library. This practice is consistent with many other municipalities.

2016 Budget Impact on a Typical Home (BC Stats - 2015 average of \$331,136)

The impact of the budget increase for 2016 in the draft 2016 – 2020 Financial Plan for a typical home in Nanaimo is estimated to be \$70.94. This increase does not include impact of increased requisitions or levies from the Vancouver Island Regional Library, the Regional District of Nanaimo, School District 68, Island Health Authority, Municipal Finance Authority and BC Assessment.

	<u>\$ 70.94</u>
Garbage Fees	<u>\$ 1.00</u>
Sewer Fees	\$ 5.61
Water Fees	\$ 31.00
Taxation	\$ 33.33

2016 Revenue Breakdown



The table below indicates the revenues collected and used to fund 2016 expenditures.

The primary funding source for city services in the 2016 Financial Plan is property taxes at \$98.5 million. This includes a property tax levy increase of \$2.9 million of which an estimated \$1.2 million comes from new assessment growth. New assessments are created through additional residential units and business in the City.

Taxation

Property taxes represent 59% of the City's 2016 revenues and finance a majority of the services provided by the City. Every property owner in the province must pay property taxes based on the value of their property unless the property is specifically exempted by provincial statute. Statutory exemptions are listed in the *Community Charter* and include, but are not limited to:

- Schools and universities
- Hospitals

- Places of public worship
- Property owned by BC or Canada

The valuation of property within the City is determined by BC Assessment. BC Assessment is a provincial Crown Corporation that classifies and assesses the value of all real property in British Columbia.

In British Columbia, there are nine property classes:

- Residential
- Utilities

Taxation - continued

- Supportive Housing
- Major Industry
- Light Industry
- Business / Other
- Managed Forest Land

- Recreational / Non profit
- Farm

Under the *Community Charter* the City may grant permissive tax exemptions which exempt certain properties from taxation for a specified period of time.

User Fees

In accordance with the *Community Charter*, municipal governments set fees and charges by bylaw to cover reasonable costs of providing services to the public. The fees charged must be for the services delivered with no intention of generating a surplus.

The City has adopted bylaws authorizing user fees for parks and recreation programs, water, sewer and garbage utilities and animal control.

Reserve Funds and Surplus

The City has Reserve Funds (Statutory Reserves) that are authorized by the Community Charter and/ or City bylaw. The purpose of setting aside reserves is to provide funding for various anticipated future expenditures to ensure sufficient funds are available when required and where possible avoid the need to incur debt. Statutory Reserves may only be used as authorized by the *Community Charter* and the related Council Bylaw.

Surplus funds are the result of past budget surpluses (i.e. where actual revenues have been in excess of actual expenditures) and may be used for any municipal capital or operating purpose as authorized by Council. Currently, the City allocates its surplus to specific reserves and uses these to fund one-time capital and operating items.

The City's Reserve Accounts will be used to fund ongoing projects and potential liabilities such as tax appeals and insurance claims. Statutory Reserve Funds including development cost charges, asset management, facility development and equipment replacement reserves will be used to fund projects in future years related to development and infrastructure renewal. Despite the size of these reserves, there are needs that have been identified in the capital planning process for which no funding sources currently exists.

Other Revenues

Grants

In addition to grants for specific capital projects, the City receives annual grants including a Provincial Traffic Fine revenue grant. The City also receives grants in lieu of taxes from properties owned by the Federal or Provincial Governments or their Agencies and from private utilities operating within the City of Nanaimo.

Casino Revenue

In November 1999, the City of Nanaimo began to receive revenue from a casino operation. The City receives 10% of the net earnings from casino operations. Casino revenues are variable and have

declined during the past years, from \$3.0M received in 2008 to \$2.3M received in 2012, then a modest recovery in 2013 to \$2.5M. Revenues for 2014 were \$2.4M.

Revenues

Interest Income

The City pools its available cash from various funds and invests in financial instruments in accordance with the City's investment policy (Appendix B).

Interest income continues to remain below historical levels due to low market rates.

2016 Key Budget Drivers

The 2016 property tax increase of 1.7% includes a 1% increased contribution to the General Asset Management Reserve.

Increases to the City's budget can be classified as:

- New Services where a new program or service is provided
- Enhanced Services where current programs or services are enhanced through changes in service delivery method or in response to growth
- Sustaining Services where costs pressures due to inflation, contractual obligations or increasing maintenance needs increase annual expenditure budgets

The draft 2016 expenditure budget increased \$3.6 million which was partially offset by \$1.9 million increased revenues.

2016 expenditure budget increases:

Enhanced Services -\$177,678 for additional staffing for Police Support Services and IT -\$580,000 for four additional RCMP members Sustaining Services

 \$985,000 for increased contribution to the General Asset Management Reserve
 \$974,106 for wages and benefits in compliance with labour contracts
 \$301,232 for RCMP contract increase
 \$537,000 for other expenditure increases such as utilities and contracted services

2016 revenue budget increases:

- Estimated \$525,000 from new operating agreement with Fortis
- Estimated \$194,000 increase in other revenues such as grants in lieu, building permits and Parks, Recreation and Environment fees
- Estimated \$1.2 million from increased property tax revenues due to growth

The draft 2016 -2020 Financial Plan does not include any new services.







New Revenues, Service Level Changes and Savings

The Draft 2016 – 2020 Financial Plan process focused on the need to maintain a reasonable tax rate, identify efficiencies without compromising service levels and continue to renew asset infrastructure in an optimal manner.

On February 2, 2015, Council approved proceeding with a Core Services Review. A Core Services Review

Steering Committee was established and will first develop a mandate to guide the development of terms of reference of the core review. It is expected that the review will be completed during 2016. During the Core Review process, Council has directed that current service levels and staffing levels will not be adjusted.

New Revenues

The Draft 2016 – 2020 Financial Plan includes new revenues starting in 2016 due to a new operating agreement with Fortis BC. New annual revenues are estimated to be \$525,000.

Additional residential units and businesses generate additional property tax revenues each year for the

City. Property tax revenues in 2016 are estimated to increase by \$1.2M due to growth.



2016-2020 Financial Plan Enhanced Services

The draft 2016-2020 Financial Plan also includes the following enhanced services:

• Police Services

16 additional RCMP members

- -4 members in 2016
- -3 members in 2017
- -5 members in 2018
- -4 members in 2019
- 3 additional support staff for Police Services
 - -1 FTE in 2016
 - -1 FTE in 2017
 - -1 FTE in 2018
- Fire Services

20 additional firefighters

- -10 firefighters in 2017
- -10 firefighters in 2018
- Water
 2 new positions in 2016
- Information Services
 1 FTE in 2016

Annual Operating Savings

Insurance costs are expected to decrease \$147,000 in 2016.

A new business model adopted in late 2015 for 911 services resulted in the reduction of 6.2 FTEs offset by the cost of a new contract and loss of Call Answer Levy revenues. The result was nil change to net operating expenditures for 911 services.

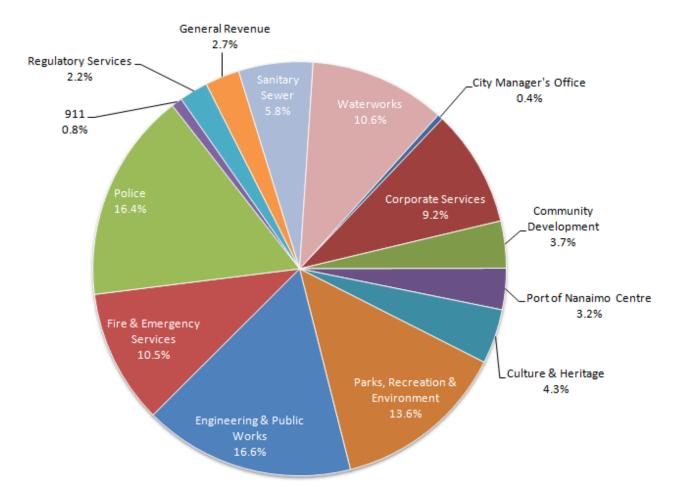
2016-2020 Financial Plan - Revenues and Expenditures

The Draft 2016 – 2020 Financial Plan is summarized below. This presentation identifies all expenditures and funding sources, including capital and operating projects by department. Significant increases or decreases in department's expenditures budgets are primarily due to the timing of projects except where service level enhancements occur.

2016 Total Expenditures by Department (Includes Project Expenditures)

	2014	2015	2016	2017	2018	2019	2020
	Actual	Budget	Budget	Budget	Budget	Budget	Budget
FUNDING REVENUES (\$)		<u> </u>	<u> </u>	5	<u> </u>	<u> </u>	2
Property Taxes	92,997,762	95,387,670	98,315,583	103,511,278	108,037,621	111,522,962	114,502,603
Parcel Taxes	247,568	236,574	231,923	234,242	236,584		
Fees & Charges	38,397,549	36,694,292	38,290,552	40,025,693	41,813,860	43,722,729	45,693,787
Other	32,599,263	27,659,865	28,747,908	31,865,710	24,192,186	24,519,130	24,952,455
Borrowing	9,217,271	134,646	2,400,000	600,000	12,000,000		
Annual Total Revenues	173,459,413	160,113,047	167,985,966	176,236,923	186,280,251	179,764,821	185,148,845
EXPENDITURES (\$)							
City Manager's Office	699,230	730,600	737,101	750,094	765,695	781,680	798,047
Corporate Services	14,037,163	17,569,548	15,881,717	15,453,858	16,126,599	15,978,670	16,445,341
Community Development	8,141,530	7,485,469	6,379,032	6,331,230	6,448,651	6,641,899	6,765,304
Port of Nanaimo Center	5,483,634	5,557,208	5,588,883	5,759,266	6,064,973	5,930,110	6,080,798
Culture & Heritage	2,160,617	3,105,581	7,401,949	9,257,661	2,571,861	2,305,961	2,424,029
Parks, Recreation & Environment	32,754,222	27,213,516	23,508,126	25,650,793	27,455,060	24,949,266	24,148,757
Engineering & Public Works	26,824,988	35,695,552	28,496,548	31,205,525	38,896,760	29,198,246	28,956,794
Fire & Emergency Services	15,083,845	15,655,340	18,170,240	17,525,964	18,207,884	19,664,050	20,168,528
Police	24,095,676	27,279,161	28,462,569	30,807,087	37,955,756	33,719,038	34,362,575
911	1,676,087	1,882,240	1,461,013	1,433,877	1,466,833	1,564,127	1,526,664
Regulatory Services	3,510,708	4,428,469	3,878,069	3,961,919	3,397,152	4,202,710	4,287,254
General Revenue	3,933,996	4,147,468	4,649,368	4,795,619	4,946,931	4,864,530	5,024,110
Sanitary Sewer	7,720,468	12,702,288	10,037,814	7,169,531	10,992,379	7,045,815	8,610,643
Waterworks	31,557,286	33,325,087	18,380,609	25,478,160	17,627,147	17,946,762	17,397,287
Annual Total Expenditures	177,679,450	196,777,527	173,033,038	185,580,584	193,497,681	174,792,864	176,996,131
	(5 557 524)	(5.001.2(1)	(5.442.000)	(5.552.260)	(5.664.204)	(5 770 110)	(5.004.210)
Internal Cost Allocations	(5,557,521)	(5,801,361)	(5,443,090)	(5,552,360)	(5,664,304)	(5,778,119)	(5,894,219)
Internal Charges to Asset Renewal Reserves	(1,939,408)	(1,487,356)	(2,018,758)	(2,089,350)	(2,164,819)	(2,247,292)	(2,335,379)
Net Expenditures After Allocations and Charges	170,182,521	189,488,810	165,571,190	177,938,874	185,668,558	166,767,453	168,766,533
Net Revenue (Expenditures)	3,276,892	(29,375,763)	2,414,776	(1,701,951)	611,693	12,997,368	16,382,312
Transfers to/from Accumulated	(3,276,892)	29,375,763	(2,414,776)	1,701,951	(611,693)	(12,997,368)	(16,382,312)
Financial Plan Balance							
Staffing (FTEs) - Municipal	605.3	607.1	605.9	619.9	626.9	627.9	627.9
Staffing (FTEs) - RCMP	140.0	140.0	144.0	147.0	152.0	156.0	156.0
Cost Per Capita	\$1,914.98	\$2,104.05	\$1,814.18	\$1,923.91	\$1,980.97	\$1,755.80	\$1,753.36
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2016 Total Expenditures by Department (Includes Project Expenditures)







Major Funds - 2016 Financial Summary

Operating expenditures are net of transfers between funds. An allocation of General Government and Engineering and Public Works expenditures is made to both the Sewer and Water Utility Funds.

	General Fund	Sewer Utility Fund	Water Utility fund	Total
OPERATING REVENUES		, i i i i i i i i i i i i i i i i i i i	-	
Taxation	\$98,547,506	\$	\$	\$98,547,506
Fees & Charges	12,050,823	6,318,650	15,977,764	34,347,237
Grants	1,169,892			1,169,892
Casino Revenue	2,400,000			2,400,000
Traffic Fine Sharing Revenue	1,000,000			1,000,000
Climate Action Revenue Incentive	125,000			125,000
Investment Income	1,810,000			1,810,000
Other Revenues	12,470,370		137,704	12,608,074
Revenues Total	\$129,573,591	\$6,318,650	\$16,115,468	\$152,007,709
OPERATING EXPENDITURES				
General Government	\$18,511,836	\$	\$	\$18,511,836
Police Protection	28,237,569			28,237,569
Fire Protection	14,343,530			14,343,530
Other Protection	1,593,466			1,593,466
Regulatory Services & Parking	2,796,942			2,796,942
Community Services Administration	1,042,525			1,042,525
Culture & Heritage	2,085,880			2,085,880
Parks. Recreation & Environment	21,280,485	-		21,280,485
Engineering & Public Works	15,401,908	3,356,114	9,354,209	28,112,231
Port of Nanaimo Centre	5,588,883			5,588,883
General Revenue	4,649,368			4,649,368
Annual Operating Expenditures	\$115,532,392	\$3,356,114	\$9,354,209	\$128,242,715
Surplus Before Projects and Transfers to Reserves	\$14,041,199	\$2,962,536	\$6,761,259	\$23,764,994
Funding for Projects	\$7,028,034		\$130,000	\$7,158,034
Transfer to Reserves (funding for future year projects)	\$7,013,165	\$2,962,536	\$6,631,259	\$16,606,960
Net	-	-		



CHAPTER 5 - FIVE YEAR OPERATING PLAN OVERVIEW

2016 - 2020 Financial Plan

Introduction

Business Units - City Divisions, Departments and Sections:

In addition to the City Manager's Office, the City is organized into two main divisions: Corporate Services and Community Services. Each Division is led by a General Manager. The Corporate Services Division includes the following departments: Human Resources, Community Development, Finance and Purchasing, and Information Technology and Legislative Services. The Community Services Division

includes the following departments: Engineering and Public Works, Social and Protective Services, Parks, Recreation and Environment and Culture and Heritage. The Engineering and Public Works department is also responsible for the Sanitary Sewer and Waterworks utilities. Departments are then organized into sections focused on specific service delivery functions.

2016 Operating Budget

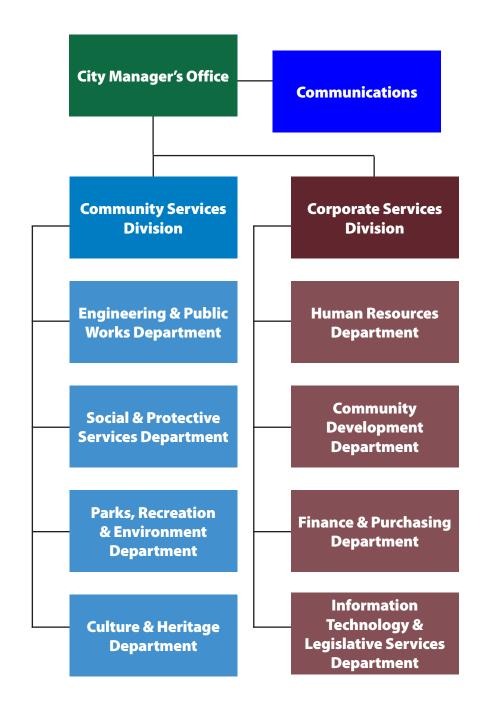
The following sections will provide more detailed information on the City Manager's Office, the Corporate Services Division and Departments, and the Community Services Division, Departments and Sections. The information includes:

- Overview
- Annual Operating Expenditure and Revenues Budgets
- 2016 Goals and Objectives



City of Nanaimo Five-Year Financial Plan 2016-2020 - DRAFT

City of Nanaimo Organization Structure



Employee Base - Full Time Equivalent (FTE) Analysis

The City of Nanaimo budgets for full staff complement in all departments. The only exception is for RCMP members, where 96% of the projected contract cost is budgeted due to the history of vacancies and to minimize surplus.

The City underwent a significant reorganization at the end of 2013. Departments were re-organized to bring about a change in corporate culture to better align with The Strategic Plan, reduce costs and improved communications. A new Culture and Heritage department was created and resources reallocated from other departments. A new Social and Protective Services department was created to bring together Social Planning, Police, Fire, Bylaw and Emergency Planning resources and functions. Information Technology and Legislative Services were combined into one department. Environmental Services merged with Parks and Recreation. The final construction and commissioning phase of the new Water Treatment Plant is nearly completed. The new facility will go into services in 2016.

In June 2015, the Central Island 911 Partnership, which includes the City of Nanaimo, the Regional District of Nanaimo and the Cowichan Valley Regional District, changed the service delivery model for 911 Public Safety Answering Point (PSAP) services. The services had been provided by a combination of RCMP and municipal staff located in the Police Operations Building. The Central Island 911 Partnership entered into a contract with Emergency Communications for British Columbia (EComm 911) located in Vancouver to provide PSAP services effective November 2015. Dispatch and communications for Central Vancouver Island fire departments continues to be provided by 911FireComm located in Fire Station #1.







City of Nanaimo Five-Year Financial Plan 2016-2020 - DRAFT

City of Nanaimo Full Time Equivalents (FTEs) by Department

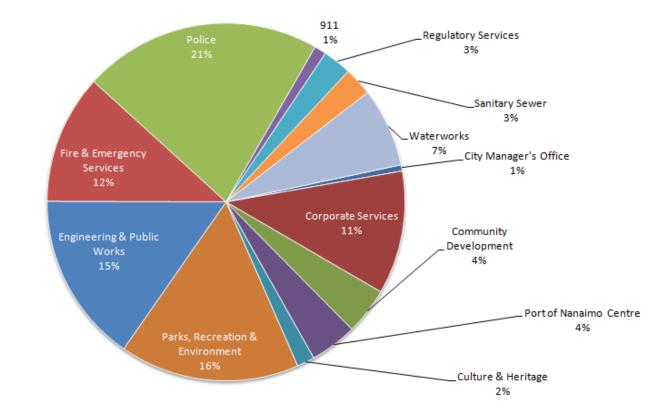
Engineering and Public Works Department includes Sanitary Sewer and Waterworks Utilities.

	2012	2013	2014	2015	2016
City Administration	2.0	2.0	5.0	5.0	5.0
Corporate Services Division					
Corporate Services	79.7	79.6	77.7	77.7	78.7
Strategic Relationship	1.0	1.0			
Development Services	67.0	71.5			
Community Development			50.0	50.0	50.0
Community Services Division					
Administration			3.0	3.0	3.0
Culture & Heritage			4.0	4.0	4.0
Parks, Recreation & Environment	136.5	135.5	129.9	129.8	130.6
Social & Protective Services					
Administration			2.0	2.0	2.0
Regulatory Services			14.0	13.0	13.0
911 Services	14.8	15.0	16.0	16.0	10.0
Fire Services	96.8	96.8	96.8	95.8	95.8
Emergency Services	1.0	1.0	1.0	1.0	1.0
Police Services					
Municipal	61.9	62.9	64.0	63.9	64.9
RCMP Members	140.0	140.0	140.0	140.0	144.0
Engineering & Public Works	143.0	143.0	142.0	146.0	148.0
	743.7	748.3	745.4	747.2	750.0

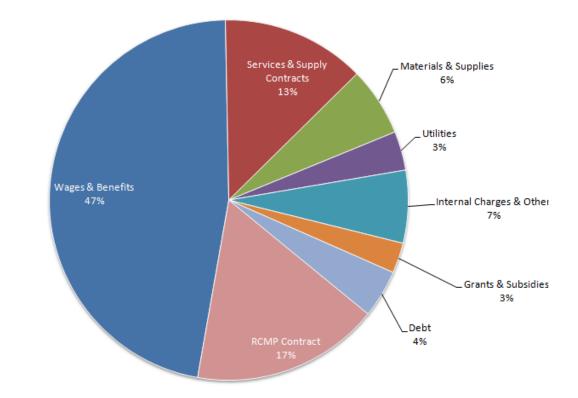
enue Expenditures and Library Expenditures)

	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURES (\$)							
City Manager's Office	699,230	730,600	737,101	750,094	765,695	781,680	798,047
Corporate Services	13,132,563	15,405,584	14,611,717	14,951,858	15,400,099	15,507,670	15,787,941
Community Development	5,185,419	5,389,001	5,516,532	5,628,730	5,746,151	5,866,899	5,990,304
Port of Nanaimo Centre	5,483,634	5,557,208	5,588,883	5,699,266	5,812,973	5,930,110	6,050,798
Culture & Heritage	1,839,234	2,035,059	2,085,880	2,143,416	2,183,861	2,225,461	2,263,829
Parks, Recreation & Environment	20,681,264	20,759,913	21,280,485	21,713,642	22,161,367	22,620,064	23,041,453
Engineering & Public Works	19,414,390	20,303,641	20,163,438	21,052,425	21,477,685	21,912,196	22,356,179
Fire & Emergency Services	14,742,697	13,970,234	15,320,185	16,164,027	17,195,384	18,008,650	18,544,199
Police	24,071,493	27,089,161	28,237,569	29,855,587	31,851,256	33,354,038	34,313,395
911	1,676,087	1,775,240	1,405,513	1,433,877	1,462,833	1,492,397	1,522,584
Regulatory Services	3,007,369	3,493,535	3,397,569	3,320,419	3,382,102	3,445,210	3,509,754
Sanitary Sewer	3,168,111	3,296,696	3,356,114	3,372,931	3,449,129	3,527,315	3,607,541
Waterworks	7,431,551	8,671,540	9,354,209	9,464,610	9,687,841	9,919,322	10,159,487
Total Annual Expenditures	120,533,042	128,477,412	131,055,195	135,550,882	140,576,376	144,591,012	147,945,511
Internal Cost Allocations	(5,557,521)	(5,801,361)	(5,443,090)	(5,552,360)	(5,664,304)	(5,778,119)	(5,894,219)
Internal Charges to Asset Renewal Reserves	(1,939,408)	(1,487,356)	(2,018,758)	(2,089,350)	(2,164,819)	(2,247,292)	(2,335,379)
Net Expenditures After Allocations and Charges	113,036,113	121,188,695	123,593,347	127,909,172	132,747,253	136,565,601	139,715,913
Staffing (FTEs) - Municipal	605.3	607.1	605.9	616.9	626.9	627.9	627.9
Staffing (FTEs) - RCMP	140.0	140.0	144.0	147.0	152.0	156.0	156.0
Cost Per Capita	\$1,271.94	\$1,345.66	\$1,354.23	\$1,382.98	\$1,416.33	\$1,437.82	\$1,451.55

2016 Operating Expenditures by Department



2016 Operating Expenditures by Cost Type



City Manager's Office

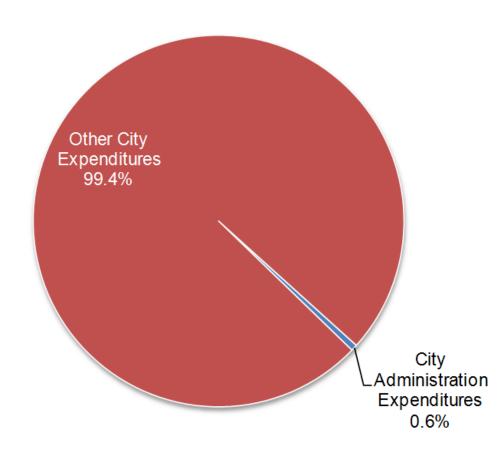
Description and Level of Service

The City Manager's Office serves Council directly and acts as the primary connection between staff and City Council. This office provides direction for staff recommendations that reflect relevant facts, options and professional opinion pertaining to issues considered by Council.

The City Manager's Office takes the lead role in managing the implementation of the policy direction which has been established by Council. As Chief Administrative Officer, the City Manager is the senior staff leader and accordingly, provides

managerial leadership, control and direction to all City departments and operations.

Effective 2014, the City Manager's Office also includes the communications function which supports both internal and external City communications. This area is responsible for informing the public of City news via the media and the City website, and provides support in issues management, media relations, marketing and communications to many parts of the City organization.

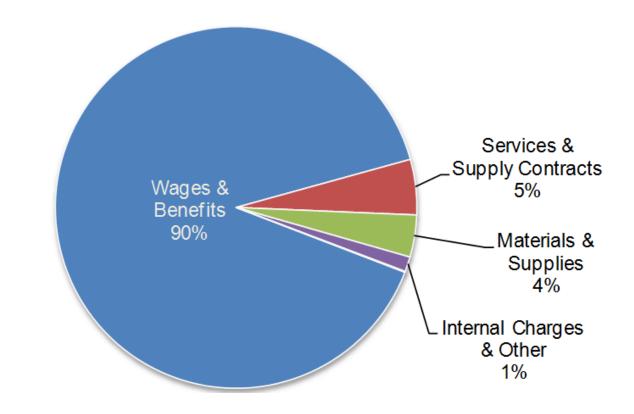


Total Expenditures

Annual Operating Expenditures and Revenues

	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURE SUMMARY							
Wages & Benefits	\$672,357	\$654,626	\$662,505	\$675,756	\$689,270	\$703,056	\$717,116
Services & Supply Contracts	9,941	39,840	36,530	37,261	38,006	38,767	39,539
Materials & Supplies	11,631	26,450	27,710	25,969	26,489	27,020	27,558
Internal Charges & Other	4,800	9,184	9,856	10,598	11,410	12,306	13,293
Grants & Subsidies	500	500	500	510	520	531	541
Total Expenditures	699,230	730,600	737,101	750,094	765,695	781,680	798,047
Revenues Generated	-	-	-	-	-	-	-
Net Operating Costs	\$699,230	\$730,600	\$737,101	\$750,094	\$765,695	\$781 <i>,</i> 680	\$798,047
Staffing (FTEs)	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Cost Per Capita	\$7.87	\$8.11	\$8.08	\$8.11	\$8.17	\$8.23	\$8.29

Annual Operating Expenditures by Type



Corporate Services Division

Corporate Services Division

Community Development | Finance and Purchasing | Human Resources Information Technology and Legislative Services

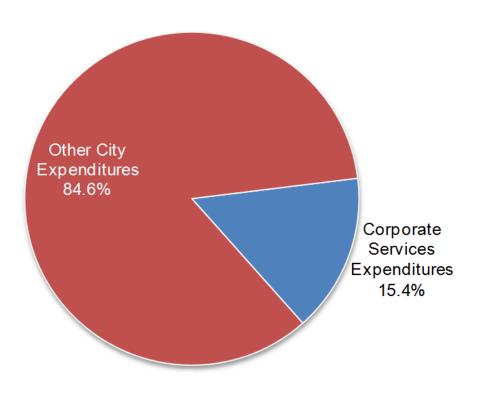
Overview

The Corporate Services Division supports the City's vision by providing support and advice in specialized areas including human resources, community development, financial, and technological and administrative services.

The division provides support to other departments, liaises with intergovernmental organizations, complies with senior government policies and legislations and interacts with the public.

Total Expenditures

Total expenditures include annual operating and all projects expenditures.



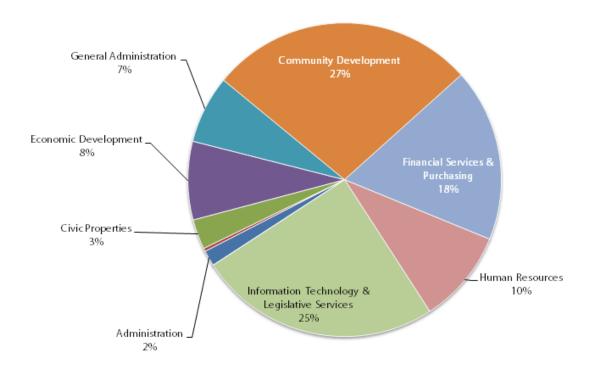
City of Nanaimo Five-Year Financial Plan 2016-2020 - DRAFT

Division is organized in four departments:

- Community Development
- Human Resources
- Financial Services and Purchasing
- Information Technology and Legislative Services

Also included in this division is responsibility for operations and maintenance of City Hall and the Service and Resource Centre, the contract with Nanaimo Economic Development Corporation (NEDC) and the annual grant to Downtown Nanaimo BIA.





Annual Operating Expenditures and Revenues by Department

Administration includes senior leadership resources for the Corporate Services division. Resources include the General Manager, support staff and other office expenses.

Community Development (Grants) includes specific grants such as security checks and permissive tax exemptions.

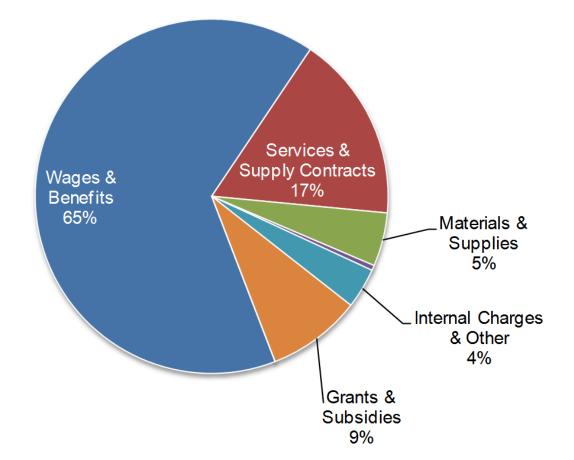
Economic Development includes the contract between the City and the Nanaimo Economic Development Corporation (NEDC) and the grant to the DNBIA. Civic Properties includes costs related to operating and maintenance of City Hall and the Services and Resource Centre buildings.

General Administration includes common costs such as insurance, legal and contingency for contract increases.

Detailed information for the Community Development, Financial Services and Purchasing, Human Resources, Information Technology and Legislative Services departments is provided in next sections of this document.

	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
REVENUES GENERATED	Actual	Duuget	Duuget	Duuget	Duuget	Duuget	Duuget
General Administration	\$156,117	\$110,200	\$95,200	\$96,152	\$97,114	\$98,085	\$99,065
Community Development (Grants)	27,525	27,734	27,734	27,734	27,734	27,734	27,734
Community Development	4,090,653	2,888,009	2,847,500	2,873,905	2,900,576	2,927,512	2,954,714
Financial Services & Purchasing	(170,847)	154,220	152,750	154,278	155,820	157,378	158,951
Human Resources	31,229	10,249	12,314	12,437	12,561	12,687	12,815
Information Technology & Legislative Services	43,930	-	-	· · ·	35,704	· · ·	-
Revenues Total	\$4,178,606	\$3,190,412	\$3,135,498	\$3,164,506	\$3,229,509	\$3,223,396	\$3,253,279
EXPENDITURES							
Administration	\$331,530	\$327,431	\$326,993	\$333,703	\$340,563	\$347,577	\$354,755
Community Development (Grants)	81,740	73,573	66,200	66,644	67,095	67,557	68,029
Civic Properties	611,874	630,496	620,253	633,322	646,710	660,453	674,547
Economic Development	1,741,587	1,625,081	1,627,373	1,629,692	1,632,034	1,632,034	1,632,034
General Administration	887,174	2,467,664	1,408,457	1,426,426	1,454,954	1,484,053	1,513,734
Community Development	5,185,419	5,389,001	5,516,532	5,628,730	5,746,151	5,866,899	5,990,304
Financial Services & Purchasing	3,307,973	3,496,655	3,589,940	3,661,895	3,736,673	3,812,142	3,892,823
Human Resources	1,762,698	1,906,832	1,945,260	1,984,020	2,025,810	2,068,685	2,112,665
Information Technology & Legislative Services	4,407,987	4,877,852	5,027,241	5,216,156	5,496,260	5,435,169	5,539,354
Strategic Relationships	-	-	-	-	-	-	-
Annual Operating Expenditures	\$18,317,982	\$20,794,585	\$20,128,249	\$20,580,588	\$21,146,250	\$21,374,569	\$21,778,245
Internal Cost Allocations	(1,736,428)	(1,768,664)	(1,801,306)	(1,837,332)	(1,874,079)	(1,911,560)	(1,949,792)
Internal Charges to Asset Renewal Reserves	(508,133)	(503,002)	(552,208)	(601,454)	(655,718)	(716,263)	(782,062)
Net Operating Expenditures after Allocations and Charges	\$11,894,815	\$15,332,507	\$14,639,237	\$14,977,296	\$15,386,944	\$15,523,350	\$15,793,112
Staffing (FTEs)	127.7	127.7	128.7	128.7	128.7	128.7	128.7
Cost Per Capita	\$133.85	\$170.25	\$160.40	\$161.94	\$164.17	\$163.44	\$164.08

Annual Operating Expenditures by Type



Community Development

Description and Primary Activities

The Community Development department serves Council and its Committees, residents, businesses, property owners, builders, design professionals, other Departments, senior levels of government and community groups.

The department is organized into six sections:

- Administration
- Building Inspections
- Planning and Design
- Support Services and Business Licensing
- Real Estate
- Engineering and Subdivision

Administration

- Directs and supports the activities of the Department
- Provides advice to Council on all matters related to the Planning and Development of the Community
- Ensures that the Department's goals and objectives are consistent with Council policy, plans and direction
- Monitors and establishes Department policies, procedures and practices with a focus on customer service
- Supports the work of the Planning and Transportation Advisory Committee

Building Inspections

- Promotes liveability, fire, health and life-safety standards in the community
- Reviews permit applications and conducts inspections within a framework of municipal policies and land use regulations and the BC Building Code



City of Nanaimo Five-Year Financial Plan 2016-2020 - DRAFT

Planning and Design

- Implementation of policy and programs identified in the City's Official Community Plan 'planNanaimo' •
- Reviews OCP amendments rezonings, development permits, development variance permits, along • with business, liquor and waste stream management licence applications
- Supports the work of the Design Advisory Panel and the Board of Variance •

Real Estate

- Develop strategies and policies for land acquisition and dispositions •
- Guides decisions related to sale and acquisition of municipally-owned lands •
- Represent the City in property negotiations ٠
- Ensure property transactions comply with relevant statutes, regulations and policies •

Engineering and Subdivision

- Review development applications including construction of both private infrastructure and City • infrastructure (developer contributed)
- Establish subdivision requirements and review applications •
- Administer collection of Development Cost Charges •
- Implement the Urban Forest Strategy and regulate tree removal ٠

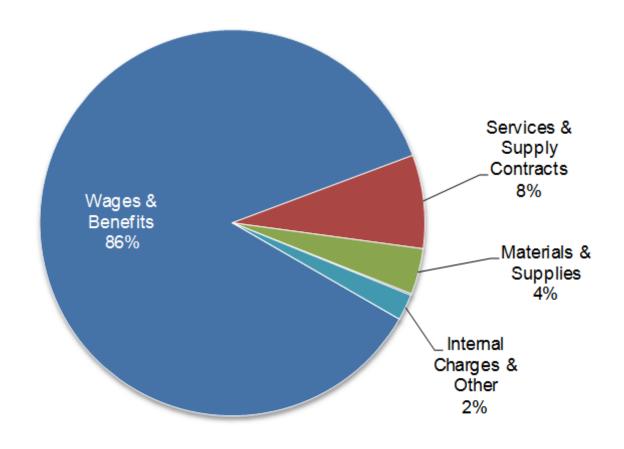
2016 Proposed Initiatives

- South Downtown Waterfront (SDW) Master Plan
- Waterfront Trail Study
- Liquor Control Strategy Update
- Parking Bylaw Review
- Climate Adaption Plan
- Town Centre Structure Plan Hospital
- Contribute to DCC Review
- Complete Design Guidelines 2016 Review
- Complete Goals and Progress Review of Official Community Plan

Annual Operating Expenditures and Revenues

	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURE SUMMAR	Y						
Wages & Benefits	\$4,470,805	\$4,645,205	\$4,742,314	\$4,837,158	\$4,933,902	\$5,032,581	\$5,133,230
Services & Supply Contracts	414,736	408,887	433,477	441,797	450,277	458,935	467,761
Materials & Supplies	163,230	211,850	212,922	214,113	217,715	221,404	225,157
Utilities	13,760	7,200	7,200	7,344	7,490	7,640	7,794
Internal Charges & Other	122,888	115,859	120,619	128,318	136,767	146,339	156,362
Grants & Subsidies	-	-	-	-	-	-	-
Total Expenditures	5,185,419	5,389,001	5,516,532	5,628,730	5,746,151	5,866,899	5,990,304
Revenues Generated	4,090,653	2,888,009	2,847,500	2,873,905	2,900,576	2,927,512	2,954,714
Net Operating Costs	\$1,094,766	\$2,500,992	\$2,669,032	\$2,754,825	\$2,845,575	\$2,939,387	\$3,035,590
Staffing (FTEs)	50.0	50.0	50.0	50.0	50.0	50.0	50.0
Cost Per Capita	\$12.32	\$27.77	\$29.24	\$29.79	\$30.36	\$30.95	\$31.54





Finance and Purchasing

Finance and Purchasing

Description and Primary Activities

The Finance and Purchasing department provide financial support and stewardship that support City departments delivering current and future service levels as directed by Council.

The department is organized into six sections:

- Administration
- Revenue Services
- Accounting Services
- Financial Planning
- Payroll
- Purchasing

Administration

- Provides leadership and coordination of department activities
- Provides financial support and advice to all City departments and Council
- Ensures implementation of policies, programs and other directions of Council and management team

Revenue Services

- Billings and collections
- Accounts receivables
- Maintain property information

Accounting Services

- Reporting and accounting functions including accounts payable
- Cash management
- Annual financial statements

Financial Planning

- Financial planning and analysis •
- Grants administration (application and management of senior government grants)
- Preparation of Five-Year Financial Plan •

Payroll

- Process bi-weekly payroll
- **Reporting requirements** •

Purchasing

- Facilitate purchasing process
- Maintain appropriate and secure inventory •
- Property insurance •

2016 Proposed Initiatives

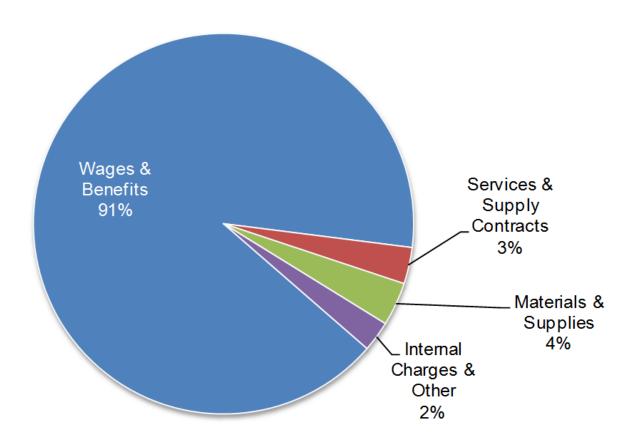
- Contribute to Asset Managerment Update .
- Contribute to DCC Review
- User Rate Review Update
- Review and update financial policies
- Cost allocations analysis



Annual Operating Expenditures and Revenues

	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURE SUMMARY	Y						
Wages & Benefits	\$3,054,502	\$3,166,542	\$3,252,878	\$3,317,937	\$3,384,293	\$3,451,981	\$3,521,018
Services & Supply Contracts	96,303	108,185	111,365	113,593	111,804	114,040	116,322
Materials & Supplies	91,632	132,555	132,790	132,387	137,110	136,671	139,402
Internal Charges & Other	65,536	89,373	92,907	97,978	103,466	109,450	116,081
Total Expenditures	3,307,973	3,496,655	3,589,940	3,661,895	3,736,673	3,812,142	3,892,823
Revenues Generated	(170,847)	154,220	152,750	154,278	155,820	157,378	158,951
Net Operating Costs	\$3,478,820	\$3,342,435	\$3,437,190	\$3,507,617	\$3,580,853	\$3,654,764	\$3,733,872
Staffing (FTEs)	33.7	33.7	33.7	33.7	33.7	33.7	33.7
Cost Per Capita	\$39.15	\$37.11	\$37.66	\$37.93	\$38.21	\$38.48	\$38.79

Annual Operating Expenditures by Type



Finance and Purchasing

Human Resources

Description and Primary Activities

The Human Resources Department provides specialized advice, assistance and support to the organization in the areas of: recruitment and selection; training and employee development; employee and labour relations; job classification, compensation and benefits; health and safety; and disability management. The Department also plays a key role in supporting employee wellness and social activities, as well as honouring our long-serving employees and retirees.

Core Services

- Recruiting, re-training and developing employees •
- Employee orientation and recognition •
- **Employee and labour relations** •
- Promoting and supporting a safe, healthy, respectful and productive work environment

2016 Proposed Initiatives

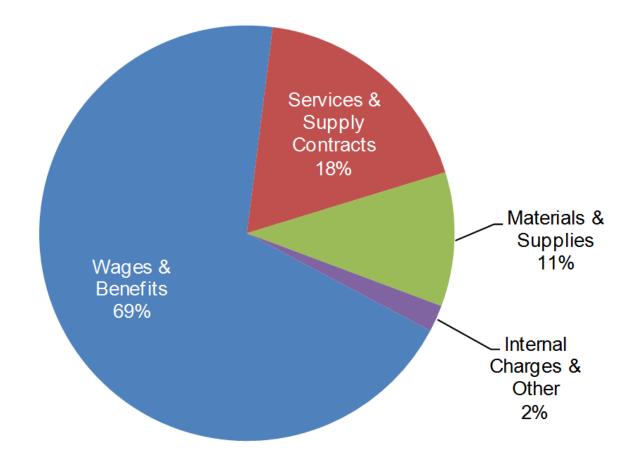
- Begin negotiations with CUPE for the next collective agreement
- Develop online OH&S t raining and improvements to the employee orientation process



Annual Operating Expenditures and Revenues

	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget	
EXPENDITURE SUMMARY								
Wages & Benefits	\$1,228,960	\$1,302,367	\$1,346,292	\$1,373,220	\$1,400,685	\$1,428,699	\$1,457,269	
Services & Supply Contracts	315,737	368,770	355,518	362,629	369,879	377,278	384,821	
Materials & Supplies	179,286	197,379	203,060	204,621	208,556	212,572	216,664	
Internal Charges & Other	38,715	38,316	40,390	43,550	46,690	50,136	53,911	
Total Expenditures	1,762,698	1,906,832	1,945,260	1,984,020	2,025,810	2,068,685	2,112,665	
Revenues Generated	31,229	10,249	12,314	12,437	12,561	12,687	12,815	
Net Operating Costs	\$1,731,470	\$1,896,583	\$1,932,946	\$1,971,583	\$2,013,249	\$2,055,998	\$2,099,850	
Staffing (FTEs)	12.0	12.0	12.0	12.0	12.0	12.0	12.0	
Cost Per Capita	\$19.48	\$21.06	\$21.18	\$21.32	\$21.48	\$21.65	\$21.82	

Annual Operating Expenditures by Type



Information Technology and Legislative Services

The Information Technology and Legislative Services department manages the City's information systems and processes and compliance with statutory regulations.

Description and Primary Activities

The department is organized into three sections:

- Administration
- Information Technology
- Legislative Services

Administration

• Directs the activities of the Department

Information Technology

- Implement and maintain information management infrastructure including the City's Enterprise Resource Planning (ERP) system
- · Facilitate development and implementation of new technology infrastructure
- Responsible for security of systems and information
- Manage asset renewal program for replacement of software, storage, networking and backup infrastructure

Legislative Services

- Responsible for Corporate Office functions including Freedom of Information, Protection of Privacy and claim functions
- Provides Council, staff and public with agenda and meeting materials
- · Maintains records in compliance with statutory requirements
- Administrative support for Mayor and Council
- Facilitates municipal elections, referendums and elector approval processes

City of Nanaimo Five-Year Financial Plan 2016-2020 - DRAFT

2016 Proposed Initiatives

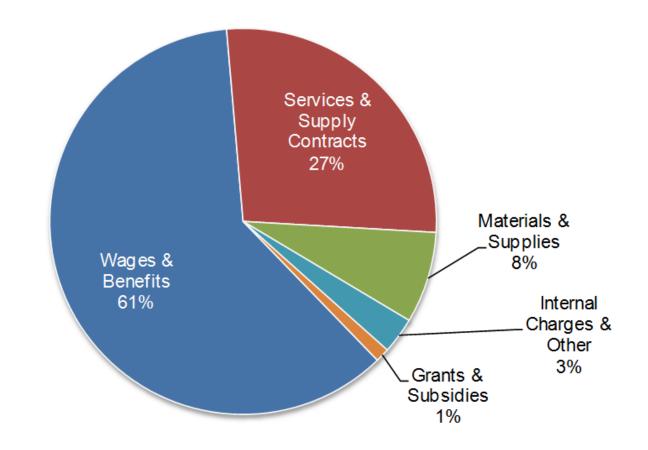
- Network reliability and security upgrades
- Support replacement of Recreation Management Software
- Complete implementation of new City website
- Microsoft Office 2016 implementation .
- Review of current privacy practices and development of Freedom of Information Protection of Privacy . Manual
- Administrative support for the Core Services Steering Committee •
- Improvement to the City's Records Management Program



Annual Operating Expenditures and Revenues

	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURE SUMMARY							
Wages & Benefits	\$2,748,887	\$2,864,428	\$3,059,189	\$3,120,372	\$3,279,500	\$3,246,435	\$3,311,365
Services & Supply Contracts	1,150,568	1,394,325	1,371,712	1,486,867	1,578,503	1,552,984	1,577,870
Materials & Supplies	399,988	404,800	384,885	392,348	416,188	407,723	415,638
Utilities	-	-	-	-	-	-	-
Internal Charges & Other	51,970	155,603	152,759	156,699	161,001	165,738	170,946
Grants & Subsidies	56,574	58,696	58,696	59,870	61,068	62,289	63,535
Total Expenditures	4,407,987	4,877,852	5,027,241	5,216,156	5,496,260	5,435,169	5,539,354
Revenues Generated	43,930	-	-	-	35,704	-	-
Net Operating Costs	\$4,364,057	\$4,877,852	\$5,027,241	\$5,216,156	\$5,460,556	\$5,435,169	\$5,539,354
Staffing (FTEs)	26.0	26.0	27.0	27.0	27.0	27.0	27.0
Cost Per Capita	\$49.11	\$54.16	\$55.08	\$56.40	\$58.26	\$57.22	\$57.55

Annual Operating Expenditures by Type



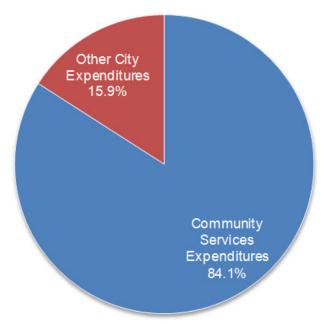
Community Services Division

Social and Protective Services | Parks, Recreation and Environment | Culture and Heritage | Engineering and Public Works | Sanitary Sewer Utility | Waterworks Utility |

Overview

The Community Services Division delivers a wide range of services to the community including fire and police services, transportation, drainage, sanitary sewer and waterworks services, and environmental protection services. The Division is also responsible for providing culture and heritage services, parks and recreation services, and parking and bylaw services.

Delivery of these services requires comprehensive knowledge, planning, operation and maintenance of City infrastructure.



Total Expenditures including Sanitary Sewer and Water Utilities

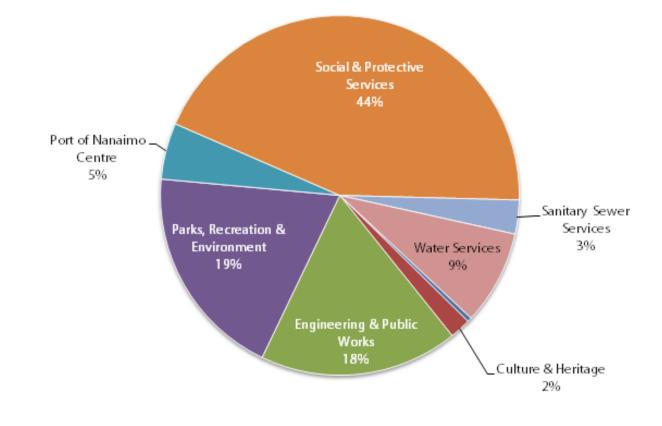
Division is organized in four departments:

- Social and Protective Services
- Parks, Recreation and Environment
- Culture and Heritage
- Engineering and Public Works

City of Nanaimo Five-Year Financial Plan 2016-2020 - DRAFT

Annual Operating Expenditures and Revenues by Department

	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURE SUMMARY	Actual	Duuget	Dudget	Duuget	Duuget	Dudget	Duuget
Wages & Benefits	\$44,832,122	\$46,524,185	\$47,696,012	\$49,064,218	\$50,769,957	\$52,329,822	\$53,566,725
Services & Supply Contracts	31,428,561	34,181,488	35,580,853	37,181,429	38,737,135	40,291,819	41,388,604
Materials & Supplies	6,824,607	6,835,674	7,089,489	7,256,420	7,433,195	7,642,393	7,833,550
Utilities	4,145,446	4,127,844	4,500,852	4,590,766	4,682,472	4,776,016	4,871,439
Internal Charges & Other	7,422,664	7,720,913	7,821,082	7,826,288	7,997,497	8,175,181	8,358,756
Grants & Subsidies	1,594,261	1,872,156	1,853,233	1,758,575	1,783,995	1,810,218	1,832,846
Debt	5,268,168	5,689,968	5,648,324	6,542,504	7,260,180	7,409,314	7,517,299
Total Expenditures	101,515,829	106,952,228	110,189,845	114,220,200	118,664,431	122,434,763	125,369,219
Revenues Generated	39,794,407	40,253,781	41,487,450	43,397,513	45,353,151	47,469,004	49,682,059
Net Operating Costs	\$61,721,422	\$66,698,447	\$68,702,395	\$70,822,687	\$73,311,280	\$74,965,759	\$75,687,160
Internal Cost Allocations	(3,821,093)	(4,032,697)	(3,641,784)	(3,715,028)	(3,790,225)	(3,866,559)	(3,944,427)
Internal Charges to Asset Renewal Reserves	(1,431,275)	(984,354)	(1,466,550)	(1,487,896)	(1,509,101)	(1,531,029)	(1,553,317)
Net Operating Costs after Allocations							
and Charges	\$56,469,054	\$61,681,396	\$63,594,061	\$65,619,763	\$68,011,954	\$69,568,171	\$70,189,416
Staffing (FTEs) - Municipal	472.6	474.5	472.2	483.2	493.2	494.2	494.2
Staffing (FTEs) - RCMP	140.0	140.0	144.0	147.0	152.0	156.0	156.0
Cost Per Capita	\$635.42	\$684.90	\$696.81	\$709.49	\$725.65	\$732.44	\$729.22



Social and Protective Services Department

Overview

The Social and Protective Services department provides services to support a safe and healthy community, through coordination of City resources and external agencies, and through public education. The Social and Protective Services department is organized into the following sections:

- Administration and Social Planning
- Police Services
- Fire Services
- Emergency Management
- 911 Services
- Bylaw, Regulation and Security

2016 Proposed Initiatives

- Fire Service
 - -Complete construction of new fire station on Hammond Bay Road
 - -Implement targeted prevention and public education initiatives in accordance with risk assessment -Continue facilities asset management planning
- Policing Priorities
 - -Crime Prevention
 - *Social Disorder Management
 - * Prolific Offender Management
 - *Violence in Relationships
 - * Drug Enforcement
 - * Liquor Control Strategy

-Youth

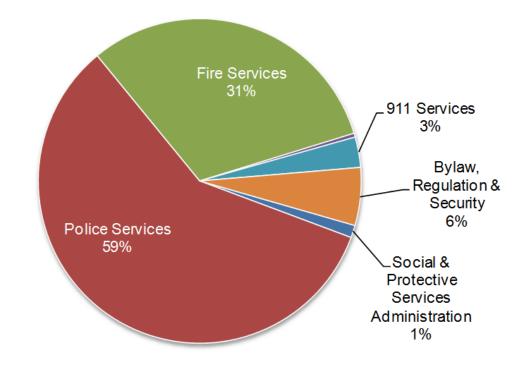
- *Youth Intervention & Diversion
- * Community Partnerships for the Empowerment of Youth
- * School Liaison Program

-Traffic

- * Detection and Prevention to Reduce Impaired Driving
- *Vehicle Operational Safety
- -Waterfront and Marine Safety

City of Nanaimo Five-Year Financial Plan 2016-2020 - DRAFT

	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
REVENUES GENERATED		<u>-</u>	<u>-</u>			- angeo	
Social & Protective Services Administration	\$-	\$-	\$-	\$-	\$-	\$-	\$-
Police Services	812,652	1,718,297	1,761,963	1,769,582	1,777,278	1,793,918	1,810,986
Fire Services	434,412	234,031	231,223	252,586	253,241	278,829	280,158
Emergency Services	4,200		-		-		-
911 Services	1,084,026	1,139,969	821,819	838,255	855,021	872,121	889,563
Bylaw, Regulation & Security	1,917,992	1,865,748	1,833,150	1,851,483	1,869,994	1,888,696	1,907,587
Revenues Total	\$4,253,282	\$4,958,045	\$4,648,155	\$4,711,906	\$4,755,534	\$4,833,564	\$4,888,294
EXPENDITURES							
Social & Protective Services Administration	\$398,022	\$585,239	\$600,627	\$470,345	\$477,730	\$485,294	\$493,035
Police Services	24,071,493	27,089,161	28,237,569	29,855,587	31,851,256	33,354,038	34,313,395
Fire Services	14,494,145	13,726,204	15,068,530	15,906,616	16,932,026	17,739,125	18,268,281
Emergency Services	189,431	182,940	187,953	192,435	197,082	201,924	206,965
911 Services	1,735,207	1,836,330	1,469,215	1,498,853	1,529,109	1,559,998	1,591,537
Bylaw, Regulation & Security	2,609,347	2,908,296	2,796,942	2,850,074	2,904,372	2,959,916	3,016,719
Annual Operating Expenditures	\$43,497,645	\$46,328,170	\$48,360,836	\$50,773,910	\$53,891,575	\$56,300,295	\$57,889,932
Net Operating Expenditures	\$39,244,364	\$41,370,125	\$43,712,681	\$46,062,004	\$49,136,041	\$51,466,731	\$53,001,638
Staffing (FTEs) - Municipal	193.7	191.6	186.7	197.7	207.7	208.7	208.7
Staffing (FTEs) - RCMP	140.0	140.0	144.0	147.0	152.0	156.0	156.0
Cost Per Capita	\$441.60	\$459.37	\$478.96	\$498.03	\$524.25	\$541.86	\$550.65



Administration and Social Planning Section

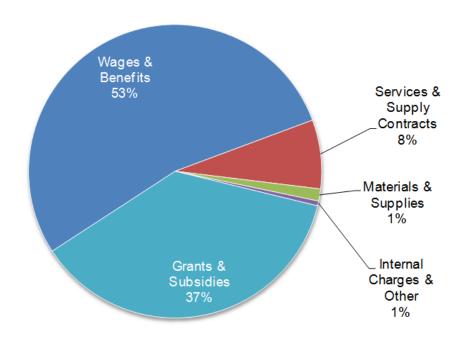
Description and Level of Services

- Provide leadership and coordination of department activities
- Social planning initiatives that include integration with Police and Fire Services and Emergency Management and implementation of harm reduction and social housing goals for the community

Annual Operating Expenditures and Revenues

	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURE SUMMARY	,						
Wages & Benefits	\$302,137	\$305,464	\$321,346	\$327,774	\$334,328	\$341,016	\$347,834
Services & Supply Contracts	16,173	46,855	45,623	45,935	46,254	46,579	46,911
Materials & Supplies	5,836	8,500	7,990	8,150	8,314	8,481	8,649
Internal Charges & Other	1,920	1,920	3,168	3,486	3,834	4,218	4,641
Grants & Subsidies	71,955	222,500	222,500	85,000	85,000	85,000	85,000
Total Expenditures	398,021	585,239	600,627	470,345	477,730	485,294	493,035
Revenues Generated	-	-	-	-	-	-	-
Net Operating Costs	\$398,021	\$585,239	\$600,627	\$470,345	\$477,730	\$485,294	\$493,035
Staffing (FTEs)	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Cost Per Capita	\$4.48	\$6.50	\$6.58	\$5.09	\$5.10	\$5.11	\$5.12

Annual Operating Expenditures by Type



Police Services Section

Description and Level of Service

The City contracts with the RCMP for policing services and the current contract is for 140 members. The City provides the building and support staff for the RCMP. Police Services operates out of the Police Operations Building at 303 Prideaux St.

The RCMP has made "Safe Homes, Safe Communities" its national objective and in conjunction with Council has identified three priorities: Crime Prevention, Youth and Traffic. Each priority has specific strategies/ initiatives.

RCMP members are organized into either a proactive unit or reactive unit. Proactive units include Bike Unit, General Investigations Section (GIS), Municipal Traffic Unit, Youth/School Liaison (SLO) and Community Policing (CPS). Reactive units include General Duty (GD), Serious Crime (SCU), Police Dog Service (PDS) and Forensic Identification Services (FIS).

Municipal support services provide administrative, financial, reception, clerical, custodial and guarding functions.

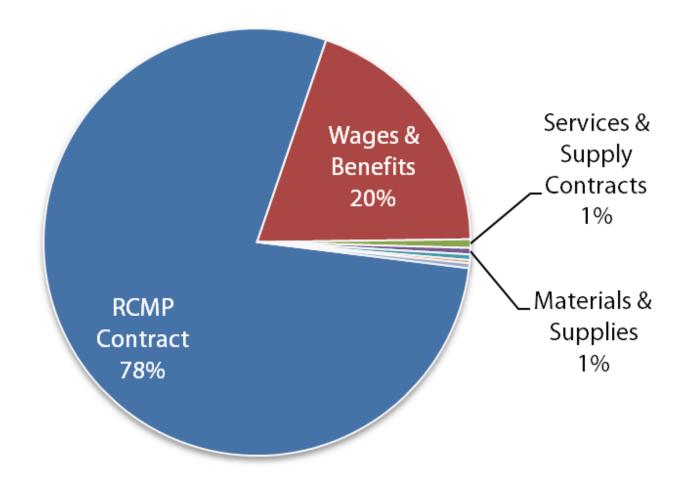
The Financial Plan includes 16 new RCMP members added between 2016 and 2019 and 3 additional municipal support staff added in 2016, 2017 and 2019.



Annual Expenditures and Revenues

	2014	2015 Dudget	2016 Dudget	2017 Budget	2018 Budget	2019 Budget	2020 Dudrot
	Actual	Budget	Budget	Budget	Budget	Budget	Budget
EXPENDITURE SUMMARY							
RCMP Contract	\$18,818,176	\$21,230,678	\$22,111,910	\$23,473,501	\$24,759,504	\$26,039,027	\$26,855,142
Wages & Benefits	4,654,897	5,269,623	5,516,350	5,727,305	5,841,850	6,043,586	6,164,457
Services & Supply Contracts	204,682	184,894	184,419	187,972	191,588	195,286	199,058
Materials & Supplies	119,263	126,620	136,820	139,556	142,346	145,189	148,097
Utilities	111,941	114,600	118,720	121,094	123,516	125,987	128,505
Internal Charges & Other	59,305	59,517	66,121	69,297	72,712	76,404	80,404
Grants & Subsidies	103,229	103,229	103,229	103,229	103,229	103,229	103,229
Debt	-		-	33,633	616,511	625,330	634,503
Total Expenditures	24,071,493	27,089,161	28,237,569	29,855,587	31,851,256	33,354,038	34,313,395
Revenues Generated	812,652	1,718,297	1,761,963	1,769,582	1,777,278	1,793,918	1,810,986
Net Operating Costs	\$23,258,841	\$25,370,864	\$26,475,606	\$28,086,005	\$30,073,978	\$31,560,120	\$32,502,409
Staffing (FTEs) - Municipal	64.0	63.9	64.9	65.9	65.9	66.9	66.9
Staffing (FTEs) - RCMP	140.0	140.0	144.0	147.0	152.0	156.0	156.0
Cost Per Capita	\$261.72	\$281.71	\$290.10	\$303.67	\$320.87	\$332.28	\$337.68

Revenues include the Provincial Traffic Fine Revenue Sharing Grant and building rental income.



Fire Services Section

Description and Level of Service

Nanaimo Fire Rescue provides response to fires, medical and rescue incidents, natural disasters, and provides specialized services such as hazardous materials and technical rescue response. Additionally, community risk reduction is achieved through fire prevention programs and public education.

Four fire stations located throughout the City are operated 24/7 by 81 career firefighters supported by 50 paid on call firefighters. An additional fire station on Protection Island is staffed by on call firefighters.

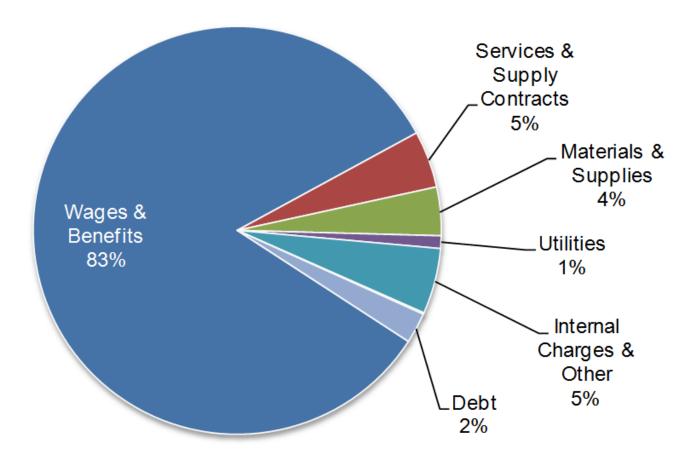
The department is organized into the following Administration, Operations, functional areas:

FireComm, Fire and Loss Prevention and Training and Education.

The Financial Plan includes additional staffing, operating and maintenance expenditures for a new fire station starting in 2017. An additional 20 firefighters will staff the new fire station to provide 24/7 coverage and will be phased in during 2017 and 2018.



	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURE SUMMARY	(
Wages & Benefits	\$12,294,835	\$11,480,914	\$12,492,321	\$13,103,595	\$14,090,704	\$14,832,653	\$15,320,202
Services & Supply Contracts	629,245	596,667	679,298	669,164	682,284	695,671	709,324
Materials & Supplies	517,617	562,135	579,735	582,250	580,871	604,688	603,250
Utilities	134,709	153,000	150,500	153,510	156,580	159,712	162,906
Internal Charges & Other	560,776	570,178	784,533	796,782	809,566	823,253	837,887
Grants & Subsidies	17,500	17,500	17,500	17,850	18,207	18,571	18,943
Debt	339,463	345,810	364,643	583,465	593,814	604,577	615,769
Total Expenditures	14,494,145	13,726,204	15,068,530	15,906,616	16,932,026	17,739,125	18,268,281
Revenues Generated	434,412	234,031	231,223	252,586	253,241	278,829	280,158
Net Operating Costs	\$14,059,733	\$13,492,173	\$14,837,307	\$15,654,030	\$16,678,785	\$17,460,296	\$17,988,123
Staffing (FTEs)	96.8	95.8	95.8	105.8	115.8	115.8	115.8
Cost Per Capita	\$158.21	\$149.81	\$162.57	\$169.25	\$177.95	\$183.83	\$186.88

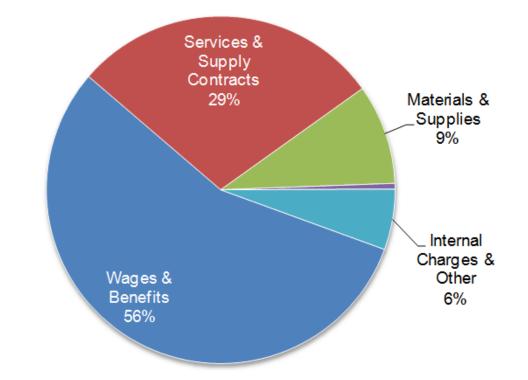


Emergency Management Section

Description and Level of Service

Emergency Management develops and supports the City's ability to respond to major emergency and disaster events. The section also provides public education, manages a volunteer program and supports interagency and interdepartmental initiatives.

	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURE SUMMARY	,						
Wages & Benefits	\$105,660	\$103,270	\$104,743	\$106,838	\$108,974	\$111,154	\$113,377
Services & Supply Contracts	59,137	52,920	54,200	55,284	56,388	57,518	58,667
Materials & Supplies	14,210	16,150	17,450	17,673	17,900	18,131	18,369
Utilities	824	1,000	1,000	1,020	1,040	1,061	1,082
Internal Charges & Other	9,600	9,600	10,560	11,620	12,780	14,060	15,470
Total Expenditures	189,431	182,940	187,953	192,435	197,082	201,924	206,965
Revenues Generated	4,200	-	-	-	-	-	-
Net Operating Costs	\$185,231	\$182,940	\$187,953	\$192,435	\$197,082	\$201,924	\$206,965
Staffing (FTEs)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Cost Per Capita	\$2.08	\$2.03	\$2.06	\$2.08	\$2.10	\$2.13	\$2.15



911 Services Section

Description and Level of Service

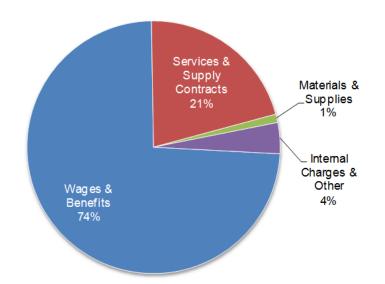
911 services are provided through two functions: 911 Public Safety Answering Point (PSAP) and 911 FireComm. The Central Island 911 Partnership manages 911 services for the City of Nanaimo, the Regional District of Nanaimo and the Cowichan Valley Regional District.

In November 2015, the partnership entered into an agreement with Emergency Communications of British Columbia Incorporated (EComm 911) to provide PSAP services. This new business model resulted in the reduction of 6.2 FTEs.

Funding for 911 services is a cost share between the City (45%), the Regional District of Nanaimo (10%) and the Cowichan Valley Regional District (45%).

	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURE SUMMARY							
Wages & Benefits	\$1,449,829	\$1,533,750	\$1,085,733	\$1,107,447	\$1,129,597	\$1,152,188	\$1,175,232
Services & Supply Contracts	207,027	220,100	309,420	315,608	321,920	328,358	334,926
Materials & Supplies	16,350	18,510	15,680	15,994	16,313	16,640	16,973
Internal Charges & Other	62,001	63,970	58,382	59,804	61,279	62,812	64,406
Total Expenditures	1,735,207	1,836,330	1,469,215	1,498,853	1,529,109	1,559,998	1,591,537
Revenues Generated	1,084,026	1,139,969	821,819	838,255	855,021	872,121	889,563
Net Operating Costs	\$651,181	\$696,361	\$647,396	\$660,598	\$674,088	\$687,877	\$701,974
Staffing (FTEs)	16.0	16.0	10.0	10.0	10.0	10.0	10.0
Cost Per Capita	\$7.33	\$7.73	\$7.09	\$7.14	\$7.19	\$7.24	\$7.29





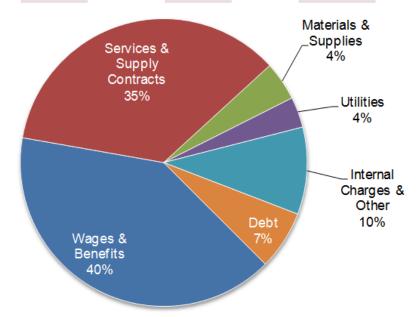
911 Services Section City of Nanaimo Five-Year Financial Plan 2016-2020 - DRAFT

Bylaw, Regulation and Security Section

Description and Level of Service

- Bylaw enforcement that includes; property maintenance, noise, traffic and highways, signs •
- Liaise with RCMP •
- Animal control •
- Maintain parking facilities, parking enforcement •
- Monitor downtown and parkade security, assist other city departments on security issues •

	2014	2015	2016	2017	2018	2019	2020
	Actual	Budget	Budget	Budget	Budget	Budget	Budget
EXPENDITURE SUMMAR	Y						
Wages & Benefits	\$998,561	\$1,106,837	\$1,126,513	\$1,149,044	\$1,172,023	\$1,195,465	\$1,219,372
Services & Supply Contracts	965,891	1,099,448	990,722	1,010,539	1,030,747	1,051,360	1,072,389
Materials & Supplies	113,117	134,290	122,450	124,569	126,728	128,935	131,181
Utilities	87,182	84,177	96,230	98,155	100,116	102,121	104,162
Internal Charges & Other	258,837	297,786	275,269	282,009	289,000	296,277	303,857
Debt	185,758	185,758	185,758	185,758	185,758	185,758	185,758
Total Expenditures	2,609,346	2,908,296	2,796,942	2,850,074	2,904,372	2,959,916	3,016,719
Revenues Generated	1,917,992	1,865,748	1,833,150	1,851,483	1,869,994	1,888,696	1,907,587
Net Operating Costs	\$691,354	\$1,042,548	\$963,792	\$998,591	\$1,034,378	\$1,071,220	\$1,109,132
Staffing (FTEs)	14.0	13.0	13.0	13.0	13.0	13.0	13.0
Cost Per Capita	\$7.78	\$11.58	\$10.56	\$10.80	\$11.04	\$11.28	\$11.52



Overview

The Parks, Recreation and Environment department delivers a wide range of services to the community. The department operates and maintains many facilities, parks and amenities used by residents and local organizations for recreation, wellness and community events.

The department delivers services at three community centres: Beban Centre, Bowen Centre and Oliver Woods Community Centre. Beban Centre also includes Beban Pool with four pools, Frank Crane Arena and Cliff McNabb Arena. The department also manages the Nanaimo Aquatic Centre located on Third Avenue that has three pools, the Nanaimo Ice Centre, also located on Third Avenue with two ice rinks and many parks and sports fields. The department is organized into the following sections:

- Administration and Environment
- Recreation Operations
- Arena Operations
- Aquatic Operations
- Parks Operations
- Facility Planning and Operations
- Community Development
- PR&E Civic Properties

Proposed Initiatives for 2016

- Fees and charges review
- Initiate Linley Valley Park planning process
- Replacement of the registration and point of sale system
- Caledonia Park/Curling Club parking lot renewal
- Parkway Trail Doumont Connector (Jenkins Rd with Parkway Trail) and trail surface rehab
- Jingle Pot West Marsh Management Plan



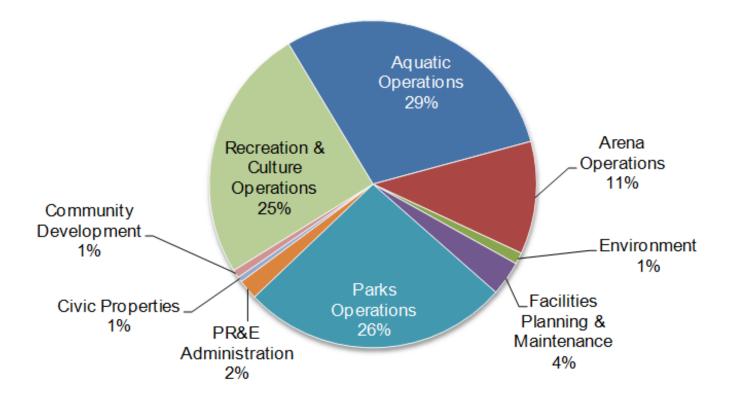
City of Nanaimo Five-Year Financial Plan 2016-2020 - DRAFT

Operating Expenditures and Revenues by Section

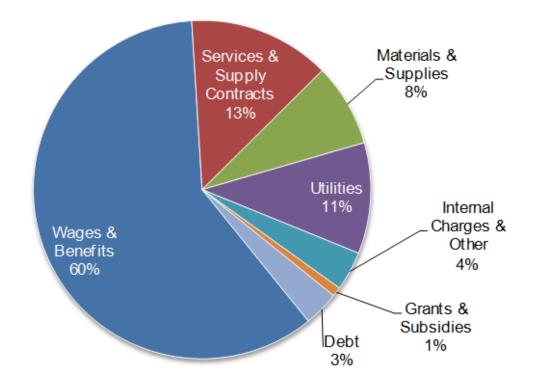
	2014	2015	2016	2017	2018	2019	2020
	Actual	Budget	Budget	Budget	Budget	Budget	Budget
REVENUES GENERATED							÷
Aquatic Operations	\$2,644,721	\$2,655,687	\$2,696,283	\$2,744,973	\$2,795,001	\$2,846,414	\$2,899,269
Arena Operations	1,442,102	1,391,100	1,415,764	1,429,922	1,444,222	1,458,664	1,473,249
Environment	3,961		-	-	-	-	-
Facilities Planning & Maintenance	130,780	67,700	82,920	83,749	84,587	85,433	86,286
Parks Operations	1,402,577	238,905	198,650	200,637	202,642	204,668	206,716
PR&E Administration	47,842	46,000	45,000	45,450	45,905	46,364	46,827
Civic Properties	127,579	120,427	127,878	128,917	129,966	131,026	132,096
Community Development	1,035,396	1,039,101	1,039,101	1,039,101	1,039,101	1,039,101	1,039,101
Recreation & Culture Operations	2,305,593	2,250,583	2,353,978	2,377,520	2,401,289	2,425,307	2,449,559
Revenues Total	\$9,140,551	\$7,809,503	\$7,959,574	\$8,050,269	\$8,142,713	\$8,236,977	\$8,333,103
EXPENDITURES							
Aquatic Operations	\$5,947,564	\$6,128,717	\$6,256,323	\$6,386,666	\$6,524,811	\$6,666,350	\$6,764,136
Arena Operations	2,166,901	2,199,929	2,371,170	2,418,538	2,466,843	2,516,123	2,566,384
Environment	213,963	230,649	243,699	248,813	254,047	259,423	264,936
Facilities Planning & Maintenance	546,623	673,840	726,547	740,912	755,596	770,617	785,974
Parks Operations	5,675,665	5,463,737	5,615,529	5,728,914	5,844,669	5,962,903	6,083,657
PR&E Administration	433,334	423,235	421,826	430,261	438,863	447,645	456,596
Civic Properties	100,670	105,412	106,774	108,795	110,854	112,955	115,099
Community Development	220,610	168,300	172,500	172,812	173,130	173,455	173,786
Recreation & Culture Operations	5,375,935	5,366,095	5,366,117	5,477,931	5,592,554	5,710,593	5,830,885
Annual Operating Expenditures	\$20,681,265	\$20,759,914	\$21,280,485	\$21,713,642	\$22,161,367	\$22,620,064	\$23,041,453
Net Operating Expenditures	\$11,540,714	\$12,950,411	\$13,320,911	\$13,663,373	\$14,018,654	\$14,383,087	\$14,708,350
Staffing (FTEs)	129.9	129.8	130.5	130.5	130.5	130.5	130.5
Cost Per Capita	\$129.86	\$143.80	\$145.96	\$147.73	\$149.57	\$151.43	\$152.81

Operating expenditures exclude transfers to the Facility Development Reserve (Appendix A). Annual transfers to the Facility Development Reserve are approximately \$1 million.

Operating Expenditures by Section



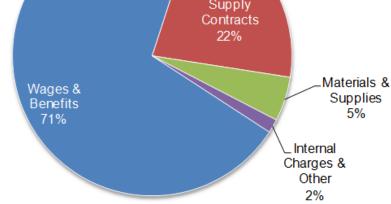
Operating Expenditures by Type



Description and Level of Service

- Leadership and direction for the department •
- Develop policies and programs that support achievement of the vision, goals and objectives identified by the community in the City's Parks, Recreation and Culture Master Plan (2005), Trail Implementation Plan (2007) and through other planning processes
- Marketing and promotion of programs and services •
- **Environmental protections** •

	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURE SUMMARY	Actual	Duuget	Duuget	Duuget	Duuget	Duuget	Duuget
Wages & Benefits	\$495,121	\$476,500	\$471,446	\$480,874	\$490,490	\$500,302	\$510,309
Services & Supply Contracts	108,835	135,950	149,406	152,394	155,439	158,550	161,723
Materials & Supplies	40,032	32,530	34,125	34,792	35,469	36,166	36,871
Internal Charges & Other	3,309	8,904	10,548	11,014	11,512	12,050	12,629
Total Expenditures	647,297	653,884	665,525	679,074	692,910	707,068	721,532
Revenues Generated	51,803	46,000	45,000	45,450	45,905	46,364	46,827
Net Operating Costs	\$595,494	\$607,884	\$620,525	\$633,624	\$647,005	\$660,704	\$674,705
Staffing (FTEs)	6.0	4.0	4.0	4.0	4.0	4.0	4.0
Cost Per Capita	\$6.70	\$6.75	\$6.80	\$6.85	\$6.90	\$6.96	\$7.01
			Services & Supply				

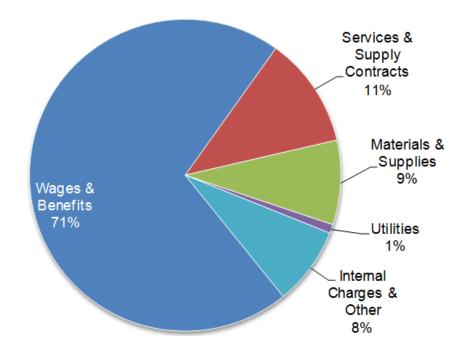


Facilities Planning and Operations Section

Description and Level of Service

- Manage life cycle planning, asset management, capital planning and energy conservation initiatives for all city buildings
- Risk management

	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURE SUMMA	RY	,	<u> </u>	,	2	2	_
Wages & Benefits	\$414,817	\$512,817	\$513,828	\$524,103	\$534,586	\$545,278	\$556,186
Services & Supply Contracts	85,753	89,600	83,543	85,214	86,917	88,656	90,429
Materials & Supplies	38,094	59,383	63,715	64,485	65,271	66,074	66,887
Utilities	4,437	5,200	6,585	6,717	6,851	6,988	7,128
Internal Charges & Other	3,522	6,840	58,876	60,393	61,971	63,621	65,344
Total Expenditures	546,623	673,840	726,547	740,912	755,596	770,617	785,974
Revenues Generated	130,780	67,700	82,920	83,749	84,587	85,433	86,286
Net Operating Costs	\$415,843	\$606,140	\$643,627	\$657,163	\$671,009	\$685,184	\$699,688
Staffing (FTEs)	-	4.5	4.5	4.5	4.5	4.5	4.5
Cost Per Capita	\$4.68	\$6.73	\$7.05	\$7.11	\$7.16	\$7.21	\$7.27

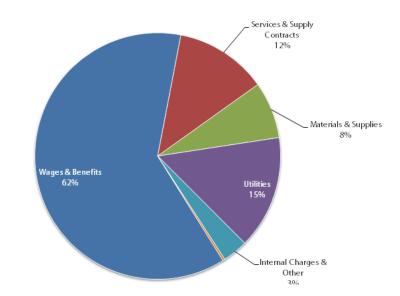


Recreation Operations Section

Description and Level of Service

- Services provided at Beban Social Centre, Bowen Centre, Oliver Woods Community Centre and the • Centennial Building (Beban Campus)
- Provide program registration •
- Provide recreation, wellness, leadership and cultural programs to a wide range of users ٠
- Provide rental space for user groups/organizations •
- Provide custodial and maintenance for facilities •

	2014	2015 Budget	2016 Budget	2017 Pudaat	2018 Budget	2019 Budget	2020 Budarat
	Actual	Budget	Budget	Budget	Budget	Budget	Budget
EXPENDITURE SUMMARY							
Wages & Benefits	\$3,529,287	\$3,447,568	\$3,321,775	\$3,388,211	\$3,455,977	\$3,525,094	\$3,595,592
Services & Supply Contracts	625,610	572,142	650,083	663,089	676,342	689,870	703,663
Materials & Supplies	329,981	436,871	400,593	408,353	416,259	424,336	432,563
Utilities	686,458	700,250	799,750	815,745	832,060	848,700	865,676
Internal Charges & Other	199,979	194,064	178,716	187,029	196,102	206,463	216,939
Grants & Subsidies	4,619	15,200	15,200	15,504	15,814	16,130	16,452
Total Expenditures	5,375,934	5,366,095	5,366,117	5,477,931	5,592,554	5,710,593	5,830,885
Revenues Generated	2,305,593	2,250,583	2,353,978	2,377,520	2,401,289	2,425,307	2,449,559
Net Operating Costs	\$3,070,341	\$3,115,512	\$3,012,139	\$3,100,411	\$3,191,265	\$3,285,286	\$3,381,326
Staffing (FTEs)	31.0	28.8	37.8	37.8	37.8	37.8	37.8
Cost Per Capita	\$34.55	\$34.59	\$33.00	\$33.52	\$34.05	\$34.59	\$35.13

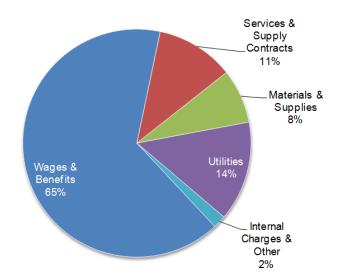


Arena Operations Section

Description and Level of Service

- Services provided at Cliff McNabb Arena and Frank Crane Arena (both Beban Campus) and at the Nanaimo Ice Centre
- Provide public skating and skating lesson programs
- Provide ice rentals to user groups/organizations, including hockey teams/clubs
- Provide seasonal dry floor rentals to user groups/organizations including lacrosse teams
- Provide custodial and maintenance for arena facilities

	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURE SUMN	IARY						
Wages & Benefits	\$1,432,335	\$1,439,511	\$1,546,752	\$1,577,688	\$1,609,239	\$1,641,425	\$1,674,253
Services & Supply Contracts	258,904	205,550	262,430	267,679	273,028	278,489	284,058
Materials & Supplies	121,863	175,050	182,206	185,820	189,504	193,262	197,094
Utilities	321,207	326,000	336,200	342,924	349,783	356,778	363,914
Internal Charges & Other	32,592	53,818	43,582	44,427	45,289	46,169	47,065
Total Expenditures	2,166,901	2,199,929	2,371,170	2,418,538	2,466,843	2,516,123	2,566,384
Revenues Generated	1,442,102	1,391,100	1,415,764	1,429,922	1,444,222	1,458,664	1,473,249
Net Operating Costs	\$724,799	\$808,829	\$955,406	\$988,616	\$1,022,621	\$1,057,459	\$1,093,135
Staffing (FTEs)	13.2	13.2	13.7	13.7	13.7	13.7	13.7
Cost Per Capita	\$8.16	\$8.98	\$10.47	\$10.69	\$10.91	\$11.13	\$11.36

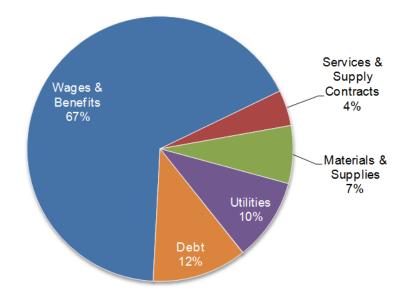


Aquatic Operations Section

Description and Level of Service

- Services provided at Beban Pool (Beban Campus), Nanaimo Aquatic Centre and at Westwood Lake • (summer only)
- Provide public swimming, swimming lesson and wellness programs •
- Provide pool rentals to user groups/organizations, including swim meets ٠
- Provide custodial and maintenance for aquatic facilities and gym facilities •

	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURE SUMMAR	Y						
Wages & Benefits	\$3,856,117	\$4,168,174	\$4,190,978	\$4,274,796	\$4,360,295	\$4,447,498	\$4,536,448
Services & Supply Contracts	283,363	247,232	272,616	278,069	283,629	289,299	295,085
Materials & Supplies	410,372	415,598	441,490	445,713	454,608	463,686	472,943
Utilities	653,516	601,800	630,000	642,600	655,452	668,561	681,933
Internal Charges & Other	5,899	2,118	2,150	2,167	2,184	2,201	2,219
Debt	738,298	693,795	719,089	743,321	768,643	795,105	775,508
Total Expenditures	5,947,565	6,128,717	6,256,323	6,386,666	6,524,811	6,666,350	6,764,136
Revenues Generated	2,644,721	2,655,687	2,696,283	2,744,973	2,795,001	2,846,414	2,899,269
Net Operating Costs	\$3,302,844	\$3,473,030	\$3,560,040	\$3,641,693	\$3,729,810	\$3,819,936	\$3,864,867
Staffing (FTEs)	47.0	47.5	37.9	37.9	37.9	37.9	37.9
Cost Per Capita	\$37.17	\$38.56	\$39.01	\$39.37	\$39.79	\$40.22	\$40.15



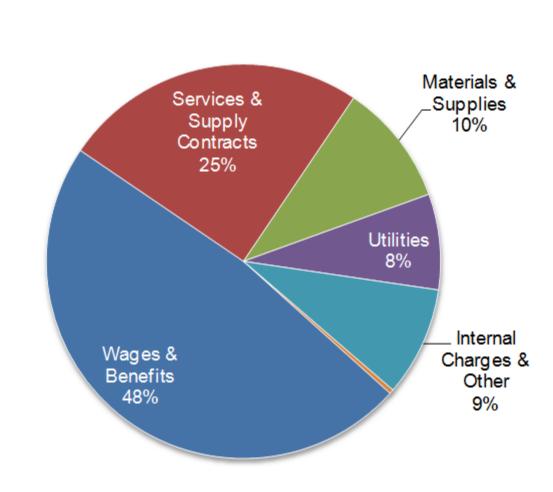
Parks Operations Section

Description and Level of Service

- Maintain
 - -13 City destination parks and over 90 neighbourhood parks
 - -26 sports fields, including 2 artificial turf fields and 30 baseball diamonds
 - -approximately 140 kilometres of trails
 - -631 hectares of parkland
 - -65 playgrounds
 - -2 outdoor amphitheatres
 - -12 dog off-leash parks
- Maintain horticulture areas, including planting beds, planters and trees
- Develop parks and open space plans, including consultation with users •
- Provide facility maintenance .



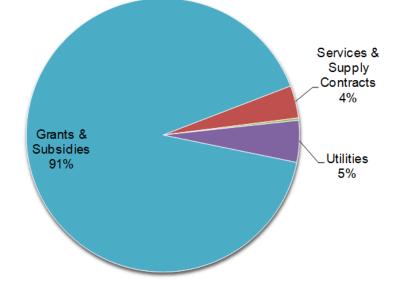
	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURE SUMMA	RY						
Wages & Benefits	\$2,598,057	\$2,635,134	\$2,686,433	\$2,740,193	\$2,795,025	\$2,850,959	\$2,908,009
Services & Supply Contracts	1,631,687	1,448,596	1,400,566	1,428,578	1,457,139	1,486,281	1,516,015
Materials & Supplies	600,315	559,260	563,425	574,506	585,807	597,337	609,092
Utilities	366,646	371,915	440,625	449,438	458,426	467,595	476,948
Internal Charges & Other	474,361	443,232	504,880	516,207	527,880	539,931	552,378
Grants & Subsidies	4,600	5,600	19,600	19,992	20,392	20,800	21,215
Total Expenditures	5,675,666	5,463,737	5,615,529	5,728,914	5,844,669	5,962,903	6,083,657
Revenues Generated	1,402,577	238,905	198,650	200,637	202,642	204,668	206,716
Net Operating Costs	\$4,273,089	\$5,224,832	\$5,416,879	\$5,528,277	\$5,642,027	\$5,758,235	\$5,876,941
Staffing (FTEs)	32.7	31.8	32.7	32.7	32.7	32.7	32.7
Cost Per Capita	\$48.08	\$58.02	\$59.35	\$59.77	\$60.20	\$60.63	\$61.06



Description and Level of Service

- Support community organizations through grant programs, including travel grants, sport tournament grants and an agreement with McGirr Sports Society for the management of McGirr Sports Field
- Operate Live Site screen located in Diana Krall Plaza
- Revenues in this section is annual funding received by the City from the RDN that allows access to sports fields and recreational facilities for users that reside outside the City of Nanaimo but within the boundaries of the Regional District of Nanaimo

	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURE SUMMARY							
Wages	\$2,243	\$-	\$-	\$-	\$-	\$-	\$-
Services & Supply Contracts	10,318	6,600	6,600	6,732	6,867	7,004	7,144
Materials & Supplies	1,194	500	500	510	520	531	541
Utilities	7,355	6,700	8,500	8,670	8,843	9,020	9,201
Grants & Subsidies	199,500	154,500	156,900	156,900	156,900	156,900	156,900
Total Expenditures	220,610	168,300	172,500	172,812	173,130	173,455	173,786
Revenues Generated	1,035,396	1,039,101	1,039,101	1,039,101	1,039,101	1,039,101	1,039,101
Net Operating Revenues	\$814,786	\$870 <i>,</i> 801	\$866,601	\$866,289	\$865,971	\$865,646	\$865,315
Staffing (FTEs)	-	-	-	-	-	-	-
Net Revenues Per Capita	\$9.17	\$9.67	\$9.50	\$9.37	\$9.24	\$9.11	\$8.99



Culture and Heritage

Description and Level of Service

The Culture and Heritage department was created in late 2013 as a result of the City's re-organization and brings together staff and programs that support culture and heritage initiatives.

Conservation Program (2002), the department's role is to facilitate initiatives that celebrate and contribute to Nanaimo's culture and heritage.

Guided by the recently released Cultural Plan for a Creative Nanaimo (2014) and by the Heritage

Proposed Initiatives for 2016

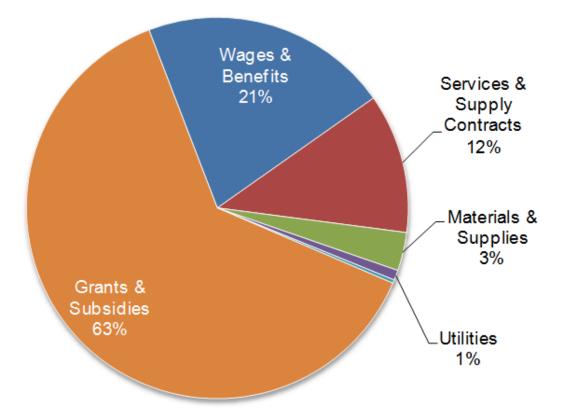
- City wide archeological assessment
- Continue implementing the goals and objectives of the 2014-2020 Cultural Plan for a Creative Environment
- Continue developing and creating new opportunities to foster collaborative working relationships with the community and cultural partners
- Continue to raise awareness of community culture and heritage values and priorities
- Further develop internal engagement awareness and process to ensure ongoing meaningful dialogue with residents

-Continue working with the Port Theatre Society to develop the Community Performing Arts Centre -Participate in the planning of the Canada 150 Celebrations as part of the Canada 150 Steering Committee

- -Completion of updated Heritage Conservation Program
- -Development of Engagement Framework and Engagement Tool Kit
- -Improved interpretive and way finding methodology through multi-medium applications
- -Evaluation and expansion of social media presence for engagement and education opportunities and special events
- -Exploration of a collaborative framework for the culture and heritage sector



	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURE SUMM	ARY						
Wages & Benefits	428,063	434,502	439,223	448,008	456,968	466,108	475,430
Services & Supply Contracts	164,637	163,100	246,950	251,869	256,886	262,002	267,223
Materials & Supplies	47,996	69,330	67,905	69,137	70,392	71,676	72,985
Utilities	15,108	20,200	17,700	18,054	18,415	18,783	19,160
Internal Charges & Other	4,841	5,300	6,048	6,593	7,189	7,845	8,566
Grants & Subsidies	1,178,590	1,342,627	1,308,054	1,349,755	1,374,011	1,399,047	1,420,465
Total Expenditures	1,839,235	2,035,059	2,085,880	2,143,416	2,183,861	2,225,461	2,263,829
Revenues Generated	33,657	46,950	46,500	46,965	47,435	47,909	48,388
Net Operating Costs	\$1,805,578	\$1,988,109	\$2,039,380	\$2,096,451	\$2,136,426	\$2,177,552	\$2,215,441
Staffing (FTEs)	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Cost Per Capita	\$20.32	\$22.08	\$22.35	\$22.67	\$22.79	\$22.93	\$23.02



Engineering and Public Works Department

Overview

Engineering and Public Works provides and maintains a number of essential municipal services and infrastructure including roads, drainage, water, sanitary sewer, solid waste collection and management of the City's fleet.

The Sanitary Sewer Utility is an essential service provided to residents and businesses for the collection of liquid wastes. Sanitary Sewer services are self-financing through user fees. Sanitary sewer treatment is provided by the Regional District of Nanaimo.

The Waterworks Utility is an essential service that provides residents and businesses a supply of high quality, potable water, and at flows and pressures suitable for fire protection. Water services are selffinancing through user fees.

Water infrastructure includes dams, reservoirs, water treatment facilities, supply and distribution mains, and pump and pressure reducing stations.

The new Water Treatment Plant will be fully operational in 2016. The 2016 operating budget include the first full year operating and maintenance expenses.

The Engineering and Public Works department is organized into the following sections:

The Engineering and Public Works department is organized into the following sections:

- Administration and Support Services
- **Engineering Services**
- Transportation (operations)
- Drainage
- Sanitation, Recycling and Cemeteries
- Fleet
- Water
- Sanitary Sewer



Proposed Initiatives for 2016

- Complete Asset Management Update
- Road, drainage, sewer and water infrastructure renewal programs
- Cycling amenities on Bruce, Second Street, Townsite/Holly Ave Area
- Pedestrian amenities, including countdown timers, flashers, at several intersections and new sidewalks
- Drainage capacity upgrade, Victoria Rd Needham to Rainer
- Sanitary sewer capacity upgrade, Millstone Truck Jingle Pot North
- Duplicate supply main, #1 Reservoir to College Park
- Implementation of a Cross Connection Control Program
- Engineering Standards Update
- Seismic Standards Development and Implementation
- Engineering Assurance Procedure Development
- Asset Management (LAMP) Phase 1 & 2 (Service Levels)

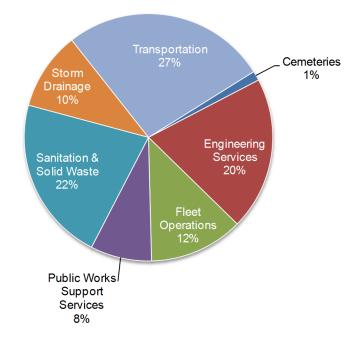
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Operating Expenditures and Revenues by Section (excluding Sanitary Sewer and Water Utilities)

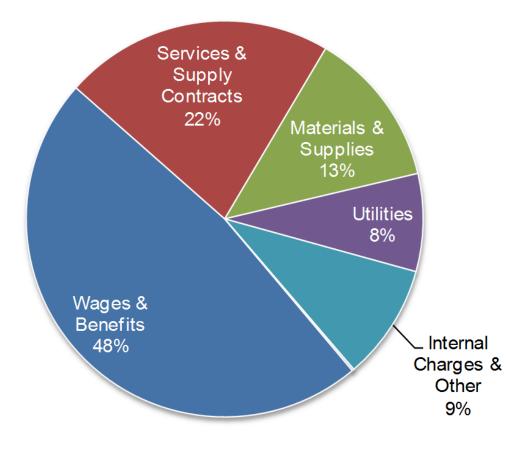
	2014	2015	2016	2017	2018	2019	2020
	Actual	Budget	Budget	Budget	Budget	Budget	Budget
REVENUES GENERATED							
Cemeteries	\$86,106	\$61,500	\$69,900	\$70,599	\$71,305	\$72,018	\$72,738
Engineering Services	9,931	19,000	14,600	14,746	14,893	15,042	15,192
Fleet Operations	24,008	-	-	-	-	-	-
Public Works Support Services	785,545	424,200	424,000	432,240	440,642	449,210	457,947
Sanitation & Solid Waste	3,409,237	3,751,023	3,799,213	3,871,120	3,949,931	4,035,659	4,114,742
Storm Drainage	5,098	48,265	48,265	48,760	49,261	49,766	50,277
Transportation	84,027	72,088	48,784	49,272	57,825	66,704	75,924
Revenues Total	\$4,403,952	\$4,376,076	\$4,404,762	\$4,486,737	\$4,583,857	\$4,688,399	\$4,786,820
EXPENDITURES							
Cemeteries	\$220,494	\$244,565	\$245,264	\$250,170	\$255,171	\$260,274	\$265,480
Engineering Services	3,697,266	4,193,116	3,936,813	3,969,022	4,051,957	4,136,985	4,224,171
Fleet Operations	2,313,465	2,410,842	2,423,537	2,472,416	2,522,761	2,573,746	2,625,757
Public Works Support Services	1,964,751	1,557,839	1,577,814	1,609,938	1,642,774	1,676,361	1,710,710
Sanitation & Solid Waste	3,951,380	4,267,726	4,253,998	4,339,795	4,427,535	4,517,272	4,608,733
Storm Drainage	1,952,961	2,003,833	2,012,527	2,053,201	2,094,721	2,137,131	2,180,436
Transportation	4,893,226	5,189,059	5,271,587	5,906,892	6,022,477	6,140,624	6,261,357
Annual Operating Expenditures	\$18,993,543	\$19,866,980	\$19,721,540	\$20,601,434	\$21,017,396	\$21,442,393	\$21,876,644
Net Operating Expenditures	\$14,589,591	\$15,490,904	\$15,316,778	\$16,114,697	\$16,433,539	\$16,753,994	\$17,089,824
Staffing (FTEs)	113.8	112.8	109.8	109.8	109.8	109.8	109.8
Cost Per Capita	\$164.17	\$172.01	\$167.83	\$174.24	\$175.34	\$176.39	\$177.55

Operating Expenditures by Section (excluding Sanitary Sewer and Water Utilities)



Operating Expenditures by Type

	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURE SUMM		j	<u> </u>	,, , ,,,,,,	j		<i>,</i>
Wages & Benefits	\$9,004,752	\$9,720,014	\$9,392,437	\$9,533,734	\$9,725,045	\$9,920,195	\$10,119,236
Services & Supply Contracts	3,958,981	4,257,892	4,335,512	4,419,674	4,508,057	4,598,224	4,690,186
Materials & Supplies	2,809,527	2,550,634	2,526,990	2,576,924	2,628,066	2,680,474	2,733,852
Utilities	1,421,906	1,480,402	1,574,760	1,606,255	1,638,380	1,671,147	1,704,573
Internal Charges & Other	1,763,345	1,830,134	1,861,266	1,904,383	1,949,366	1,995,532	2,043,303
Grants & Subsidies	5,750	1,500	-	-	-	-	-
Debt	29,281	26,404	30,575	560,464	568,482	576,821	585,494
Total Expenditures	18,993,542	19,866,980	19,721,540	20,601,434	21,017,396	21,442,393	21,876,644
Revenues Generated	4,403,950	4,376,076	4,404,762	4,486,737	4,583,857	4,688,399	4,786,820
Net Operating Costs	\$14,589,592	\$15,490,904	\$15,316,778	\$16,114,697	\$16,433,539	\$16,753,994	\$17,089,824
Staffing (FTEs)	113.8	112.8	109.8	109.8	109.8	109.8	109.8
Cost Per Capita	\$164.17	\$172.01	\$167.83	\$174.24	\$175.34	\$176.39	\$177.55

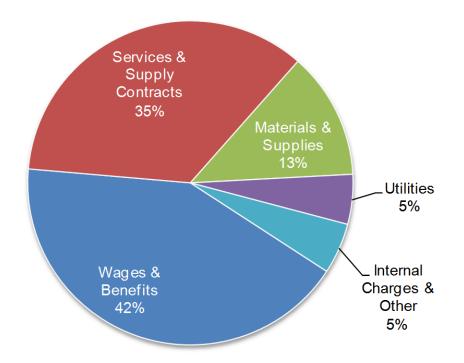


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Description and Level of Service

- Provide leadership and coordination of department's activities •
- Liaise with other departments and external stakeholders •
- Provide internal and public support and response services including reception, dispatch and records ٠ management

	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2019 Budget
EXPENDITURE SUMMAR				<u> </u>	.	,	,
Wages & Benefits	\$754,656	\$688,910	\$665,884	\$679,844	\$694,084	\$708,611	\$723,425
Services & Supply Contracts	505,370	548,583	554,670	565,763	577,078	588,619	600,393
Materials & Supplies	557,796	172,100	199,290	202,507	205,786	209,135	212,548
Utilities	72,648	73,200	78,200	79,764	81,359	82,986	84,647
Internal Charges & Other	74,281	75,046	79,770	82,060	84,467	87,010	89,697
Total Expenditures	1,964,751	1,557,839	1,577,814	1,609,938	1,642,774	1,676,361	1,710,710
Revenues Generated	785,545	424,200	424,000	432,240	440,642	449,210	457,947
Net Operating Costs	\$1,179,206	\$1,133,639	\$1,153,814	\$1,177,698	\$1,202,132	\$1,227,151	\$1,252,763
Staffing (FTEs)	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Cost Per Capita	\$13.27	\$12.59	\$12.64	\$12.73	\$12.83	\$12.92	\$13.02



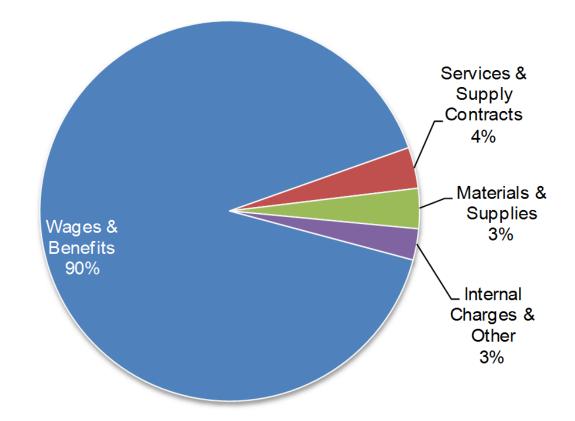
Engineering Services Section

Description and Level of Service

- Develop and implement the City's Transportation Master Plan •
- Prepare and manage the City's long range infrastructure programs and plans
 - -Prepare detailed capital and operating project plans for the City's five-year financial plan -Prepare and manage the City's long range water supply infrastructure program and plans
- Design for municipal infrastructure •
- Administer and manage the delivery of the Engineering and Public Works projects ٠
- Manage the City's GIS system •
- Identify and administer studies and/or investigative work on City infrastructure •
- Liaise with stakeholders and other City departments •
- Monitor water supply and quality

An allocation of Engineering Services expenditures is made to the Sanitary Sewer and Waterworks utilities. Expenditures below are before allocation.

	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURE SUMMA	RY						
Wages & Benefits	\$3,305,809	\$3,791,031	\$3,559,380	\$3,583,374	\$3,655,039	\$3,728,141	\$3,802,704
Services & Supply Contracts	129,471	130,963	137,921	138,129	140,893	143,709	146,584
Materials & Supplies	146,890	153,730	134,904	137,133	139,400	141,719	144,082
Internal Charges & Other	114,346	115,892	104,608	110,386	116,625	123,416	130,801
Grants & Subsidies	750	1,500	-	-	-	-	-
Total Expenditures	3,697,266	4,193,116	3,936,813	3,969,022	4,051,957	4,136,985	4,224,171
Revenues Generated	9,931	19,000	14,600	14,746	14,893	15,042	15,192
Net Operating Costs	\$3,687,335	\$4,174,116	\$3,922,213	\$3,954,276	\$4,037,064	\$4,121,943	\$4,208,979
Staffing (FTEs)	47.0	46.0	43.0	43.0	43.0	43.0	43.0
Cost Per Capita	\$41.49	\$46.35	\$42.98	\$42.75	\$43.07	\$43.40	\$43.73



Engineering Services Section

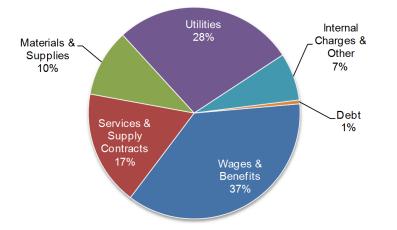
Transportation Section (operations)

Description and Level of Service

- Provide maintenance and repair services for the City's transportation network including roads, bridges, traffic signals and street lighting
- Manage maintenance program for City boulevards
- Manufacture and install street signage, road markings, banners and seasonal lighting program
- Provide repairs to City sidewalks, curbs and cycling paths
- Provide emergency operational services for snow clearing and ice control
- Graffiti removal program

Operating Expenditures and Revenues

	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURE SUMMAR		Duuget	Duuget	Duuget	Duuget	Duuget	Duuget
Wages & Benefits	\$1,782,369	\$1,936,927	\$1,935,093	\$1,973,795	\$2,013,268	\$2,053,537	\$2,094,606
Services & Supply Contracts	965,483	906,045	925,546	944,059	962,936	982,196	1,001,842
Materials & Supplies	446,719	577,900	542,810	553,666	564,738	576,036	587,551
Utilities	1,315,113	1,372,552	1,455,610	1,484,722	1,514,416	1,544,705	1,575,600
Internal Charges & Other	354,261	369,231	381,953	390,186	398,637	407,329	416,264
Debt	29,281	26,404	30,575	560,464	568,482	576,821	585,494
Total Expenditures	4,893,226	5,189,059	5,271,587	5,906,892	6,022,477	6,140,624	6,261,357
Revenues Generated	84,027	72,088	48,784	49,272	57,825	66,704	75,924
Net Operating Costs	\$4,809,199	\$5,116,971	\$5,222,803	\$5,857,620	\$5,964,652	\$6,073,920	\$6,185,433
Staffing (FTEs)	22.0	22.0	22.0	22.0	22.0	22.0	22.0
Cost Per Capita	\$54.12	\$56.82	\$57.23	\$63.33	\$63.64	\$63.95	\$64.26



City of Nanaimo Five-Year Financial Plan 2016-2020 - DRAFT

Sanitation and Recycling Section

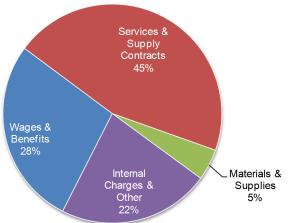
Description and Level of Service

- Provide residential solid waste collection including weekly collection of food waste, bi-weekly collection of residential garbage and recyclables
- Provide public education and promotion for the 3 Rs Reduce, Reuse, Recycle
- Provide downtown street and sidewalk sweeping program

Beginning May 19, 2014, the City entered into an agreement with Multi Material British Columbia (MMBC) where MMBC collects recyclable materials from households and the City received a fee per household for the materials. Garbage user fees in 2014 were reduced.

On October 26, 2015, Council approved the implementation of two automated routes in 2016. Changes to operating expenditures are not included below. These changes will be incorporated, with any other changes directed by Council during the budget review process, in the final 2016 – 2020 Financial Plan.

	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURE SUMMAR	RY	-	-	-			
Wages & Benefits	\$1,142,326	\$1,227,108	\$1,176,863	\$1,200,400	\$1,224,407	\$1,248,895	\$1,273,872
Services & Supply Contracts	1,723,600	1,897,589	1,925,583	1,964,095	2,003,375	2,043,444	2,084,309
Materials & Supplies	198,323	210,599	196,806	201,374	206,257	211,462	216,702
Internal Charges & Other	887,131	932,430	954,746	973,926	993,496	1,013,471	1,033,850
Total Expenditures	3,951,380	4,267,726	4,253,998	4,339,795	4,427,535	4,517,272	4,608,733
Revenues Generated	3,409,237	3,751,023	3,799,213	3,871,120	3,949,931	4,035,659	4,114,742
Net Operating Costs	\$542,143	\$516,703	\$454,785	\$468,675	\$477,604	\$481,613	\$493,991
Staffing (FTEs)	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Cost Per Capita	\$6.10	\$5.74	\$4.98	\$5.07	\$5.10	\$5.07	\$5.13



Fleet Services Section

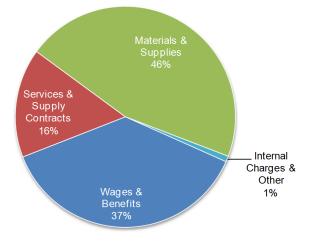
Description and Level of Service

- Maintenance and repair of City's fleet and equipment
- Prepare and manage life-cycle fleet replacement plan, including identifying strategies to maximize efficiency and effectiveness of the City's fleet
- Provide training and education to users on efficient operation of city vehicles

Operating Expenditures

Fleet costs are recovered from departments through monthly or hourly fleet charges (internal charges). Fleet charge calculations for each unit include replacement cost, annual operating and maintenance costs and insurance. Fleet charges in excess of annual operating, maintenance and insurance costs are transferred to the Equipment Replacement Reserve. The Equipment Replacement Reserve fully funds the fleet replacement program.

	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURE SUMMA	RY						
Wages & Benefits	\$872,656	\$900,087	\$906,288	\$924,414	\$942,902	\$961,760	\$980,995
Services & Supply Contracts	274,789	385,980	388,310	396,076	403,996	412,078	420,317
Materials & Supplies	1,146,036	1,106,150	1,108,580	1,130,752	1,153,366	1,176,434	1,199,963
Utilities	-	-	-	-	-	-	-
Internal Charges & Other	19,985	18,625	20,359	21,174	22,497	23,474	24,482
Total Expenditures	2,313,466	2,410,842	2,423,537	2,472,416	2,522,761	2,573,746	2,625,757
Revenues Generated	24,008	-	-	-	-	-	-
Net Operating Costs	\$2,289,458	\$2,410,842	\$2,423,537	\$2,472,416	\$2,522,761	\$2,573,746	\$2,625,757
Staffing (FTEs)	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Cost Per Capita	\$25.76	\$26.77	\$26.55	\$26.73	\$26.92	\$27.10	\$27.28

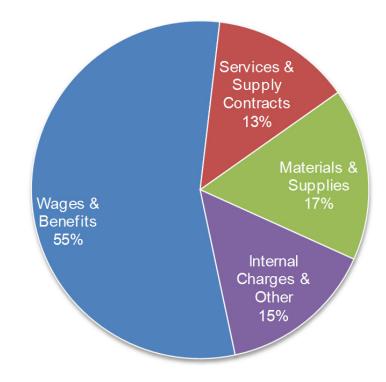


Drainage Utility Section

Description and Level of Service

- Develop and provide maintenance programs including: main flushing, catchbasin and inlet/outlet • structures cleaning, and brushcutting to support the effectiveness of the City's drainage infrastructure
- Repair services for the City's drainage infrastructure ٠
- Investigate and resolve flooding issues •

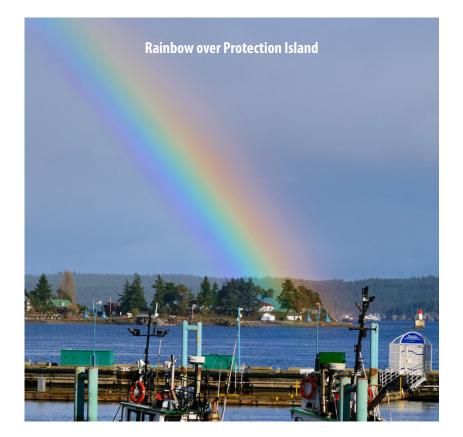
	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURE SUMMA	RY						
Wages & Benefits	\$1,111,781	\$1,135,273	\$1,110,747	\$1,132,961	\$1,155,620	\$1,178,732	\$1,202,306
Services & Supply Contracts	245,159	256,275	269,100	274,482	279,969	285,572	291,282
Materials & Supplies	306,564	316,675	332,350	338,997	345,775	352,689	359,745
Internal Charges & Other	289,457	295,610	300,330	306,761	313,357	320,138	327,103
Total Expenditures	1,952,961	2,003,833	2,012,527	2,053,201	2,094,721	2,137,131	2,180,436
Revenues Generated	5,098	48,265	48,265	48,760	49,261	49,766	50,277
Net Operating Costs	\$1,947,863	\$1,955,568	\$1,964,262	\$2,004,441	\$2,045,460	\$2,087,365	\$2,130,159
Staffing (FTEs)	12.8	12.8	12.8	12.8	12.8	12.8	12.8
Cost Per Capita	\$21.92	\$21.71	\$21.52	\$21.67	\$21.82	\$21.98	\$22.13



Sanitary Sewer Utility

Description and Level of Service

- Operate and maintain sanitary sewer infrastructure including: video inspection, main flushing, and manholes/structures cleaning
- Repair mains and connections identified through inspections/flushing programs
- Operate and maintain lift stations including mechanical and electrical controls and telemetry communications systems
- Install new services for residential, institutional and commercial customers



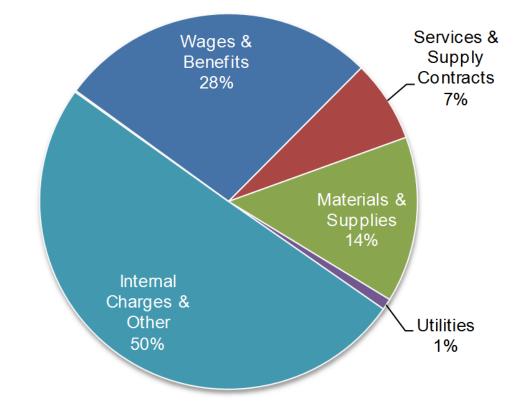
City of Nanaimo Five-Year Financial Plan 2016-2020 - DRAFT

Operating Expenditures and Revenues

Net revenues are transferred to sanitary sewer utility reserves. Sanitary sewer infrastructure renewal is funded from reserves.

Internal charges include an allocation of Corporate Services and Engineering Services expenditures that benefit delivery of sanitary sewer services.

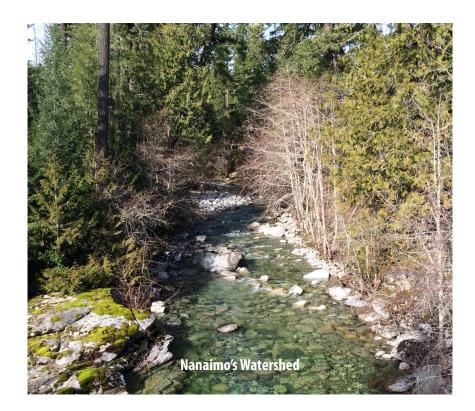
	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURE SUMMARY							
Wages & Benefits	\$882,228	\$895,441	\$920,903	\$939,321.00	\$958,107	\$977,269	\$996,815
Services & Supply Contracts	249,156	243,389	236,164	240,888	245,704	250,618	255,630
Materials & Supplies	433,039	479,820	478,129	498,330	516,763	535,993	556,057
Utilities	26,781	32,050	32,120	32,763	33,418	34,086	34,768
Internal Charges & Other	1,573,472	1,641,996	1,684,798	1,657,549	1,690,975	1,725,104	1,759,941
Grants & Subsidies	3,435	4,000	4,000	4,080	4,162	4,245	4,330
Total Expenditures	3,168,112	3,296,696	3,356,114	3,372,931	3,449,129	3,527,315	3,607,541
Revenues Generated	5,526,027	5,981,888	6,318,650	6,697,646	7,032,555	7,384,317	7,753,780
Net Operating Revenues	\$2,357,915	\$2,685,192	\$2,962,536	\$3,324,715	\$3,583,426	\$3,857,002	\$4,146,239
Staffing (FTEs)	8.8	8.8	8.8	8.8	8.8	8.8	8.8
Net Revenues Per Capita	\$26.53	\$29.82	\$32.46	\$35.95	\$38.23	\$40.61	\$43.08



Waterworks Utility

Description and Level of Service

- Operate and maintain water storage and distribution infrastructure including: main flushing, water testing and inspection
- In compliance with British Columbia Dam Safety Regulations and Canadian Dam Association guidelines, perform dam inspections and reporting
- Operate telemetry monitoring system to monitor systems
- Operate water treatment facilities
- Install new services for residential, institutional and commercial users

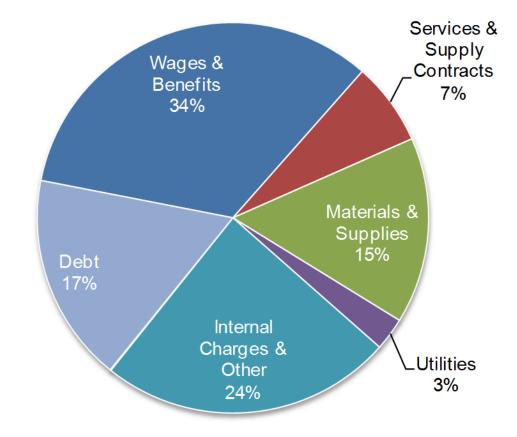


Operating Expenditures and Revenues

Net revenues are transferred to water utility reserves. Water infrastructure renewal is funded from reserves.

Internal charges include an allocation of Corporate Services and Engineering Services expenditures that benefit delivery of water services.

	2014 Actual	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget
EXPENDITURE SUMMA		Duuget	Duuget	Duuget	Duuget	Buuget	Buuget
Wages & Benefits	\$1,969,550	\$2,567,233	\$3,131,139	\$3,192,513	\$3,255,119	\$3,318,969	\$3,384,098
Services & Supply Contracts	491,575	438,264	642,153	654,027	666,136	678,485	691,090
Materials & Supplies	1,144,596	1,178,543	1,439,086	1,498,234	1,566,411	1,638,908	1,716,024
Utilities	96,919	198,100	254,150	259,233	264,419	269,706	275,100
Internal Charges & Other	2,378,936	2,527,696	2,268,749	2,209,774	2,251,756	2,294,755	2,338,798
Grants & Subsidies	5,083	5,500	6,250	6,265	6,280	6,296	6,312
Debt	1,344,892	1,756,204	1,612,682	1,644,564	1,677,720	1,712,203	1,748,065
Total Expenditures	7,431,551	8,671,540	9,354,209	9,464,610	9,687,841	9,919,322	10,159,487
Revenues Generated	14,515,466	15,053,539	16,115,468	17,337,440	18,649,889	20,059,551	21,573,671
Net Operating Revenues	\$7,083,915	\$6,381,999	\$6,761,259	\$7,872,830	\$8,962,048	\$10,140,229	\$11,414,184
Staffing (FTEs)	19.5	24.5	29.5	29.5	29.5	29.5	29.5
Net Revenues Per Capita	\$79.71	\$70.86	\$74.08	\$85.12	\$95.62	\$106.76	\$118.59





CHAPTER 6 - 2016-2020 CAPITAL PROGRAM



2016 - 2020 Financial Plan

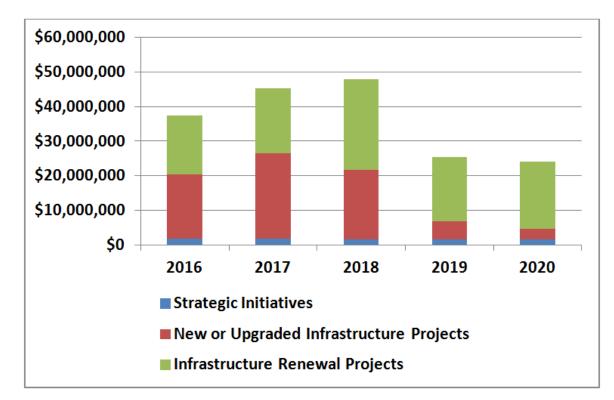
CHAPTER 6 - 2016-2020 Capital Program

2016-2020 Capital Plan - Includes Capital and Operating Projects

Projects are either classified for accounting purposes as capital or operating. Projects that satisfy specific requirements as outlined in the City's Capital Asset Policy are classified as capital expenditures and are accounted for in the City's capital funds. Projects that are smaller in scope and below specific capitalization thresholds are classified as operating projects and accounted for in the City's operating funds. The 2016 – 2020 Capital Program section includes all projects.

Overview – Infrastructure Renewal and Demand for Growth Challenges

The City owns infrastructure with a current replacement cost in excess of \$2 billion. Over time, this infrastructure will need to be replaced and additional infrastructure will be required to support a growing community Projects included in the 2016 – 2020 Financial Plan focus on specific strategic initiatives, infrastructure renewal and new/upgrades to infrastructure that will address capacity issues and regulatory changes.



Detailed project information is provided within a framework. The majority of projects in the five year plan focus on renewal of existing infrastructure to support effective and efficient delivery of current levels of service.

Significant projects in the 2016 – 2020 Financial Plan include: Boxwood Connector and Utility Project, Hammond Bay Corridor and Utility Project, Victoria Rd and Utility Project, Terminal South Complete Street and Utility Project, replacement of Wellcox trestle, a new fire station on Hammond Bay Road, expansion of the Police Operations Building, and expansion of the Port Theatre.

Capital Expenditure Policy

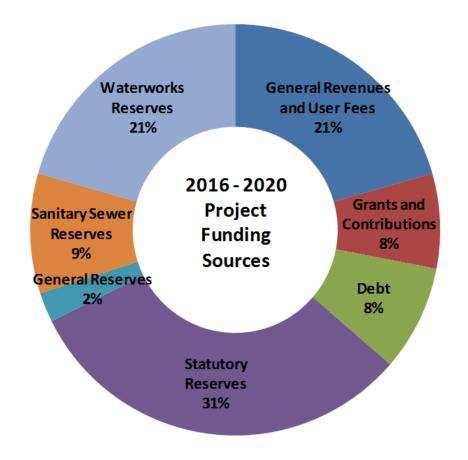
The City of Nanaimo, like all other local governments, was required to meet new financial reporting standards with respect to its tangible capital assets. Items that meet the criteria of capital will be capitalized and then amortized over the useful life of the asset.

Capital is defined as tangible property owned by the City that:

- Are held for use in the production or supply of goods or services, for rental to others, for administrative purposes or for the development, construction, maintenance or repair of other tangible capital assets;
- Have useful economic lives extending beyond 1 year;
- Are to be used on a continuing basis; and
- Are not for sale in the ordinary course of operations

Project Funding Sources

Funding for projects comes from a number of sources including general taxation, reserves, statutory funds, grants, contributions from developers and borrowing. Projects in the 2015 – 2019 Financial Plan are funded from the following sources:



Gity of Nanaimo Five-Year Financial Plan 2016-2020 - DRAFT

Debt and Debt Limits

The 2016 – 2020 Financial Plan includes new debt borrowing in the amount of \$15 million. This includes \$2.4 million for a new Fire Station on Hammond Bay Road, \$6 million to replace the Welcox Trestle and \$6.6 million for expansion of the Police Operations Building. Borrowing is repaid in twenty years.

The City's outstanding debt represents a number of projects including local road improvements where costs are shared between the City and the property

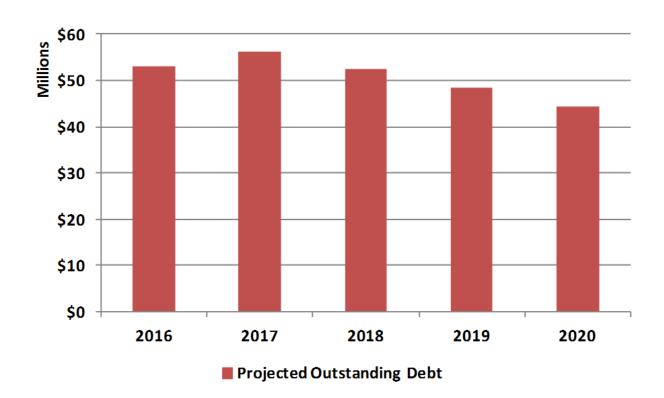
owners, the Nanaimo Aquatic Centre, Vancouver Island Conference Centre, Fire Station #4, the Harbourfront Parkade and the Water Treatment Plant.

Outstanding debt at December 31, 2014 is \$50,860,003. This balance includes all borrowing for the Water Treatment Plant. The total borrowing for the Water Treatment Plant was \$22.5M.

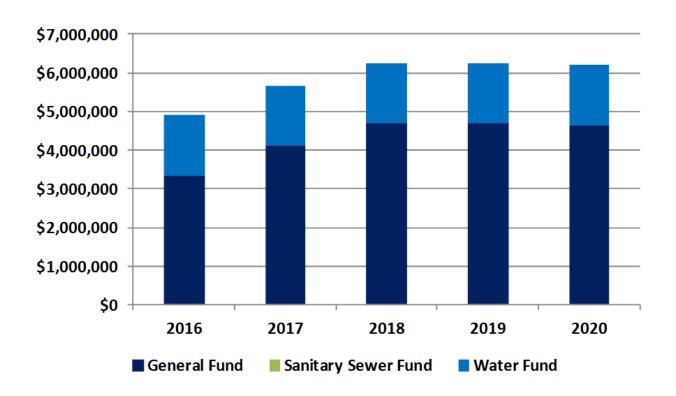
New Borrowing

Project	Year	Amount	Annual Payment
Fire Station #6	2016	2,400,000	224,000
Wellcox Trestle Replacement	2016	6,000,000	561,000
Police Operations Building Expansion	2018	6,600,000	617,000
TOTAL		\$15,000,000	\$1,402,000

Projected Outstanding Debt (\$ million)

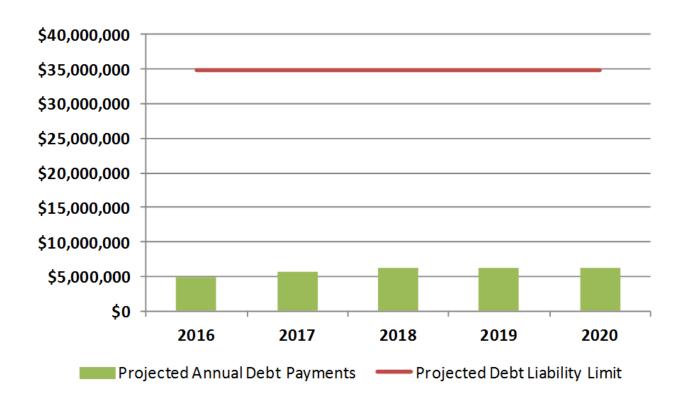






Projected Debt Limits

The City's debt servicing limit is \$34 million, as defined by the Community Charter. The limit far exceeds the new debt borrowing included in the 2016 – 2020 Financial Plan.



Grants and Private Contributions

The 2016 – 2020 Financial Plan includes annual monies received from the Nanaimo Port Authority, grants from senior governments and the RDN, and private contributions.

The Port Theatre Expansion project, included in the 2016 – 2020 Financial Plan, is funded entirely from grants and private contributions. The grants and private contribution funding for this project are still to be confirmed.

Reserve Funding

Statutory Reserves

The City has Statutory Reserve Funds that are authorized by the Community Charter and/or City Bylaws. The purpose of setting aside reserves is to provide funding for anticipated future expenditures, to ensure sufficient funds are available when required, and to limit the need to incur debt or require large increases in taxation or user fees.

Statutory Reserves can only be used as authorized by the Community Charter and the related Council Bylaw. Statutory Reserves include Asset Management Reserves, Development Cost Charges Reserves, the Facility Development Reserve, the Equipment Replacement Reserve and other special purpose reserves.

Operating Reserves

The City maintains reserve funds with the objective of setting funds aside to contribute to future capital and special operating expenditures. City reserves include IT Replacement Reserve, Housing Legacy Reserve, Parking Reserve and General Capital Reserve.

Capital Planning Overview City of Nanaimo 2016-2020 Financial Plan Statutory Reserve Projections (Funds Available for Use)

	2016	2017	2018	2019	2020
General Fund - Statutory Reserves					
Cemetery Care Reserve	540,858	548,358	555,858	563,358	570,858
Additions	7,500	7,500	7,500	7,500	7,500
Withdrawals	-	-	-	-	-
Balance @ December 31	548,358	555,858	563,358	570,858	578,358
Local Improvement Reserve	1,616,904	1,641,158	1,665,775	1,690,762	1,716,123
Additions	24,254	24,617	24,987	25,361	25,742
Withdrawals	-	-	-	-	-
Balance @ December 31	1,641,158	1,665,775	1,690,762	1,716,123	1,741,865
Parkland Dedication Reserve	144,936	242,660	341,576	441,692	543,013
Additions	97,724	98,916	100,116	101,321	102,536
Withdrawals					
Balance @ December 31	242,660	341,576	441,692	543,013	645,549
		,	,		,
Property Sales Reserve	645,844	655,532	665,365	675,345	685,475
Additions	9,688	9,833	9,980	10,130	10,282
Withdrawals	· -	· -	· -	-	-
Balance @ December 31	655,532	665,365	675,345	685,475	695,757
Equipment Depreciation Reserve	3,337,623	4,087,747	3,492,093	3,095,961	2,294,517
Additions	1,458,124	1,479,346	1,491,868	1,503,556	1,508,940
Withdrawals	708,000	2,075,000	1,888,000	2,305,000	2,796,720
Balance @ December 31	4,087,747	3,492,093	3,095,961	2,294,517	1,006,737
	4,007,747	0,452,050	5,055,501	2,234,317	1,000,707
General Fund Asset Management	2,100,902	3,273,237	4,442,125	6,221,209	8,502,267
Additions	3,699,335	4,680,888	4,702,834	4,733,058	4,781,351
Withdrawals	2,527,000	3,512,000	2,923,750	2,452,000	575,000
Balance @ December 31	3,273,237	4,442,125	6,221,209	8,502,267	12,708,618
Facility Development Reserve	1,053,493	1,863,116	2,805,486	3,613,743	3,989,116
Additions	1,141,923	1,177,370	1,213,257	1,245,373	1,281,483
Withdrawals	332,300	235,000	405,000	870,000	1,201,405
Balance @ December 31	1,863,116	2,805,486	3,613,743	3,989,116	5,270,599
balance (2 beceniber bit	1,000,110	2,000,400	0,010,740	0,505,110	5,270,555
Community Works Reserve	3,979,045	7,653,635	10,678,093	13,315,051	17,301,313
Additions	3,674,590	3,724,458	3,936,958	3,986,262	4,046,056
Withdrawals		700,000	1,300,000		
Balance @ December 31	7,653,635	10,678,093	13,315,051	17,301,313	21,347,369
Old City Parking Reserve	85,780	87.067	88 272	89,699	01.044
Additions	1,287	87,067 1,306	88,373 1,326	1,345	91,044 1,366
Withdrawals	1,207	1,506	1,526	1,345	1,500
	87,067	88,373	89,699	91,044	92,410
	07.007	00,373	05,055	91,044	52,410
Balance @ December 31					
Knowles Estate Reserve Fund	446,404	453,100	459,897	466,795	473,797
Knowles Estate Reserve Fund Additions		453,100 6,797	459,897 6,898	466,795 7,002	473,797 7,107
Knowles Estate Reserve Fund	446,404	-	-	-	-

Statutory Reserve Projections (Funds Available for Use)

Regional Emission Reduction Additions Withdrawals Balance @ December 31 DCC - City Wide Roads Additions Withdrawals Balance @ December 31 DCC - City Wide Drainage Additions Withdrawals Balance @ December 31 DCC - City Wide Drainage Additions Withdrawals Balance @ December 31 DCC - North Slope Drainage Additions Withdrawals Balance @ December 31 DCC - Millstone Drainage Additions Withdrawals Balance @ December 31 DCC - Millstone Drainage Additions Withdrawals Balance @ December 31	302,944 84,162 - - 387,106 5,929,334 1,338,938 1,650,000 5,618,272 10,060,635 337,397 - 10,398,032 982,963 14,744 - 997,707 2,543,737 38,156 - 2,581,893	387,106 85,424 - - 472,530 5,618,272 1,332,112 1,938,000 5,012,384 10,398,032 342,458 - 10,740,490 997,707 14,966 - 1,012,673 2,581,893 38,728 - - 2,620,621	472,530 86,706 - 559,236 5,012,384 1,297,193 5,382,200 927,377 10,740,490 347,595 - 11,088,085 1,012,673 15,190 - 1,027,863 2,620,621 39,309 - 2,659,930	559,236 88,006 - 647,242 927,377 1,276,284 - 2,203,661 11,088,085 352,809 - 11,440,894 1,027,863 15,418 - 1,043,281 2,659,930 39,899 - 2,699,829	647,242 89,326 - 736,568 2,203,661 1,242,055 - 3,445,716 11,440,894 358,101 - 11,798,995 1,043,281 15,649 - 1,058,930 2,699,829 40,497 - 2,740,326
Additions Withdrawals Balance @ December 31 DCC - City Wide Roads Additions Withdrawals Balance @ December 31 DCC - City Wide Drainage Additions Withdrawals Balance @ December 31 DCC - North Slope Drainage Additions Withdrawals Balance @ December 31 DCC - Millstone Drainage Additions Withdrawals Balance @ December 31	387,106 5,929,334 1,338,938 1,650,000 5,618,272 10,060,635 337,397 10,398,032 982,963 14,744 997,707 2,543,737 38,156	472,530 5,618,272 1,332,112 1,938,000 5,012,384 10,398,032 342,458 10,740,490 997,707 14,966 1,012,673 2,581,893 38,728	559,236 5,012,384 1,297,193 5,382,200 927,377 10,740,490 347,595 11,088,085 1,012,673 15,190 1,027,863 2,620,621 39,309	647,242 927,377 1,276,284 2,203,661 11,088,085 352,809 11,440,894 1,027,863 15,418 1,043,281 2,659,930 39,899	736,568 2,203,661 1,242,055 3,445,716 11,440,894 358,101 11,798,995 1,043,281 15,649 1,058,930 2,699,829 40,497
Balance @ December 31 DCC - City Wide Roads Additions Withdrawals Balance @ December 31 DCC - City Wide Drainage Additions Withdrawals Balance @ December 31 DCC - North Slope Drainage Additions Withdrawals Balance @ December 31 DCC - Millstone Drainage Additions Withdrawals Balance @ December 31	5,929,334 1,338,938 1,650,000 5,618,272 10,060,635 337,397 - 10,398,032 982,963 14,744 - 997,707 2,543,737 38,156	5,618,272 1,332,112 1,938,000 5,012,384 10,398,032 342,458 10,740,490 997,707 14,966 - 1,012,673 2,581,893 38,728 -	5,012,384 1,297,193 5,382,200 927,377 10,740,490 347,595 11,088,085 1,012,673 15,190 1,027,863 2,620,621 39,309	927,377 1,276,284 2,203,661 11,088,085 352,809 11,440,894 1,027,863 15,418 1,043,281 2,659,930 39,899	2,203,661 1,242,055 3,445,716 11,440,894 358,101 - 11,798,995 1,043,281 1,058,930 2,699,829 40,497 -
DCC - City Wide Roads Additions Withdrawals Balance @ December 31 DCC - City Wide Drainage Additions Withdrawals Balance @ December 31 DCC - North Slope Drainage Additions Withdrawals Balance @ December 31 DCC - North Slope Drainage Additions Withdrawals Balance @ December 31 DCC - Millstone Drainage Additions Withdrawals Balance @ December 31	5,929,334 1,338,938 1,650,000 5,618,272 10,060,635 337,397 - 10,398,032 982,963 14,744 - 997,707 2,543,737 38,156	5,618,272 1,332,112 1,938,000 5,012,384 10,398,032 342,458 10,740,490 997,707 14,966 - 1,012,673 2,581,893 38,728 -	5,012,384 1,297,193 5,382,200 927,377 10,740,490 347,595 11,088,085 1,012,673 15,190 1,027,863 2,620,621 39,309	927,377 1,276,284 2,203,661 11,088,085 352,809 11,440,894 1,027,863 15,418 1,043,281 2,659,930 39,899	2,203,661 1,242,055 3,445,716 11,440,894 358,101 - 11,798,995 1,043,281 1,058,930 2,699,829 40,497 -
Additions Withdrawals Balance @ December 31 DCC - City Wide Drainage Additions Withdrawals Balance @ December 31 DCC - North Slope Drainage Additions Withdrawals Balance @ December 31 DCC - Millstone Drainage Additions Withdrawals Balance @ December 31	1,338,938 1,650,000 5,618,272 10,060,635 337,397 - 10,398,032 982,963 14,744 - 997,707 2,543,737 38,156 -	1,332,112 1,938,000 5,012,384 10,398,032 342,458 - 10,740,490 997,707 14,966 - 1,012,673 2,581,893 38,728 -	1,297,193 5,382,200 927,377 10,740,490 347,595 - 11,088,085 1,012,673 15,190 - 1,027,863 2,620,621 39,309 -	1,276,284 2,203,661 11,088,085 352,809 11,440,894 1,027,863 15,418 1,043,281 2,659,930 39,899	1,242,055 3,445,716 11,440,894 358,101 11,798,995 1,043,281 15,649 1,058,930 2,699,829 40,497 -
Additions Withdrawals Balance @ December 31 OCC - City Wide Drainage Additions Withdrawals Balance @ December 31 OCC - North Slope Drainage Additions Withdrawals Balance @ December 31 OCC - Millstone Drainage Additions Withdrawals Balance @ December 31	1,338,938 1,650,000 5,618,272 10,060,635 337,397 - 10,398,032 982,963 14,744 - 997,707 2,543,737 38,156 -	1,332,112 1,938,000 5,012,384 10,398,032 342,458 - 10,740,490 997,707 14,966 - 1,012,673 2,581,893 38,728 -	1,297,193 5,382,200 927,377 10,740,490 347,595 - 11,088,085 1,012,673 15,190 - 1,027,863 2,620,621 39,309 -	1,276,284 2,203,661 11,088,085 352,809 11,440,894 1,027,863 15,418 1,043,281 2,659,930 39,899	1,242,055 3,445,716 11,440,894 358,101 11,798,995 1,043,281 15,649 1,058,930 2,699,829 40,497 -
Balance @ December 31 OCC - City Wide Drainage Additions Withdrawals Balance @ December 31 OCC - North Slope Drainage Additions Withdrawals Balance @ December 31 OCC - Millstone Drainage Additions Withdrawals Balance @ December 31	1,650,000 5,618,272 10,060,635 337,397 - 10,398,032 982,963 14,744 - 997,707 2,543,737 38,156 -	1,938,000 5,012,384 10,398,032 342,458 - 10,740,490 997,707 14,966 - 1,012,673 2,581,893 38,728 -	5,382,200 927,377 10,740,490 347,595 - 11,088,085 1,012,673 15,190 - 1,027,863 2,620,621 39,309 -	2,203,661 11,088,085 352,809 11,440,894 1,027,863 15,418 1,043,281 2,659,930 39,899 -	
OCC - City Wide Drainage Additions Withdrawals Balance @ December 31 OCC - North Slope Drainage Additions Withdrawals Balance @ December 31 OCC - Millstone Drainage Additions Withdrawals Balance @ December 31	5,618,272 10,060,635 337,397 - 10,398,032 982,963 14,744 - 997,707 2,543,737 38,156 -	10,398,032 342,458 - 10,740,490 997,707 14,966 - 1,012,673 2,581,893 38,728 -	10,740,490 347,595 11,088,085 1,012,673 15,190 1,027,863 2,620,621 39,309	11,088,085 352,809 - 11,440,894 1,027,863 15,418 - 1,043,281 2,659,930 39,899 -	11,440,894 358,101 - 11,798,995 1,043,281 15,649 - 1,058,930 2,699,829 40,497 -
Additions Withdrawals Balance @ December 31 DCC - North Slope Drainage Additions Withdrawals Balance @ December 31 DCC - Millstone Drainage Additions Withdrawals Balance @ December 31	337,397 - 10,398,032 982,963 14,744 - 997,707 2,543,737 38,156 -	342,458 10,740,490 997,707 14,966 1,012,673 2,581,893 38,728	347,595 11,088,085 1,012,673 15,190 1,027,863 2,620,621 39,309	352,809 11,440,894 1,027,863 15,418 1,043,281 2,659,930 39,899	358,101
Additions Withdrawals Balance @ December 31 OCC - North Slope Drainage Additions Withdrawals Balance @ December 31 OCC - Millstone Drainage Additions Withdrawals Balance @ December 31	337,397 - 10,398,032 982,963 14,744 - 997,707 2,543,737 38,156 -	342,458 10,740,490 997,707 14,966 1,012,673 2,581,893 38,728	347,595 11,088,085 1,012,673 15,190 1,027,863 2,620,621 39,309	352,809 11,440,894 1,027,863 15,418 1,043,281 2,659,930 39,899	358,101
Withdrawals Balance @ December 31 DCC - North Slope Drainage Additions Withdrawals Balance @ December 31 DCC - Millstone Drainage Additions Withdrawals Balance @ December 31	10,398,032 982,963 14,744 997,707 2,543,737 38,156	10,740,490 997,707 14,966 1,012,673 2,581,893 38,728	11,088,085 1,012,673 15,190 1,027,863 2,620,621 39,309	11,440,894 1,027,863 15,418 1,043,281 2,659,930 39,899	11,798,995 1,043,281 15,649 1,058,930 2,699,829 40,497
Balance @ December 31 DCC - North Slope Drainage Additions Withdrawals Balance @ December 31 DCC - Millstone Drainage Additions Withdrawals Balance @ December 31	982,963 14,744 - 997,707 2,543,737 38,156 -	997,707 14,966 - 1,012,673 2,581,893 38,728 -	11,088,085 1,012,673 15,190 - 1,027,863 2,620,621 39,309 -	1,027,863 15,418 1,043,281 2,659,930 39,899	1,043,281 15,649 - 1,058,930 2,699,829 40,497 -
Additions Withdrawals Balance @ December 31 DCC - Millstone Drainage Additions Withdrawals Balance @ December 31	14,744 997,707 2,543,737 38,156	14,966 1,012,673 2,581,893 38,728	15,190 1,027,863 2,620,621 39,309	15,418 1,043,281 2,659,930 39,899	15,649
Additions Withdrawals Balance @ December 31 DCC - Millstone Drainage Additions Withdrawals Balance @ December 31	14,744 997,707 2,543,737 38,156	14,966 1,012,673 2,581,893 38,728	15,190 1,027,863 2,620,621 39,309	15,418 1,043,281 2,659,930 39,899	15,649
Withdrawals Balance @ December 31 DCC - Millstone Drainage Additions Withdrawals Balance @ December 31	997,707 2,543,737 38,156	1,012,673 2,581,893 38,728	1,027,863 2,620,621 39,309	1,043,281 2,659,930 39,899	1,058,930 2,699,829 40,497
Balance @ December 31 DCC - Millstone Drainage Additions Withdrawals Balance @ December 31	2,543,737 38,156	2,581,893 38,728	2,620,621 39,309	2,659,930 39,899 -	2,699,829 40,497 -
DCC - Millstone Drainage Additions Withdrawals Balance @ December 31	2,543,737 38,156	2,581,893 38,728	2,620,621 39,309	2,659,930 39,899 -	2,699,829 40,497 -
Additions Withdrawals Balance @ December 31	38,156	38,728	39,309 -	39,899	40,497
Withdrawals Balance @ December 31	-	-	-	-	-
Balance @ December 31	- 2,581,893	2,620,621	- 2,659,930	2,699,829	2,740.326
	2,581,893	2,620,621	2,659,930	2,699,829	2,740,326
DCC - City Wide Parks					,,
	620,130	733,660	748,143	762,843	777,764
Additions	363,530	364,483	364,700	364,921	365,894
Withdrawals	250,000	350,000	350,000	350,000	250,000
Balance @ December 31	733,660	748,143	762,843	777,764	893,658
Fotal - General Fund Statutory Reserves	24 201 522	41 222 280	45 001 402	47 108 040	54 090 104
Additions	34,391,532 12,298,048	41,222,280 13,389,202	45,801,482 13,646,417	47,198,949 13,758,245	54,980,194 13,883,885
Withdrawals	5,467,300	8,810,000	12,248,950	5,977,000	3,621,720
Balance @ December 31	41,222,280	45,801,482	47,198,949	54,980,194	65,242,359
Sewer Fund - Statutory Reserves					
Sewer Fund Asset Management	513,234	798,662	896,149	1,032,441	2,504,324
Additions	1,092,428	1,414,887	1,686,292	1,971,883	2,291,800
Withdrawals	807,000	1,317,400	1,550,000	500,000	2,400,000
Balance @ December 31	798,662	896,149	1,032,441	2,504,324	2,396,124
DCC - City Wide Sewer	2,230,712	460,286	738,304	1,020,492	851,913
Additions	304,574	278,018	282,188	286,421	283,892
Withdrawals	2,075,000	-	-	455,000	430,000
Balance @ December 31	460,286	738,304	1,020,492	851,913	705,805
DCC - Northshore Sewer	383,052	388,798	394,630	400,549	406,557
Additions	5,746	5,832	5,919	6,008	6,098
Withdrawals		-	-	-	
Balance @ December 31	388,798	394,630	400,549	406,557	412,655
Total Source Fund Statutory Deserves	9 100 000	1 6 47 7 46	1 010 000	0.450.400	2 7 6 7 6
Total - Sewer Fund Statutory Reserves	3,126,998	1,647,746	2,029,083	2,453,482	3,762,794
Additions Withdrawals	1,402,748	1,698,737	1,974,399	2,264,312	2,581,790
Balance @ December 31	2,882,000	1,317,400 2,029,083	2,453,482	955,000 3,762,794	2,830,000

Statutory Reserve Projections (Funds Available for Use)

	2016	2017	2018	2019	2020
Water Fund - Statutory Reserves					
Water Fund Asset Management	866,101	626,447	2,253,476	4,271,721	5,090,925
Additions	1,344,346	1,751,029	2,204,245	2,683,404	3,205,756
Withdrawals	1,584,000	124,000	186,000	1,864,200	-
Balance @ December 31	626,447	2,253,476	4,271,721	5,090,925	8,296,681
DCC - City Water - Old Bylaw	5,235,821	4,832,773	4,811,114	4,771,146	4,842,713
Additions	74,952	71,791	71,332	71,567	72,641
Withdrawals	478,000	93,450	111,300	-	-
Balance @ December 31	4,832,773	4,811,114	4,771,146	4,842,713	4,915,354
DCC - City Wide Water (Distribution)	611,258	717,523	825,382	934,859	1,045,978
Additions	106,265	107,859	109,477	111,119	112,785
Withdrawals	-	-	-	-	-
Balance @ December 31	717,523	825,382	934,859	1,045,978	1,158,763
DCC - Water Supply	3,101,702	3,303,201	636,348	2,395,236	4,180,507
Additions	1,783,999	1,765,647	1,758,888	1,785,271	1,810,925
Withdrawals	1,582,500	4,432,500	-	-	150,000
Balance @ December 31	3,303,201	636,348	2,395,236	4,180,507	5,841,432
Total - Water Fund Statutory Reserves	9,814,882	9,479,944	8,526,320	12,372,962	15,160,123
Additions	3,309,562	3,696,326	4,143,942	4,651,361	5,202,107
Withdrawals	3,644,500	4,649,950	297,300	1,864,200	150,000
Balance @ December 31	9,479,944	8,526,320	12,372,962	15,160,123	20,212,230
Total Statutory Reserves	52,349,970	56,356,885	62,025,393	73,903,111	88,969,173

2016-2020 Capital Program Gity of Nanaimo Five-Year Financial Plan 2016-2020 - DRAFT

	2016	2017	2018	2019	2020
General Fund					
RCMP Contract Adjustment	2,507,115	2,507,115	2,507,115	2,507,115	2,507,115
Additions	-				
Withdrawals	-	-	-	-	-
Balance @ December 31	2,507,115	2,507,115	2,507,115	2,507,115	2,507,115
IT Infrastructure Reserve	735,746	104,618	261,462	302,398	563,970
Additions	487,872	536,844	590,436	649,572	714,714
Withdrawals	1,119,000	380,000	549,500	388,000	572,000
Balance @ December 31	104,618	261,462	302,398	563,970	706,684
Uninsured Claims Reserve	2,568,624	2,568,624	2,568,624	2,568,624	2,568,624
Additions	-	-	-	-	-
Withdrawals	-	-	-	-	-
Balance @ December 31	2,568,624	2,568,624	2,568,624	2,568,624	2,568,624
Uncollected Taxes Reserve	2,803,848	2,803,848	2,803,848	2,803,848	2,803,848
Additions	-	-	-	-	-
Withdrawals	2 002 040	2 802 848	2 802 848	2 802 848	2 002 049
Balance @ December 31	2,803,848	2,803,848	2,803,848	2,803,848	2,803,848
Property Acquisition Reserve	354,982	354,982	354,982	354,982	354,982
Additions			-		
Withdrawals	-	-	-	-	-
Balance @ December 31	354,982	354,982	354,982	354,982	354,982
PR&E Projects Reserve	358,782	358,782	358,782	358,782	358,782
Additions	-	-	-	-	-
Withdrawals	-	-	-	-	-
Balance @ December 31	358,782	358,782	358,782	358,782	358,782
Class E Licences Reserve	31,851	31,851	31,851	31,851	31,851
Additions	51,651	51,651	51,651	51,651	51,651
Withdrawals				_	
Balance @ December 31	31,851	31,851	31,851	31,851	31,851
balance @ becember of		51,051	01,001	01,001	51,051
Beban Area Property Reserve	34,755	34,755	34,755	34,755	34,755
Additions	-	· -	· -	· -	-
Withdrawals	-	-	-	-	-
Balance @ December 31	34,755	34,755	34,755	34,755	34,755
Brechin Boat Ramp	109,492	116,242	143,135	170,168	197,334
Additions	26,750	26,893	27,033	27,166	27,296
Withdrawals	20,000	-	-	-	-
Balance @ December 31	116,242	143,135	170,168	197,334	224,630
Engineering Services Projects Reserve	16/ 675	164 675	164 675	164 675	164 675
Additions	164,675	164,675	164,675	164,675	164,675
Withdrawals	-	-	-	-	-
Balance @ December 31	164,675	164,675	164,675	164,675	164,675
paratice le percurser 21	104,075	104,075	104,075	104,075	104,075

	2016	2017	2018	2019	2020
Transportation Projects Reserve	119,371	119,371	119,371	119,371	119,371
Additions					
Withdrawals	-	-	-	-	-
Balance @ December 31	119,371	119,371	119,371	119,371	119,371
		,	,	,	,
irehall Projects Reserve	261,034	261,034	261,034	261,034	261,034
Additions	-	-	-	-	-
Withdrawals	-	-	-	-	-
Balance @ December 31	261,034	261,034	261,034	261,034	261,034
ommunity Development Dept Projects Reserves	101,937	101,937	101,937	101,937	101,937
Additions	-	-		-	
Withdrawals	-	-	-	-	-
Balance @ December 31	101,937	101,937	101,937	101,937	101,937
Incollected Parking Revenue Reserve	9,396	9,396	9,396	9,396	9,396
Additions	-	-	-	-	-
Withdrawals	-	-	-	-	-
Balance @ December 31	9,396	9,396	9,396	9,396	9,396
eneral Parking Reserve	163,565	90,021	40,217		-
Additions	166,214	154,954	143,277	131,151	118,571
Withdrawals	239,758	204,758	183,494	131,151	118,571
Balance @ December 31	90,021	40,217	-	-	-
itzwilliam St Parking Reserve	142,868	142,868	142,868	142,868	142,868
Additions Withdrawals	-	-	-	-	-
Balance @ December 31	142,868	142,868	142,868	142,868	142,868
Balance @ December 51	142,000	142,000	142,000	142,000	142,000
asino	170,728	170,728	170,728	170,728	170,728
Additions	-	-	-	-	-
Withdrawals	-	-	-	-	-
Balance @ December 31	170,728	170,728	170,728	170,728	170,728
now Pomoual Pocorta	400.000	400.000	400.000	400.000	400.000
now Removal Reserve	400,000	400,000	400,000	400,000	400,000
Additions Withdrawals	-	-	-	-	-
Balance @ December 31	400,000	400,000	400,000	400,000	400,000
	100,000	.00,000	.00,000	.00,000	400,000
ICC Projects Reserve	600,682	600,682	600,682	348,682	348,682
Additions	-	-	-	-	-
Withdrawals	-	-	252,000		-
Balance @ December 31	600,682	600,682	348,682	348,682	348,682
llowance for Bad Debts Reserve	40.000	30,000	30,000	30,000	30,000
Additions					
Withdrawals	10,000	-	-	-	-
Balance @ December 31	30,000	30,000	30,000	30,000	30,000
	*	-		-	
911 Reserve	556,224	525,724	550,724	571,724	524,994
Additions	25,000	25,000	25,000	25,000	25,000
Withdrawals	55,500	-	4,000	71,730	4,080
Balance @ December 31	525,724	550,724	571,724	524,994	545,914

	2016	2017	2018	2019	2020
General Capital Reserve	4,886,455	4,886,455	4,886,455	4,886,455	4,886,455
Additions	-	-	-	-	-
Withdrawals		-	-	-	-
Balance @ December 31	4,886,455	4,886,455	4,886,455	4,886,455	4,886,455
Housing Legacy Reserve	2,640,241	2,640,241	2,640,241	2,640,241	2,640,241
Additions	-	-	-	-	-
Withdrawals	-	-	-	-	-
Balance @ December 31	2,640,241	2,640,241	2,640,241	2,640,241	2,640,241
Fire Training Centre Reserve	173,188	173,188	23,188	23,188	23,188
Additions	-	-	-	-	-
Withdrawals	-	150,000	-	-	-
Balance @ December 31	173,188	23,188	23,188	23,188	23,188
Sustainability Initiatives Reserve	477,890	483,890	530,790	634,790	753,790
Additions	125,000	125,000	125,000	125,000	125,000
Withdrawals	119,000	78,100	21,000	6,000	6,000
Balance @ December 31	483,890	530,790	634,790	753,790	872,790
Photocopier Reserve	263,838	262,174	264,784	213,066	256,757
Additions	64,336	64,610	65,282	66,691	67,348
Withdrawals	66,000	62,000	117,000	23,000	17,000
Balance @ December 31	262,174	264,784	213,066	256,757	307,105
PR&E Snow Removal Reserve	100,000	100,000	100,000	100,000	100,000
Additions	-	-	-	-	-
Withdrawals	-	-	-	-	-
Balance @ December 31	100,000	100,000	100,000	100,000	100,000
VI Fire Academy Reserve	108,524	108,524	108,524	108,524	108,524
Additions	-	-	-	-	-
Withdrawals	-	-	-	-	-
Balance @ December 31	108,524	108,524	108,524	108,524	108,524
Colliery Dam Reserve	140,000	140,000	140,000	140,000	140,000
Additions	· -	· -	· -	· -	· -
Withdrawals	-	-	-	-	-
Balance @ December 31	140,000	140,000	140,000	140,000	140,000
Total - General Fund	21,025,811	20,291,725	20,350,168	20,199,202	20,603,901
Additions	895,172	933,301	976,028	1,024,580	1,077,929
Withdrawals	1,629,258	874,858	1,126,994	619,881	717,651
	_,0_0,000	2. 1,050	-,,,,		

	2016	2017	2018	2019	2020
Sewer Fund					
Sewer Reserve	8,700,659	6,786,840	6,239,891	2,169,670	1,521,339
Additions	1,885,881	1,932,251	1,923,029	1,915,169	1,908,785
Withdrawals	3,799,700	2,479,200	5,993,250	2,563,500	2,173,102
Balance @ December 31	6,786,840	6,239,891	2,169,670	1,521,339	1,257,022
SFN Sewer Connection	916	916	916	916	916
Additions	510	510	910	910	510
Withdrawals	-	-	-	-	-
Balance @ December 31	916	916	916	916	916
B 00 0	050.000	050.000	050.000	050.000	
DCC - Sewer Additions	850,000	850,000	850,000	850,000	850,000
Withdrawals	-	-	-	-	-
Balance @ December 31	850,000	850,000	850,000	850,000	850,000
	,	,	,	,	,
Total - Sewer Fund	9,551,575	7,637,756	7,090,807	3,020,586	2,372,255
Additions	1,885,881	1,932,251	1,923,029	1,915,169	1,908,785
Withdrawals	3,799,700	2,479,200	5,993,250	2,563,500	2,173,102
Balance @ December 31	7,637,756	7,090,807	3,020,586	2,372,255	2,107,938
Water Fund					
Water Reserve	3,289,164	3,071,282	1,324,112	223,890	1,528,042
Additions	3,973,518	4,509,930	5,007,284	5,547,392	6,133,566
Withdrawals	4,191,400	6,257,100	6,107,506	4,243,240	6,213,800
Balance @ December 31	3,071,282	1,324,112	223,890	1,528,042	1,447,808
Water Local Improvements Reserve	99,661	99,661	99,661	99,661	99,661
Additions	-	-	-	-	-
Withdrawals	-	-	-	-	-
Balance @ December 31	99,661	99,661	99,661	99,661	99,661
DCC - Water	400,000				
	400.000	400.000	400.000	400.000	400.000
Additions	400,000	400,000	400,000	400,000	400,000
Additions Withdrawals	400,000	400,000 - -	400,000 - -	400,000 - -	400,000 - -
	400,000	400,000 - - 400,000	400,000 - - 400,000	400,000 - - 400,000	400,000 - - 400,000
Withdrawals Balance @ December 31	400,000	400,000	400,000	400,000	400,000
Withdrawals Balance @ December 31	-	-	-	-	-
Withdrawals Balance @ December 31	400,000	400,000	400,000	400,000	400,000
Withdrawals Balance @ December 31 Levelling Reserve Additions	400,000	400,000	400,000	400,000	400,000
Withdrawals Balance @ December 31 Levelling Reserve Additions Withdrawals Balance @ December 31	400,000 1,500,000 - 1,500,000 - 1,500,000	400,000 1,500,000 - 1,500,000 - 1,500,000	400,000 1,500,000 - 1,500,000 1,500,000	400,000 1,500,000 - 1,500,000 1,500,000	400,000 1,500,000 - 1,500,000
Withdrawals Balance @ December 31 Levelling Reserve Additions Withdrawals Balance @ December 31 Water Supply Reserve	400,000 1,500,000 - - 1,500,000 9,584,112	400,000 1,500,000 - 1,500,000 9,848,118	400,000 1,500,000 - 1,500,000 6,374,928	400,000 1,500,000 - 1,500,000 6,639,523	- 400,000 1,500,000 - 1,500,000 6,698,654
Withdrawals Balance @ December 31 Levelling Reserve Additions Withdrawals Balance @ December 31 Water Supply Reserve Additions	400,000 1,500,000 - 1,500,000 9,584,112 1,324,506	400,000 1,500,000 1,500,000 9,848,118 1,503,310	400,000 1,500,000 - - 1,500,000 6,374,928 1,669,095	400,000 1,500,000 - - 1,500,000 6,639,523 1,849,131	400,000 1,500,000 - 1,500,000 6,698,654 2,044,522
Withdrawals Balance @ December 31 Levelling Reserve Additions Withdrawals Balance @ December 31 Water Supply Reserve	400,000 1,500,000 - - 1,500,000 9,584,112	400,000 1,500,000 - 1,500,000 9,848,118	400,000 1,500,000 - 1,500,000 6,374,928	400,000 1,500,000 - 1,500,000 6,639,523	- 400,000 1,500,000 - 1,500,000 6,698,654
Withdrawals Balance @ December 31 Levelling Reserve Additions Withdrawals Balance @ December 31 Water Supply Reserve Additions Withdrawals Balance @ December 31	400,000 1,500,000 1,500,000 9,584,112 1,324,506 1,060,500 9,848,118	400,000 1,500,000 1,500,000 9,848,118 1,503,310 4,976,500 6,374,928	400,000 1,500,000 1,500,000 6,374,928 1,669,095 1,404,500 6,639,523	400,000 1,500,000 1,500,000 6,639,523 1,849,131 1,790,000 6,698,654	400,000 1,500,000 - - 1,500,000 6,698,654 2,044,522 744,000 7,999,176
Withdrawals Balance @ December 31 Levelling Reserve Additions Withdrawals Balance @ December 31 Water Supply Reserve Additions Withdrawals Balance @ December 31 Total - Water Fund	400,000 1,500,000 1,500,000 9,584,112 1,324,506 1,060,500 9,848,118 14,872,937	400,000 1,500,000 1,500,000 9,848,118 1,503,310 4,976,500 6,374,928 14,919,061	400,000 1,500,000 1,500,000 6,374,928 1,669,095 1,404,500 6,639,523 9,698,701	400,000 1,500,000 1,500,000 6,639,523 1,849,131 1,790,000 6,698,654 8,863,074	400,000 1,500,000 1,500,000 6,698,654 2,044,522 744,000 7,999,176 10,226,357
Withdrawals Balance @ December 31 Levelling Reserve Additions Withdrawals Balance @ December 31 Water Supply Reserve Additions Withdrawals Balance @ December 31 Total - Water Fund Additions	400,000 1,500,000 1,500,000 9,584,112 1,324,506 1,060,500 9,848,118 14,872,937 5,298,024	400,000 1,500,000 1,500,000 9,848,118 1,503,310 4,976,500 6,374,928 14,919,061 6,013,240	400,000 1,500,000 1,500,000 6,374,928 1,669,095 1,404,500 6,639,523 9,698,701 6,676,379	400,000 1,500,000 1,500,000 6,639,523 1,849,131 1,790,000 6,698,654 8,863,074 7,396,523	400,000 1,500,000 - 1,500,000 6,698,654 2,044,522 744,000 7,999,176 10,226,357 8,178,088
Withdrawals Balance @ December 31 Levelling Reserve Additions Withdrawals Balance @ December 31 Water Supply Reserve Additions Withdrawals Balance @ December 31 Total - Water Fund Additions Withdrawals	400,000 1,500,000 1,500,000 9,584,112 1,324,506 1,060,500 9,848,118 14,872,937 5,298,024 5,251,900	400,000 1,500,000 1,500,000 9,848,118 1,503,310 4,976,500 6,374,928 14,919,061 6,013,240 11,233,600	400,000 1,500,000 1,500,000 6,374,928 1,669,095 1,404,500 6,639,523 9,698,701 6,676,379 7,512,006	400,000 1,500,000 1,500,000 6,639,523 1,849,131 1,790,000 6,698,654 8,863,074 7,396,523 6,033,240	400,000 1,500,000 1,500,000 6,698,654 2,044,522 744,000 7,999,176 10,226,357 8,178,088 6,957,800
Withdrawals Balance @ December 31 Levelling Reserve Additions Withdrawals Balance @ December 31 Water Supply Reserve Additions Withdrawals Balance @ December 31 Total - Water Fund Additions	400,000 1,500,000 1,500,000 9,584,112 1,324,506 1,060,500 9,848,118 14,872,937 5,298,024	400,000 1,500,000 1,500,000 9,848,118 1,503,310 4,976,500 6,374,928 14,919,061 6,013,240	400,000 1,500,000 1,500,000 6,374,928 1,669,095 1,404,500 6,639,523 9,698,701 6,676,379	400,000 1,500,000 1,500,000 6,639,523 1,849,131 1,790,000 6,698,654 8,863,074 7,396,523	400,000 1,500,000 - 1,500,000 6,698,654 2,044,522 744,000 7,999,176 10,226,357 8,178,088

Capital Program Overview

2016-2020 Capital Program

The City plans for project expenditures on a five-year cycle with annual reviews and updates. The 2016 -2020 Financial Plan includes projects that are consistent with the corporate objective of Asset Management as identified in the Strategic Plan, planNanaimo (OCP) and approved master plans such as the Transportation Master Plan and the Cultural Plan for a Creative Nanaimo.

Asset Management

AssetManagementisanintegrated approach involving planning, finance, engineering and operational departments to effectively manage the City's existing and new assets. The intent is to maximize benefits, reduce risks and provide satisfactory levels of service to the community in a sustainable manner.

The required changes in financial reporting for municipalities in 2008 brought needed attention to aging infrastructure and the challenges local governments face in funding operating, maintenance, renewal and growth of their infrastructure. The City has made significant progress in adopting asset management principles and best practices. Council made important commitments by identifying asset management as a strategic priority and approving annual increases to property taxes and sewer and water user fees for contributions to asset management reserves.. These reserves will contribute to sustainable funding for infrastructure renewal. Work continues in the organization to further improve and develop asset management knowledge, processes and information for decision makers. The City's last Asset Management Update can be found at <u>https://www.nanaimo.ca/</u> <u>assets/Departments/Engineering~Public~Works/20</u> <u>12AssetManagementUpdate.pdf</u>. The next update is planned for 2016 to identify progress to date.

Project information is provided by:

- Summary by major category or program and funding
- Summary by major category or program and type (new/upgrade or renewal)
- Detail reports for each major category or program and type

2016-2020 Capital Program Overview

When constructing new infrastructure or facilities, there is typically an annual operating and maintenance budget needed.

Below is a listing of the operating budget impacts (excluding staffing budgets) for new facilities as a result of the 2016 – 2020 Financial Plan.

Staffing for Fire Station #6 will be phased in during 2017 and 2018 and the projected annual cost for full staffing will be in excess of \$1.6 million.

Additional operating costs related to expansion of the Police Operations Building have not been calculated pending further development of the project.

Reference	2016	2017	2018	2019	2020
P-F1 Fire Station #6: Hammond Bay	59,000	60,180	61,384	62,611	63,863
	\$59,000	\$60,180	\$61,384	\$62,611	\$63,863

2016-2020 Capital Plan - Operating and Capital Funds

(Summary by Major Category and Funding)

	2016	2017	2018	2019	2020	Total
PROJECTS						
Strategic	1,813,855	1,791,789	1,603,041	1,508,502	1,498,972	8,216,15
Concurrent Infrastructure Projects	9,999,960	10,787,950	12,716,450	2,010,000	3,500,600	39,014,96
Equipment & Vehicle Program	1,663,800	3,117,350	2,787,600	2,899,022	3,295,549	13,763,32
Facilities Infrastructure & Amenities Program	8,761,250	9,053,282	9,573,975	2,717,300	817,230	30,923,03
Information Technology Infrastructure Progra	1,596,455	543,900	768,400	496,698	672,825	4,078,27
Parking Infrastructure Program	83,000	10,000	391,550	585,000	605,000	1,674,55
Parks Infrastructure Program	907,855	2,627,712	1,921,352	625,000	549,432	6,631,35
Sanitary Sewer Infrastructure Program	4,109,000	1,838,200	4,415,000	2,652,000	3,978,602	16,992,80
Drainage Infrastructure Program	332,000	530,000	650,000	1,452,000	1,044,000	4,008,00
Transportation Infrastructure Program	1,796,300	2,439,900	7,823,900	3,212,400	2,902,200	18, 174, 70
Water Infrastructure Program	6,265,000	12,494,000	5,323,106	7,179,400	5, 162, 100	36,423,60
Total Projects	37,328,475	45,234,083	47,974,374	25,337,322	24,026,510	179,900,76
FUNDING SOURCES						
Parks DCCs	250,000	350,000	350,000	350,000	250,000	1,550,00
Roads DCCs	1,650,000	1,938,000	5,382,200	-		8,970,2
Sewer DCCs	2,075,000	-	-	455,000	430,000	2,960,00
Water DCCs	2,060,500	4,525,950	111,300	-	150,000	6,847,75
Development Cost Charges (DCC) Reserves	6,035,500	6,813,950	5,843,500	805,000	830,000	20,327,95
Community Works Reserve	-	700,000	1,300,000	-	-	2,000,00
Equipment Depreciation Reserve	708,000	2,075,000	1,888,000	2,305,000	2,796,720	9,772,72
Facility Development Reserve	332,300	235,000	405,000	870,000	-	1,842,30
General Fund Asset Mgmt Reserve	2,527,000	3,512,000	2,923,750	2,452,000	575,000	11,989,7
Sewer Fund Asset Mgmt Reserve	807,000	1,317,400	1,550,000	500,000	2,400,000	6,574,40
Water Fund Asset Mgmt Reserve	1,584,000	124,000	186,000	1,864,200	-	3,758,2
General Reserves	1,433,500	689,100	943,500	498,730	629,080	4,193,9
Sewer Reserves	3,799,700	2,479,200	5,993,250	2,563,500	2, 173, 102	17,008,7
Water Reserves	5,251,900	11,233,600	7,512,006	6,033,240	6,957,800	36,988,54
Operating and Statutory Reserves	16, 443, 400	22,365,300	22,701,506	17,086,670	15,531,702	94, 128, 5
Gove mment Grants	2,300,000	2,300,000	-	-	-	4,600,00
Private Contributions	2,891,541	5,179,000	-	-	-	8,070,54
Grants/Private Contributions	5,191,541	7,479,000	-	-	-	12,670,54
Concert Development of the State	7 450 004	7 204 022	7 400 000	7 445 652	7 664 000	27.002.0
General Revenue and User Fees	7,158,034	7,304,833	7,429,368	7,445,652	7,664,808	37,002,6
PILT's	100,000	671,000	-	-	-	771,0
Borrowing	2,400,000	600,000	12,000,000	-	-	15,000,00
Total Funding	37,328,475	45,234,083	47,974,374	25,337,322	24,026,510	179,900,76

2016-2020 Capital Plan - Operating and Capital Funds

(Summary by Major Category and Type)

		2016	2017	2018	2019	2020	Total
REF #	STRATEGIC						Total
P-S1	Strategic	483,855	497,589	418,041	413,502	413,972	2,226,959
P-S2	Land Acquisition	600,000	600,000	600,000	600,000	600,000	3,000,000
P-S3	Planning	630,000	694, 200	585,000	495,000	485,000	2,889,200
P-S4	Waterfront Development	100,000	-	-	-	-	100,000
	Strategic	1,813,855	1,791,789	1,603,041	1,508,502	1,498,972	8,216,159
	CONCURRENT INFRASTRUCTURE PROJECTS						
P-C1	New/Upgrade	3,162,000	3,849,000	7,061,000	1,408,000	996,500	16,476,500
P-C2	Renewal	6,837,960	6,938,950	5,655,450	602,000	2,504,100	22,538,460
	Concurrent Infrastructure Projects	9,999,960	10,787,950	12,716,450	2,010,000	3,500,600	39,014,960
	EQUIPMENT & VEHICLE PROGRAM						
P-E1	New/Upgrade	426,400	1,242,000	15,000	-	15,000	1,698,400
P-E2	Renewal	1,237,400	1,875,350	2,772,600	2,899,022	3,280,549	12,064,921
	Equipment & Vehicle Program	1,663,800	3,117,350	2,787,600	2,899,022	3,295,549	13,763,321
	FACILITIES INFRASTRUCTURE & AMENITIES PROG	RAM					
P-F1	New/Upgrade	7,540,000	7,684,167	6,000,000	-	-	21,224,167
P-F2	Renewal	1,221,250	1,369,115	3,573,975	2,717,300	817,230	9,698,870
	Facilities Infrastructure & Amenities Program	8,761,250	9,053,282	9,573,975	2,717,300	817,230	30,923,037
	INFORMATION TECHNOLOGY INFRASTRUCTURE F	ROGRAM					
P-IT1	New/Upgrade	814,500	27,500	377,500	-	-	1,219,500
P-IT2	Renewal	781,955	516,400	390,900	496,698	672,825	2,858,778
	Information Technology Infrastructure Program	1,596,455	543,900	768,400	496,698	672,825	4,078,278
	PARKING INFRASTRUCTURE PROGRAM						
P-P1	Renewal	83,000	10,000	391,550	585,000	605,000	1,674,550
	Parking Infrastructure Program	83,000	10,000	391,550	585,000	605,000	1,674,550
	PARKS INFRASTRUCTURE PROGRAM						
P-PI1	New/Upgrade	480, 310	2,250,000	1,800,000	500,000	400,000	5,430,310
P-PI2	Renewal	427,545	377,712	121,352	125,000	149,432	1,201,041
	Parks Facilities Program	907,855	2,627,712	1,921,352	625,000	549,432	6,631,351
	SANITARY SEWER INFRASTRUCTURE PROGRAM						
P-SS1	New/Upgrade	3,099,000	60,000	3,225,000	600,000	430,000	7,414,000
P-SS2	Renewal	1,010,000	1,778,200	1,190,000	2,052,000	3,548,602	9,578,802
	Sanitary Sewer Infrastructure Program	4,109,000	1,838,200	4,415,000	2,652,000	3,978,602	16,992,802
	DRAINAGE INFRASTRUCTURE PROGRAM						
P-SD1	Renewal	332,000	530,000	650,000	1,452,000	1,044,000	4,008,000
	DRAINAGE INFRASTRUCTURE PROGRAM	332,000	530,000	650,000	1,452,000	1,044,000	4,008,000
	TRANSPORTATION INFRASTRUCTURE PROGRAM						
P-T1	New/Upgrade	387,200	756,900	471,100	1,227,400	1,170,200	4,012,800
P-T2	Renewal	1,409,100	1,683,000	7,352,800	1,985,000	1,732,000	14,161,900
	Transportation Infrastructure Program	1,796,300	2,439,900	7,823,900	3,212,400	2,902,200	18,174,700
	WATER INFRASTRUCTURE PROGRAM						
P-W1	New/Upgrade	2,643,000	8,926,000	1,215,606	1,600,000	200,000	14,584,606
P-W2	Renewal	3,622,000	3,568,000	4,107,500	5,579,400	4,962,100	21,839,000
	Water Infrastructure Program	6,265,000	12,494,000	5,323,106	7,179,400	5,162,100	36,423,606
	Total Projects	37,328,475	45,234,083	47,974,374	25,337,322	24,026,510	179,900,764

2016-2020 Capital Projects Plan (PS-1)

Operating and Capital Funds

Reference # Project:	P-S1 Strategic					
	2016	2017	2018	2019	2020	Total
Project Costs:						
Archaeological Site Assessment	50,000	-	-	-	-	50,000
Canada Day 150 Celebrations	5,000	30,000	-	-	-	35,000
Coal Town Trail Signage/Mapping	15,000	-	-	-	-	15,000
Downtown Heritage Bldg Design Guidelines Update	-	50,000	-	-	-	50,000
Grants	200,000	150,000	150,000	150,000	150,000	800,000
Housing Legacy Reserve	-	165,000	165,000	165,000	165,000	660,000
Immigrant Welcome Reception	4,500	4,500	4,500	4,500	4,500	22,500
Invasive Plant Management Program	25,000	25,000	25,000	20,000	20,000	115,000
Mayor's Youth Advisory Council	3,000	3,000	3,000	3,000	3,000	15,000
Public Art	30,000	30,000	30,000	30,000	30,000	150,000
Public Education of Water System	65,000	-	-	-	-	65,000
Recreation Partnership Programs	68,855	22,589	23,041	23,502	23,972	161,959
Transportation Initiatives	17,500	17,500	17,500	17,500	17,500	87,500
То	tal 483,855	497,589	418,041	413,502	413,972	2,226,959
Funding Sources:						
Water Reserves	65,000	-	-	-	-	65,000
Private Contributions	45,141	-	-	-	-	45,141
General Revenue and User Fees	373,714	497,589	418,041	413,502	413,972	2,116,818
Το	tal 483,855	497,589	418,041	413,502	413,972	2,226,959

2016-2020 Capital Projects Plan (PS-1)

Overview: To address specific initiatives, issues or goals.

Project Descriptions and Benefits:

Archaeological Site Assessment: An archaeological field survey to verify and complete high potential archaeological site mapping within City limits. The Provincial Archaeological Sites register will be updated based on results and the project will be completed in consultation with Snuneymuwx First Nation.

Canada Day 150 Celebrations: The City of Nanaimo is on the executive for the 2017 Canada Day 150 Community Committee. Planning is underway for the ten day event that will kick off on National Aboriginal day and end with the finale on Canada Day.

Coal Town Trail: The creation of a Coal Town Trail celebrating Nanaimo's coal heritage by linking walking and biking paths throughout the City using interpretive signage, way-finding and mapping.

Grants

- **Downtown Facade Grant Program:** Started in 2003, \$20,000 annual program to provide incentives for heritage building renewal as part of the City's Downtown Revitalization Strategy.
- **SPCA Capital Grant:** In 2014 Council approved a \$50,000 grant per year for 2014, 2015 and 2016 to be used for a new facility.
- Water Conservation: Incentive programs for City residents to reduce water consumption including
 - Toilet Rebate Program \$100,000 per year
 - Appliance Rebate Program \$30,000 per year

Housing Legacy Reserve: Provides for annual contribution to the Housing Legacy Reserve. The reserve is used to fund municipal support for affordable housing initiatives in Nanaimo.

Community Engagement

- Immigrant Welcome Reception: Held annually to welcome new residents from other countries to the community.
- **Mayor's Youth Advisory Council:** Implemented in 2014, and comprised of youth between the ages of 15 and 24, to provide comments to Council on a range of subject matters.

Invasive Plant Management Program: Provide staff training on priority invasive plants including identification, handling, transportation and disposal to minimize spread. Provide training and supervision to volunteers during invasive plant management projects within City parks. Raise public awareness about priority invasive plants that can have a negative impact on environmental and public health, as well as damage homes and infrastructure.

Public Art: Support temporary public art program.

Public Education of Water System: Development of education material including a video and display boards to enhance the public's understanding of the City's water system.

Recreation Partnership Programs: The PR&E department partners with other stakeholders (eg. Island Health) to provide programs such as Swim to Survive Program, Healthy Weights Program and Mend Program. Contributions from partners help fund these programs.

Transportation Initiatives

- Alternate Transportation Education & Marketing: Includes promotion of Bike to Work week.
- **Safer School Travel Program:** Program improves safe student access to/from schools for pedestrians and cyclists. Typically is used to support larger projects that improve student access/safety or fund smaller projects raised by schools.

2016-2020 Capital Projects Plan (PS-2)

Operating and Capital Funds

Reference # Project:	P-S2 Strategic - Land Acquisition						
	2016	2017	2018	2019	2020		
Project Costs:	600,000	600,000	600,000	600,000	600,000		
Funding Sources:							
General Revenue	600,000	600,000	600,000	600,000	600,000		

Project Descriptions and Benefits:

Annual budget allocation for acquisition of land for park or other City purposes.

Unspent budget is transferred to the Property Acquisition Reserve at the end of the year.

2016-2020 Capital Projects Plan (PS-3)

Operating and Capital Funds

Reference #	P-S3
Project:	Strategic - Planning

	2016	2017	2018	2019	2020	Total
	2010	2017	2010	2015	2020	Total
Project Costs:						
Drainage	21	450 21,450	25,000	25,000	25,000	117,900
Environment	73	.550 2,750) -	-	-	76,300
Financial	85	.000 60,000	60,000	60,000	60,000	325,000
Fire Services	5	.000 5,000	5,000	5,000	5,000	25,000
Parks, Recreation and Environment		- 75,000	75,000	-	-	150,000
Community Planning	150	.000 100,000	225,000	200,000	200,000	875,000
Sanitary Sewer	140	.000 100,000	50,000	50,000	50,000	390,000
Transportation	65	.000 125,000	65,000	65,000	65,000	385,000
Water Distribution	50	.000 50,000	50,000	50,000	50,000	250,000
Water Supply	40	.000 155,000	30,000	40,000	30,000	295,000
T	Total 630	.000 694,200	585,000	495,000	485,000	2,889,200
Funding Sources:						
Sewer Reserves	140	.000 100,000	50,000	50,000	50,000	390,000
Water Reserves	90	.000 205,000	80,000	90,000	80,000	545,000
Private Contributions	26	400 -	-	-	-	26,400
General Revenue	373	.600 389,200	455,000	355,000	355,000	1,927,800
1	Total 630	.000 694,200	585,000	495,000	485,000	2,889,200

2016-2020 Capital Projects Plan (PS-3)

Overview: City planning processes include public consultation, and information collection and analysis that support decisions for upgrading/expansion of City infrastructure.

Project Descriptions and Benefits:

Drainage: Annual studies to identify existing and future capacity issues in storm drainage system.

Environment: 2016 projects include development of an environmental framework for the City, stream sign upgrading including adding Snuneymuwx First Nation name for each watercourse, development and implementation of Jingle Pot Marsh Restoration plan, and Community Watershed Monitoring Program.

Financial: 2016 projects include Financial/Performance Audits and Property Valuation Program.

Fire Services: Provide for recruitment expenses to address succession planning and staffing requirement for new fire station on Hammond Bay Road.

Parks, Recreation and Environment: Update the Parks, Recreation and Environment Master Plan. The current Parks, Recreation and Culture Master Plan was adopted in 2005 and prior to the change to the structure of the department.

Community Planning:

- Official Community Plan (OCP) Update the current OCP was adopted in 2008 and an update is planned in 2019.
- Community Planning Studies include Land Capacity Analysis, Town Structure Plan (linked to Transportation Master Plan), and Bylaw Reviews.
- City Orthophotos ongoing annual maintenance of data sets with a full update including new photos planned in 2018.

Sanitary Sewer: Annual studies to identify existing and future capacity issues such as infrastructure failures, surcharging and backflow. Planned studies include Townsite and Brechin Master Plan, Downtown North and South Master Plan, and Fillinger Crescent Routing Study.

Transportation: Annual studies to identify existing and future capacity issues with the transportation network. Planned studies include a population projection study and model recalibration (2018) to assist with long-term infrastructure planning, and the traffic counters program.

Water Distribution and Water Supply: Annual studies to identify existing and future capacity issues to maintain operating pressures and required fire flows in the water system. Specific planned studies include Water Audit Update, Watershed Forecasting Model, and Water Conservation Strategy.

2016-2020 Capital Projects Plan (PS-4)

Operating and Capital Funds

Reference # Project:		P-S4 Strategic - Waterfront Development								
		2016	2017	2018	2019	2020	Total			
Project Costs:	_	100,000	-	-	-	-	100,000			
Funding Sources: PILT's		100,000	-		-	-	100,000			
	Total	100,000	-	-	-	-	100,000			

Overview: In 2013, the City acquired 26.7 acres of land at 1 Port Drive. In 2014, the South Downtown Waterfront Initiative prepared a framework and guiding principles for the redevelopment of this area. In 2015, site remediation (demolition of dock) and environmental assessment were undertaken. The development of a detailed Master Plan is underway and will continue into 2016.

2016-2020 Capital Projects Plan (P-C1)

Operating and Capital Funds

Reference # Project:			P-C1 Concurrent Infrastructure Projects - New/Upgrades							
			2016	2017	2018	2019	2020	Total		
Project Costs	:									
	Boxwood Connector & Utility Project		1,675,000	-	7,016,000	-	-	8,691,000		
	Duffern @ Dufferin St Upgrade		-	-	-	130,000	-	130,000		
	Dufferin Cres SW & Utility Upgrade		-	-	45,000	-	996,500	1,041,500		
	Estevan Rd Complete St Corridor Proje	ect	-	160,000	-	-	-	160,000		
	Hammond Bay Corridor & Utility Proje	ct	-	3,667,000	-	-	-	3,667,000		
	Jingle Pot Utility Project		-	22,000	-	675,000	-	697,000		
	Metral Corridor & Utility Upgrade		-	-	-	603,000	-	603,000		
	Victoria Rd SW & Utility Project		1,487,000	-	-	-	-	1,487,000		
		Total	3,162,000	3,849,000	7,061,000	1,408,000	996,500	16,476,500		
Funding Sour	ces:									
	Roads DCCs		1,550,000	1,938,000	5,382,200	-	-	8,870,200		
	Sewer DCCs		-	-	-	455,000	-	455,000		
	Water DCCs		-	93,450	-	-	-	93,450		
	General Fund Asset Mgmt Reserve		-	1,462,000	-	-	-	1,462,000		
	Sewer Fund Asset Mgmt Reserve		687,000	-	-	-	-	687,000		
	Sewer Reserves		45,000	-	685,000	-	314,500	1,044,500		
	Water Reserves		50,000	195,550	566,000	348,000	441,000	1,600,550		
	General Revenue		830,000	160,000	427,800	605,000	241,000	2,263,800		
		Total	3,162,000	3,849,000	7,061,000	1,408,000	996,500	16,476,500		

2016-2020 Capital Projects Plan (P-C1)

Overview: Concurrent infrastructure projects can include roads, sidewalks, lighting, signals, drainage, sanitary sewer and water infrastructure. Significant benefits are achieved including improved cost efficiencies, optimizing staff resources and reduction in service disruptions to the community when planning and completing multi infrastructure projects in an area at the same time.

> Concurrent projects for new/upgraded infrastructure will address safety, growth, capacity or regulatory needs.

> The City's Transportation Master Plan (2014) identified recommendations to improve pedestrian, cycling, transit and vehicle mobility within the City. Where cost effective, those recommendations are integrated with concurrent projects. Examples of these amenities include sidewalks, cycling lanes and improved transit stops.

Funding

Where projects are required due to development, funding from DCC reserves are utilized.

Where projects are for upgrades to existing infrastructure, funding from asset management reserves has been utilized in addition to general taxation revenues and operating reserves.

Project Descriptions and Benefits:

Major Projects

Boxwood Connector & Utility Project: Road network improvement project to address congestion and safety issues at Bowen/Northfield intersection. Project scope includes new drainage infrastructure (mains and pond) and new sanitary sewer and water infrastructure to support development in the area.

Dufferin @ Dufferin St Upgrade: Improvements to vehicle and pedestrian alignment through the intersection of Dufferin @ Dufferin, and construction of a new sidewalk on the south side of Dufferin Cres. to improve pedestrian safety and comfort.

Dufferin Crescent Sidewalk (SW) & Utility Upgrade: New drainage and sidewalk infrastructure, upsize sanitary sewer infrastructure to address capacity issues and replacement of watermain at end of useful life.

Estevan Rd Complete St Corridor Project: Pedestrian and cycling upgrades consistent with Newcastle and Brechin neighbourhood plan.

Hammond Bay Corridor & Utility Project: Address cracking pavement and apparent subsidence adjacent to retaining wall, widening of road shoulders to improve pedestrian and cycling flow and safety, and watermain upsizing to address deficient fire flows.

Jingle Pot Utility Project: Upsize sanitary sewer infrastructure to address capacity issues and renewal of watermain at end of useful life.

Metral Corridor & Utility Project: Cycling, sidewalk, crosswalk, bus stop and drainage infrastructure upgrades from Mostar to Turner and replacement of watermain at end of useful life.

Victoria Rd SW & Utility Project: Comprehensive street upgrade project including sidewalk, bike lane, on-street parking, drainage and sanitary sewer infrastructure to address deteriorating infrastructure in area with potential geotechnical issues.

2016-2020 Capital Projects Plan (P-C2)

Operating and Capital Funds

Reference # Project:		P-C2 Concurrent Infrastructure Projects - Renewals										
		2016	2017	2018	2019	2020	Total					
Project Costs:												
roject costs.	Bartlett & Venlaw Area Utility Upgrade	-	-	75,000	-	880,100	955,1					
	Beban Plaza Utilities Project	789,000	-	-	-	-	, 789,0					
	Big Bear Ridge Area Utility Upgrade	· · ·	-	-	62,000	-	62,					
	Bradley/Wall Drainage & Sanitary Project	-	341,000	-	-	-	341,					
	Caspers Way RHB & Utility Project	-	-	-	-	597,000	597,					
	Cinnabar Dr RHB & Utility Upgrade	-	970,950	-	-	· _	, 970,					
	Cliff St Area Corridor & Utility Project	1,783,360	-	-	-	-	1,783,					
	College Dr Area WM Twinning	40,000	65,000	1,144,250	-	-	1,249,					
	Duke & Sixth Utility Upgrade	76,000	-	773,000	_	-	849,					
	Fillinger Cres Utility Upgrade	-	-	1,694,000	-	_	1,694,					
	Garner Cres Area Utility Upgrade	1,220,200	_	1,054,000		_	1,220					
	Glenayr/Wingrove Area Utility Upgrade	12,000	535,000			_	547					
	Howard Ave Utility Upgrade	-	45,000	-	395.000	_	440					
	Lambert Ave Utility Upgrade	90,000		872,000	333,000	_	962					
	Nanaimo Lakes DR & RHB Project	970,000	_	872,000		_	970					
	Poplar St Utility Upgrade	-	574,000	-	-	-	574					
	Roberta Rd Area Utility Upgrade	_	757,600			_	757					
	Robins St Utility Upgrade	115,000	-	-	-	-	115					
	Seventh St Utility Upgrade	30,000	455,000	-	-	-	485					
	7 10	546,000	455,000	-	-	-	465 546					
	Sherwood Dr Utility Upgrade			-	-	-						
	Terminal South Complete Street & Utility Project	279,400	3,195,400	1,032,200	-	-	4,507					
	Terminal Trench & Utility Project	-	-	65,000	-	1,027,000	1,092					
	Thunderbird Area Utility Upgrade		-	-	145,000	-	145					
	Tom's Turnabout Area Utility Upgrade	540,000	-	-	-	-	540					
	Townsite/Holly Corridor & Utility Project	347,000	-	-	-	-	347					
		Total 6,837,960	6,938,950	5,655,450	602,000	2,504,100	22,538,					
unding Sour	ces:											
	Water DCCs	-	-	111,300	-	-	111					
	General Fund Asset Mgmt Reserve	1,917,000	1,416,000	432,200	-	-	3,765					
	Sewer Fund Asset Mgmt Reserve	120,000	1,317,400	1,450,000	-	-	2,887					
	Water Fund Asset Mgmt Reserve	944,000	-	-	105,000	-	1,049					
	Sewer Reserves	1,560,700	525,000	929,250	340,000	638,500	3,993					
	Water Reserves	1,421,000	2,885,550	1,717,700	157,000	1,396,600	7,577					
	General Revenue	875,260	795,000	1,015,000	-	469,000	3,154					
		Total 6,837,960	6,938,950	5,655,450	602,000	2,504,100	22,538					

2016-2020 Capital Projects Plan (P-C2)

Overview: Concurrent infrastructure projects can include roads, sidewalks, lighting, signals, drainage, sanitary sewer and water infrastructure. Significant benefits are achieved including improved cost efficiencies, optimizing staff resources and reduction in service disruptions to the community when planning and completing multi infrastructure projects in an area at the same time.

The renewal of City infrastructure at end of useful life/deteriorating condition is in compliance with new regulatory standards. Delaying renewal projects can result in higher operating and maintenance expenses, increased safety and service disruption risks and property damage.

The City's Transportation Master Plan (2014) identified recommendations to improve pedestrian, cycling, transit and vehicle mobility within the City. Where cost effective, those recommendations are integrated with concurrent renewal projects – eg. new sidewalks, cycling lanes, improved transit stops.

Funding

Where projects are for renewal of existing infrastructure, funding from asset management reserves has been utilized in addition to general taxation revenues and operating reserves.

Project Descriptions and Benefits:

Major Projects

Bartlett & Venlaw Area Utility Upgrade: Replacement of sanitary sewer and watermain infrastructure that is at end of useful life.

Cinnabar Dr Road Rehab (RHB) & Utility Upgrade: Road surface rehabilitation, drainage, watermain and pressure reducing station infrastructure renewal.

Cliff St Area Corridor & Utility Project: Comprehensive street upgrade project with road surface rehabilitation, sidewalk, crosswalk, street lights, drainage, sanitary sewer and watermain infrastructure renewal.

College Dr Area Watermain (WM) Twinning: Replace water supply main on College Dr., compete twinning of College Drive water supply main to address redundancy needs, replace water distribution (Camosun and Langara) and sanitary sewer infrastructure.

Fillinger Cres Utility Upgrade: Replacement of sanitary sewer and water infrastructure.

Garner Cres Area Utility Upgrade: Replacement of sanitary sewer and watermain infrastructure.

Lambert Ave Utility Upgrade: Drainage and sanitary sewer infrastructure renewal.

Nanaimo Lakes Drainage (DR) & Road Rehab (RHB) Project: Road surface rehabilitation and drainage infrastructure renewal.

Terminal South Complete Street & Utility Projects: Road surface rehabilitation of Terminal Ave from Stewart Ave to St. George, and renewal of drainage, sanitary sewer and watermain infrastructure.

Terminal Trench & Utility Project: Replacement of sanitary sewer and water infrastructure.

2016-2020 Capital Projects Plan (P-E1)

Operating and Capital Funds

Project:

			2016	2017	2018	2019	2020	Total
Project Cos	sts:							
	Fleet - City		22,000	-	-	-	-	22,000
	Fleet - Fire		-	792,000	-	-	-	792,000
	Maintenance Equipment		79,400	-	-	-	-	79,400
	Parking Equipment		325,000	450,000	-	-	-	775,000
	SNIC Equipment		-	-	15,000	-	15,000	30,000
		Total	426,400	1,242,000	15,000	-	15,000	1,698,400
Funding So	ources:							
	Equipment Depreciation Reserve		-	792,000	-	-	-	792,000
	Water Reserves		36,400	-	-	-	-	36,400
	General Revenue		390,000	450,000	15,000	-	15,000	870,000
		Total	426,400	1,242,000	15,000	-	15,000	1,698,400

Equipment & Vehicle Program - New/Upgrade

Project Descriptions and Benefits:

Fleet – City: Purchase of a used vehicle for the new water cross connection control program.

Fleet – Fire: Purchase of a new Type 1 Engine for the new Fire Station #6 on Hammond Bay Road.

Maintenance Equipment: Purchase of a new mower for Parks Operations, 12 hydrant backflow preventers for water cross connection program, and a new portable FloDar to measure storm flows for drainage studies.

Parking Equipment: Installation of new single space and multi-space meters in the Downtown and Old City Quarter areas.

Snow and Ice Control (SNIC) Equipment: Purchase of two new anti-icing tanks.

2016-2020 Capital Projects Plan (P-E2)

Operating and Capital Funds

Reference # Project:

P-E2 Equipment & Vehicle Program - Renewal

		2016	2017	2018	2019	2020	Total
Project Cos	ts:						
	Fleet - City	523,000	910,000	955,000	830,000	1,360,000	4,578,00
	Fleet - Fire	115,000	158,000	892,000	1,440,000	1,332,000	3,937,00
	Furniture & Equipment Replacement	227,800	220,500	117,500	215,500	100,980	882,28
	Gym Fitness Equipment	-	50,000	-	50,000	-	100,00
	Kitchen Equipment - Vancouver Island Conference Centre	-	-	252,000	-	-	252,00
	Maintenance Equipment	158,200	133,650	256,800	169,190	111,945	829,78
	Misc - Fire Equipment	55,200	78,000	68,600	58,132	64,404	324,33
	Misc - Fleet Shop Equipment	5,000	10,000	16,000	10,000	79,720	120,72
	Misc - Survey Equipment	10,000	10,000	10,000	10,000	10,000	50,00
	Parking Equipment	9,000	9,000	-	-	-	18,00
	Parks Amenities	16,200	116,200	116,200	116,200	118,000	482,80
	SNIC Equipment	78,000	-	88,500	-	103,500	270,00
	Zambonis	40,000	180,000	-	-	-	220,00
	Total	1,237,400	1,875,350	2,772,600	2,899,022	3,280,549	12,064,92
unding So	urces:						
	Equipment Depreciation Reserve	708,000	1,283,000	1,888,000	2,305,000	2,796,720	8,980,72
	Facility Development Reserve	146,300	-	-	-	-	146,30
	General Reserves	13,000	9,000	256,000	60,000	4,080	342,0
	Sewer Reserves	20,000	16,000	14,000	21,500	21,500	93,0
	Water Reserves	25,000	10,000	11,200	18,040	16,100	80,3
	General Revenue	325,100	557,350	603,400	494,482	442,149	2,422,4
	 Total	1,237,400	1,875,350	2,772,600	2,899,022	3,280,549	12,064,9
	—						

2016-2020 Capital Projects Plan (P-E2)

Overview: The City utilizes a wide range of vehicles and equipment to deliver services. Renewal programs provide for replacement of vehicles and equipment at the end of their useful life. Delaying replacement can result in higher maintenance costs as well as increased safety and service disruption risks.

Examples of estimated useful life (years) for fleet vehicles and equipment are:

Vehicle/Pickups	10 years
Heavy Equipment/Garbage Trucks	15 years
Fire Apparatus	25 years
Ice Resurfacers (Zambonis)	20 years

Funding

Funding for vehicle replacement is from the Equipment Replacement Reserve.

Funding for equipment replacement is from general taxation revenue or operating reserves.

Internal charges to user departments are used to fund the Equipment Replacement Reserve. Internal charges are unit specific and include recovery of annual operating, insurance and maintenance costs and contribution to the reserve for each unit's replacement.

Project Descriptions and Benefits:

Fleet – City Renewal Program: Replacement of vehicles, pickups, heavy equipment and garbage trucks. Major 2016 purchases include:

- Full Size Single Axle Dump Truck (in-service year 2001) \$185,000
- Small 4x4 Dump Truck (in-service year 2001) \$155,000

Furniture and Equipment Replacement: Replacement of furniture and equipment (excluding copiers) used by City staff.

Gym Fitness Equipment: Cardio, elliptical, strength and treadmill equipment replacement.

Kitchen Equipment – VICC: Replacement of equipment including ice machine, waste processor, ovens, steam cooker, commercial mixers and slicer.

Maintenance Equipment: Replacement of small tools and equipment used by Parks, Construction, Drainage, Sewer, Transportation and Water Operations.

Fleet Shop Equipment: Includes replacement of hoists, welders, lathes, bead machine, pressure washers, and drill press.

Survey Equipment: Replacement of integrated survey control monuments.

Park Amenities: Replacement of play equipment and portable bleachers.

Parking Equipment: Parking meter replacement program.

Snow and Ice Control (SNIC) Equipment Replacement: Replacement of plow and sanders attachments, and anti-icing tanks.

Fleet – Fire: Replacement of fire apparatus and support vehicles.

Fire Equipment Replacement: Replacement of hoses/nozzles, self contained breathing apparatus (SCBA), auto extraction tools, portable radios and intersection controllers.

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2016-2020 Capital Projects Plan (P-F1)

Operating and Capital Funds

Reference #	ŧ	P-I	F1					
Project:		Fa	cilities Infrastru	icture & Ameniti	ies Program - Ne	w/Upgrade		
			2016	2017	2018	2019	2020	Total
Project Costs	5:							
	Fire Station #6: Hammond Bay		2,400,000	-	-	-	-	2,400,000
	Fire Training Centre		-	184,167	-	-	-	184,167
	Police Operations Building : Expansion		40,000	600,000	6,000,000	-	-	6,640,000
	Port Theatre Expansion		5,100,000	6,900,000	-	-	-	12,000,000
		Total	7,540,000	7,684,167	6,000,000	-	-	21,224,167
Funding Sour	rces:							
	General Reserves		-	150,000	-	-	-	150,000
	Government Grants		2,300,000	2,300,000	-	-	-	4,600,000
	Private Contributions		2,800,000	4,600,000	-	-	-	7,400,000
	General Revenue		40,000	34,167	-	-	-	74,167
	Borrowing		2,400,000	600,000	6,000,000	-	-	9,000,000
		Total	7,540,000	7,684,167	6,000,000	-	-	21,224,167

Overview: New and upgraded facilities support new or enhanced levels of service.

New or expanded facilities will increase annual operating and maintenance budgets.

Project Descriptions and Benefits:

Fire Station #6 Hammond Bay Road: The Fire Rescue Standard of Response Coverage Implementation Plan (2005) includes construction and operation of a fire station on Hammond Bay Road. Land has been purchased and construction is planned in 2016.

This facility will operate with 20 additional firefighters and a Type 1 Engine. Additional annual operating and maintenance costs for this facility will be \$2M.

Fire Training Centre: Addition of a steel training tower with stairs to the Fire Training Centre located on Labieux Road.

Police Operations Building Expansion: Expansion of the Police Operations building located on Prideaux Street includes a space needs study in 2016, detailed design in 2017 and construction in 2018. Once the space needs study and detailed design work is completed the cost of construction will be confirmed.

Port Theatre Expansion: The Port Theatre building expansion is contingent on successful grant applications, community sponsorship and other funding options. The planned expansion is for a Community Performing Arts Centre which will include a performance space with seating capacity for 220 persons, rehearsal space and lobby.

2016-2020 Capital Projects Plan (P-F2)

Operating and Capital Funds

Reference # Project:		P-F2 Facilities Infrastructure & Amenities Program - Renewal								
			2016	2017	2018	2019	2020	Total		
Project Costs	:									
	Animal Shelter		6,000	-	25,000	-	-	31,000		
	Aquatics Facilities		272,500	429,400	182,000	1,125,000	70,000	2,078,900		
	Arena Facilities		100,000	80,000	410,000	35,000	10,000	635,000		
	Civic Properties		200,465	-	-	-	-	200,465		
	Condition Assessments		25,000	35,000	35,000	35,000	35,000	165,000		
	Culture & Heritage Facilities		96,069	84,245	338,000	30,500	110,200	659,014		
	Nanaimo Fire Rescue Facilities		44,900	97,870	-	105,800	175,000	423,570		
	Parks Facilities		30,816	-	-	-	7,000	37,816		
	Police Services Facilities		100,000	331,500	84,500	295,000	29,180	840,180		
	Port of Nanaimo Centre		-	60,000	-	-	30,000	90,000		
	Public Works Yard		89,000	131,100	77,475	865,600	103,250	1,266,425		
	Recreation Facilities		256,500	120,000	2,422,000	225,400	235,600	3,259,500		
	Water Facilities		-	-	-	-	12,000	12,000		
		Total	1,221,250	1,369,115	3,573,975	2,717,300	817,230	9,698,870		
Funding Sour										
	Facility Development Reserve		186,000	235,000	405,000	870,000	-	1,696,000		
	General Fund Asset Mgmt Reserve		110,000	234,000	2,100,000	800,000	-	3,244,000		
	General Reserves		75,000	72,100	15,000	-	-	162,100		
	Water Reserves		-	-	-	-	12,000	12,000		
	General Revenue		850,250	828,015	1,053,975	1,047,300	805,230	4,584,770		
		Total	1,221,250	1,369,115	3,573,975	2,717,300	817,230	9,698,870		

2016-2020 Capital Projects Plan (P-F2)

Overview:

The City currently owns and operates over 100 facilities which support delivery of a wide range of services. These facilities include civic office buildings, fire and police buildings, public works yards, recreation facilities, cultural facilities, parkades and the Port of Nanaimo Centre. Facility renewal projects include replacement of existing components within each building to maintain current function and service levels.

Maintenance and renewal of these facilities is complex, as they are made up of many components with different useful lives, functions and operating and maintenance requirements. The 2016 - 2020 Financial Plan includes projects for replacement of roofs, HVAC, mechanical, electrical, plumbing and interior finishing components.

Funding

Reserves that are utilized to fund facility renewal are the Facility Development Reserve (recreation facilities only) and the Asset Management Reserve. Additional funding for facility renewal projects is from general taxation revenues, operating reserves and grants.

A 20% surcharge on recreation fees is transferred to the Facility Development Reserve. This reserve is used to fund recreation facility renewal.

Project Descriptions and Benefits:

Facility renewal projects are many and lower individual costs. In 2016, there are 47 facility renewal projects ranging in costs from \$3,000 to \$110,000.

2016 Major Projects Include:

Caledonia Park/Curling Club, parking lot renewal	\$110,000
Bowen Park, washroom renewal	\$40,000
Fire Station #1, flooring replacement	\$35,000
Frank Crane Arena, wash/dressing room renewal	\$45,000
Kin Pool, cement piping replacement	\$49,000
Port Theatre, windows replacement	\$44,760
Police Operations Building, flooring replacement	\$30,000

2016-2020 Capital Projects Plan (P-IT1)

Operating and Capital Funds

Reference # Project:	P-IT1 Information Technology Infrastructure Program - New/Upgrade							
		2016	2017	2018	2019	2020	Total	
Project Costs:								
Business Applications		317,500	27,500	377,500	-	-	722,500	
Computing Infrastructure		497,000	-	-	-	-	497,000	
	Total	814,500	27,500	377,500	-	-	1,219,500	
Funding Sources:								
General Reserves		560,000	-	350,000	-	-	910,000	
General Revenue		254,500	27,500	27,500	-	-	309,500	
	Total	814,500	27,500	377,500	-	-	1,219,500	

Overview:

: The City's technology equipment, managed by the Information Technology department, maintains systems access for network and business applications.

Funding

Internal charges to user departments based on number of computers help fund upgrades and new network assets.

Project Descriptions and Benefits:

Business Applications includes the purchase, expansion or upgrades to a number of software applications such as:

- **Document Management:** Manage retention and destruction of records in compliance with Records Management Policy.
- **Computerized Maintenance Management System:** To integrate maintenance (work orders), inventory, fleet, and financial control and reporting with corporate utilities asset inventory in GIS.
- Electronics Records Archiving: To manage destruction of records (SAP) in compliance with Records Management Policy.
- Invoice Routing Enhancements: To further automate workflows required for creating invoices.
- Building Permits Electronic Records Conversion
- **Emergency Management Software:** To efficiently manage, track and report during emergency events from the Emergency Coordination Centre.

Computing Infrastructure: Includes Local Area Network (LAN) upgrades for resiliency and security improvements, server for emergency management software, police voice recording system and electronic system to regulate and track RCMP equipment.

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2016-2020 Capital Projects Plan (P-IT2)

Operating and Capital Funds

Reference # Project:		P-IT2 Information Technology Infrastructure Program - Renewal								
		2016	2017	2018	2019	2020	Total			
Project Costs:										
Business App	olications	490,000	195,000	90,000	90,000	90,000	955,000			
Computing In	nfrastructure	291,955	321,400	300,900	406,698	582,825	1,903,778			
	Total	781,955	516,400	390,900	496,698	672,825	2,858,778			
Funding Sources:										
General Rese	erves	676,500	442,000	316,500	422,730	589,000	2,446,730			
General Reve	enue	105,455	74,400	74,400	73,968	83,825	412,048			
	Total	781,955	516,400	390,900	496,698	672,825	2,858,778			

Overview: The City's technology equipment, managed by the Information Technology department, maintains systems access for network and business applications.

Funding

Internal charges to user departments based on number of computers/copiers help fund replacement of network assets.

Funding for most renewal projects is from the Computer Upgrade Reserve.

Project Descriptions and Benefits:

Business Applications: Renewal program includes required upgrades/maintenance or replacement of systems used to deliver City services. Renewals include FireComm software, Microsoft major application replacement and the Recreation Management (CLASS) software.

Computing Infrastructure: Renewal program includes core network components, server hardware, storage and backup systems, and photocopiers.

2016-2020 Capital Projects Plan (P-P1)

Operating and Capital Funds

Reference # Project:	ŧ		P1 arking Infrastruc	ture Program - F	Renewals			
			2016	2017	2018	2019	2020	Total
Project Costs	:							
	Bastion St Parkade		-	-	391,550	260,000	260,000	911,550
	Harbourfront Parkade		48,000	10,000	-	325,000	335,000	718,000
	Port of Nanaimo Centre Parkade		35,000	-	-	-	10,000	45,000
		Total	83,000	10,000	391,550	585,000	605,000	1,674,550
Funding Sou	rces:							
_	General Fund Asset Mgmt Reserve		-	-	391,550	575,000	575,000	1,541,550
	General Reserves		83,000	10,000	-	10,000	30,000	133,000
		Total	83,000	10,000	391,550	585,000	605,000	1,674,550

Overview: The City currently owns and operates three multi-level parkades and five parking lots. Delay in renewal projects can result in higher operating and maintenance costs and increased safety and interruption to service levels risk.

Funding

Net operating revenues from parking operations are transferred to the Parking Reserve. This reserve is used to fund renewal, upgrades and expansion of the City's parking infrastructure.

Project Descriptions and Benefits:

Bastion St Parkade: Replacement of post tension beams/slab strands, membrane renewal, wall/flooring crack repairs and maintenance on exposed concrete wall.

Harbourfront Parkade: Membrane renewal, lighting upgrades (sustainability project – LED lighting tubes), replacement of gas detection sensors and wall/flooring crack repairs.

Port of Nanaimo Centre Parkade: Replacement of gas detection sensors, water infiltration study and wall/ flooring crack repairs.

2016-2020 Capital Projects Plan (P-I1)

Operating and Capital Funds

Reference # Project:	#	P-PI1 Parks Infrastructure Program - New/Upgrade								
			2016	2017	2018	2019	2020	Total		
Project Cost	s:									
	Accessibility Projects		50,000	-	-	-	-	50,000		
	Parks & Playgrounds		200,000	900,000	1,500,000	200,000	200,000	3,000,000		
	Sports Fields		35,000	-	-	-	-	35,000		
	Trail Development		195,310	1,350,000	300,000	300,000	200,000	2,345,310		
		Total	480,310	2,250,000	1,800,000	500,000	400,000	5,430,310		
Funding Sou	irces:									
	Parks DCCs		250,000	250,000	350,000	350,000	250,000	1,450,000		
	Community Works Reserve		-	700,000	1,300,000	-	-	2,000,000		
	Private Contributions		20,000	579,000	-	-	-	599,000		
	General Revenue		210,310	50,000	150,000	150,000	150,000	710,310		
	PILT's		-	671,000	-	-	-	671,000		
		Total	480,310	2,250,000	1,800,000	500,000	400,000	5,430,310		

Overview: Parks infrastructure includes destination parks, neighborhood parks, spray parks, sports fields, playgrounds, tennis/sport courts and trails

Project Descriptions and Benefits:

Accessibility Projects: Installation of a universally accessible safety surface and wheel chair swing in new playground area of Maffeo Sutton Park. The new playground area facilitates universal access, inclusive play and be low-maintenance.

Parks and Playgrounds: Includes Partners in the Park (PIP) program, development of Linley Valley Park and a Harewood Centennial Multi-Use Court.

- The City's Partners in the Parks (PIP) program partners with community volunteers to develop neighbourhood playgrounds and community gardens
- Development of the recently acquired Linley Valley Park will begin with updating the Linley Valley (Cottle Lake) Plan (2006) and mitigation of safety issues and hazards
- The Harewood Centennial Multi-Use Court would be constructed over two years, final costing to be confirmed once design is finalized

Sports Fields: As part of the BC Summer Games legacy, installation of a new sports clock for an artificial turf field.

Trail Development: Include the Doumont Connector, initial planning and development of the E & N Trail, and the Nanaimo Yacht Club Waterfront Walkway in 2017.

2016-2020 Capital Projects Plan (P-PI2)

Operating and Capital Funds

Reference #		P-	PI2						
Project:		Parks Infrastructure Program - Renewals							
			2016	2017	2018	2019	2020	Total	
Project Costs									
	Misc Projects		110,445	72,712	76,352	80,000	84,432	423,941	
	Parks & Playground		71,700	47,675	20,000	20,000	20,000	179,375	
	Sports Fields		130,000	-	-	-	-	130,000	
	Tennis Court Improvements		40,000	-	-	-	20,000	60,000	
	Trail Development		75,400	257,325	25,000	25,000	25,000	407,725	
		Total	427,545	377,712	121,352	125,000	149,432	1,201,041	
Funding Sour	ces:								
	Parks DCCs		-	100,000	-	-	-	100,000	
	General Reserves		20,000	-	-	-	-	20,000	
	General Revenue		407,545	277,712	121,352	125,000	149,432	1,081,041	
		Total	427,545	377,712	121,352	125,000	149,432	1,201,041	

Overview: The City's current park amenities include:

13 destination parks including Maffeo Sutton and Westwood Lake parks 87 neighborhood parks 4 spray parks 23 sports fields including 2 artificial turf fields 61 playgrounds 12 tennis/sport courts over 140 kilometers of trails 2 highway gateways 3 boat ramps 7 dams in recreational areas

Project Descriptions and Benefits:

2016 Major Projects Include:

Robins Park, backstop replacement	\$100,000
Comox Park, safety surfacing	\$51,700
Beban Tennis Courts, court resurfacing	\$40,000
Westwood Lake, boardwalk replacement	\$30,000

2016-2020 Capital Projects Plan (P-SS1)

Operating and Capital Funds

Reference #	P-	SS1							
Project:	Sanitary Sewer Infrastructure Program - New/Upgrades								
		2016	2017	2018	2019	2020	Total		
		2010	2017	2010	2015	2020	Total		
Project Costs:									
Mains		3,099,000	60,000	3,225,000	600,000	430,000	7,414,000		
	Total	3,099,000	60,000	3,225,000	600,000	430,000	7,414,000		
Funding Sources:									
Sewer DCCs		2,075,000	-	-	-	430,000	2,505,000		
Sewer Reserves		1,024,000	60,000	3,225,000	600,000	-	4,909,000		
	Total	3,099,000	60,000	3,225,000	600,000	430,000	7,414,000		

Overview:

New/upgraded sanitary sewer infrastructure projects to address current and future capacity issues. Delaying projects may constrain future development, increase risks of service disruption and property damage, increase annual operating and maintenance costs, and may negatively impact public health and safety.

Funding

Expansion to the City's sanitary sewer infrastructure is generally funded from the Development Cost Charges reserve.

Project Descriptions and Benefits:

Jingle Pot to East Wellington (DCC SS17): Increase capacity (upsize pipe) identified in 2012 Millstone Trunk Sewer Master Plan.

Chase River Trunk (DCC SS45): New pump station and forcemain to address capacity identified in 2014 Chase River Master Plan.

Park Ave Sanitary Sewer (6th Street to 740 Park): Increase capacity identified in 2014 Chase River Master Plan.

Hammond Bay Road Sanitary Sewer: McGirr Rd to Kenwill, Turner Rd to Kenning PI (DCC SS44): Increase capacity (upsize pipe) identified in 1996 Hammond Bay Sanitary Sewer Trunk Study.

2016-2020 Capital Projects Plan (P-SS2)

Operating and Capital Funds

Reference # Project:			P-SS2 Sanitary Sewer Infrastructure Program - Renewals							
			2016	2017	2018	2019	2020	Total		
Project Costs:										
-	Condition Assessment Program		475,000	460,000	485,000	460,000	485,000	2,365,000		
	Design		60,000	60,000	60,000	60,000	60,000	300,000		
	Mains		475,000	1,258,200	645,000	1,532,000	3,003,602	6,913,802		
		Total	1,010,000	1,778,200	1,190,000	2,052,000	3,548,602	9,578,802		
Funding Sourc	es:									
	Sewer Fund Asset Mgmt Reserve		-	-	100,000	500,000	2,400,000	3,000,000		
	Sewer Reserves	_	1,010,000	1,778,200	1,090,000	1,552,000	1,148,602	6,578,802		
		Total	1,010,000	1,778,200	1,190,000	2,052,000	3,548,602	9,578,802		

Overview:

Annual renewal program to replace sanitary sewer infrastructure at the end of its useful life. Replacement is in compliance with new regulatory standards. Delaying renewal projects can result in higher annual operating and maintenance expenses, and increased risks to public health, safety, service disruption and property damage.

Current sanitary sewer infrastructure includes over 548 kilometres of mains and 16 lift stations.

Funding

Funding for sanitary sewer infrastructure renewal is from sewer reserves including the Sewer Asset Management Reserve.

Project Descriptions and Benefits:

Condition Assessment Program: Annual program to assess critical sanitary sewer mains. Information is used to identify priority projects for five year Financial Plans that minimize infrastructure failure, surcharging and backflow events.

Mains: Renewal program to replace sanitary sewer mains at end of useful life.

Design and construction of main replacement program is higher in 2017 due to projects planned for Rosstown Lane, Loudon Park Shoreline and Rock City Easement.

2016-2020 Capital Projects Plan (P-SD1)

Operating and Capital Funds

Reference # Project:	1	P-SD1 Drainage Infrastructure Program - Renewal								
			2016	2017	2018	2019	2020	Total		
Project Costs	:									
	Condition Assessment Program		150,000	200,000	200,000	200,000	200,000	950,000		
	Design		50,000	50,000	50,000	50,000	50,000	250,000		
	Mains		132,000	280,000	400,000	1,202,000	794,000	2,808,000		
		Total	332,000	530,000	650,000	1,452,000	1,044,000	4,008,000		
Funding Sour	rces:									
	General Fund Asset Mgmt Reserve		-	-	-	602,000	-	602,000		
	General Revenue		332,000	530,000	650,000	850,000	1,044,000	3,406,000		
		Total	332,000	530,000	650,000	1,452,000	1,044,000	4,008,000		

Overview:

Annual renewal program to replace drainage infrastructure at the end of its useful life. Replacement is in compliance with new regulatory standards. Delaying renewal projects can result in higher annual operating and maintenance expenses, and increased risks to public health, safety, service disruption and property damage.

Current drainage infrastructure includes over 423 kilometres of mains.

Funding

Funding for drainage renewal projects is generally from property taxation revenues.

Project Descriptions and Benefits:

Condition Assessment Program: Annual program to assess current condition and determine remaining useful life of drainage infrastructure. Information is used to identify priority projects for five year Financial Plans that minimize risks of infrastructure failure, surcharging and flooding events.

Mains: Program to replace and upsize drainage mains with capacity, condition/operating and maintenance issues.

2016-2020 Capital Projects Plan (P-T1)

Operating and Capital Funds

Reference # Project:	ŧ	P-T1 Transportation Infrastructure Program - New/Upgrade								
rioject.			ansportation in	rastructure rrog	ann - New opg	laue				
			2016	2017	2018	2019	2020	Total		
Project Costs										
	Cycling Amenities		165,000	641,500	299,500	560,000	450,000	2,116,000		
	Design		100,000	-	-	-	-	100,000		
	Pedestrian Amenities		91,200	69,400	37,200	121,400	321,400	640,600		
	Pedestrian/Cycling Amenities		25,000	40,000	40,000	40,000	40,000	185,000		
	Street Lights		6,000	6,000	6,000	6,000	6,000	30,000		
	Traffic Improvements		-	-	88,400	500,000	82,800	671,200		
	Transit Improvements		-	-	-	-	270,000	270,000		
		Total	387,200	756,900	471,100	1,227,400	1,170,200	4,012,800		
Funding Sou	rces:									
	Roads DCCs		100,000	-	-	-	-	100,000		
	General Reserves		6,000	6,000	6,000	6,000	6,000	30,000		
	General Revenue		281,200	750,900	465,100	1,221,400	1,164,200	3,882,800		
		Total	387,200	756,900	471,100	1,227,400	1,170,200	4,012,800		

Overview: The City's Transportation Master Plan (2014) provides direction on expansion/upgrades to the City's transportation infrastructure.

To support a multi mode transportation network new/upgraded pedestrian, cycling, transit and vehicle amenities will be integrated into concurrent projects as well as identified as individual projects.

Funding Funding for new/upgraded transportation infrastructure is generally from property taxation revenues.

Project Descriptions and Benefits:

Cycling Amenities: Development of the City's cycling network, 2016 projects include the Second Street Bikeway (Jingle Pot Rd to Wallace St.) and the design for Bruce Ave (4th St. to Bowen Rd) scheduled for construction in 2018.

Pedestrian Amenities: Includes countdown timers, audible signals, and flashers at intersections and crosswalks.

Pedestrian/ Cycling Amenities: Includes traffic calming amenities.

Street Lights: Sustainability initiative to reduce annual operating costs through street lighting reductions.

Traffic Improvements:

- Hammond Bay Rd @ Rutherford Rd Signal Upgrade 2018
- Jingle Pot Rd @ Westwood Rd New Signal 2019 •
- Comox Rd @ Wallace St Signal Upgrade & Countdown Timer 2020

2016-2020 Capital Projects Plan (P-T2)

Operating and Capital Funds

Reference #		P-	-T2							
Project:		Transportation Infrastructure Program - Renewals								
			2016	2017	2018	2019	2020	Total		
Project Costs:	:									
	Bridges		115,000	590,000	6,000,000	-	-	6,705,000		
	Condition Assessment Program		100,000	-	-	100,000	-	200,000		
	Planning & Design		100,000	100,000	100,000	100,000	100,000	500,000		
	Railway Crossings		25,000	25,000	25,000	25,000	25,000	125,000		
	Road Rehabilitation		1,019,100	368,000	1,177,800	1,660,000	1,557,000	5,781,900		
	Sidewalk Maintenance Program		-	50,000	-	50,000	-	100,000		
	Street Lights		50,000	550,000	50,000	50,000	50,000	750,000		
		Total	1,409,100	1,683,000	7,352,800	1,985,000	1,732,000	14,161,900		
Funding Sour	ces:									
	General Fund Asset Mgmt Reserve		500,000	400,000	-	475,000	-	1,375,000		
	General Revenue		909,100	1,283,000	1,352,800	1,510,000	1,732,000	6,786,900		
	Borrowing		-	-	6,000,000	-	-	6,000,000		
		Total	1,409,100	1,683,000	7,352,800	1,985,000	1,732,000	14,161,900		

Overview:

A road condition assessment program is completed every three to five years and information is updated to the City's pavement management system. The system generates optimum road surface replacement schedules. Delaying road surface replacement can result in degradation of the road bed and higher lifecycle costs.

Transportation infrastructure includes over 1,100 kilometres of roadways, 400 kilometres of sidewalks, 15 bridge structures, over 3,500 street lights and 85 traffic signals.

Funding

Funding for transportation infrastructure renewal is from property taxation revenues.

Planned borrowing in 2018 for the Wellcox Trestle replacement will be repaid from general taxation revenues.

Project Descriptions and Benefits:

Bridges: Includes major maintenance of the Bastion Street Bridge in 2017 and replacement of Wellcox Trestle in 2018.

Condition Assessment Program: Road condition survey program. Information provides current condition and remaining useful life for City roads, and is used to prioritize road rehabilitation projects for five year Financial Plans.

Road Rehab 2016 Projects:

- Oceanview Terrace (Norasea to Bayshore)
- Howden Drive (Ross to End)
- Museum Way (Commercial to back of Port of Nanaimo Centre)
- Terminal Preservation
- Pavement Preservation Program

Street Lights: Downtown street lighting renewal is planned in 2017.

2016-2020 Capital Projects Plan (P-W1)

Operating and Capital Funds

Reference # Project:	P-W1 Water Infrastructure Program - New/Upgrade							
		2016	2017	2018	2019	2020	Total	
Project Costs:								
Distribution Mains		533,000	16,000	715,606	-	-	1,264,606	
Pump Station/PRV Program		-	-	-	-	200,000	200,000	
Reservoirs		-	800,000	-	1,600,000	-	2,400,000	
Supply Mains		2,110,000	5,110,000	-	-	-	7,220,000	
Water Supply Dams		-	3,000,000	500,000	-	-	3,500,000	
	Total	2,643,000	8,926,000	1,215,606	1,600,000	200,000	14,584,606	
Funding Sources:								
Water DCCs		2,060,500	4,432,500	-	-	150,000	6,643,000	
Water Reserves		582,500	4,493,500	1,215,606	1,600,000	50,000	7,941,606	
	Total	2,643,000	8,926,000	1,215,606	1,600,000	200,000	14,584,606	

Overview: New/upgraded water infrastructure projects increase capacity and provide redundancy within the system. The long-term water supply plan models future demand due to growth, and provides guidance for capital investment needed to maintain an adequate water supply for the City.

Funding

Expansion to the City's water infrastructure is generally funded from Development Cost Charges reserves and user fees. The recently constructed water treatment plant included significant grant funding from senior governments.

Project Descriptions and Benefits:

Distribution Mains: Includes Departure Bay Rd, Holland & East Wellington Looping, Nanaimo Parkway and King Rd.

Pump Station/PRV Program: Upgrade to Labieux booster pump station to meet increasing water demands.

Reservoirs:

- Towers Reservoir new duplicate reservoir to address capacity/fire flows issues.
- Vanderneuk Reservoir land acquisition, new reservoir required for development in North Nanaimo, construction planned in late 2020s.

Supply Mains:

- Duplicate Supply Main from #1 Reservoir to College Park to address capacity issues in North Nanaimo and support development.
- Emergency Water Supply Pump Station once complete the project will allow water to be pumped from the Harmac system to city network, water supply main was installed 2010.

Dams:

- Jump Creek II Dam planning and land acquisition.
- South Fork Dam seismic upgrades.

2016-2020 Capital Projects Plan (P-W2)

Operating and Capital Funds

Reference # Project:

P-W2 Water Infrastructure Program - Renewal

			2016	2047	204.0	2010	2020	Tatal
			2016	2017	2018	2019	2020	Total
Project Costs:								
Conditio	n Assessment Program		130,000	155,000	100,000	125,000	100,000	610,000
Design			60,000	60,000	60,000	60,000	60,000	300,000
Distribut	ion Mains		2,554,000	2,494,000	3,193,000	4,764,400	3,670,100	16,675,500
Misc Pro	ects		460,000	360,000	360,000	360,000	360,000	1,900,000
Pump Sta	tion/PRV Program		175,000	380,000	200,000	150,000	650,000	1,555,000
Reservoi	rs		75,000	-	75,000	-	-	150,000
Supply N	ains		50,000	-	-	-	-	50,000
Water Su	pply Dams		118,000	119,000	119,500	120,000	122,000	598,500
		Total	3,622,000	3,568,000	4,107,500	5,579,400	4,962,100	21,839,000
Funding Sources:								
Water Fu	nd Asset Mgmt Reserve		640,000	124,000	186,000	1,759,200	-	2,709,200
Water Re	serves		2,982,000	3,444,000	3,921,500	3,820,200	4,962,100	19,129,800
		Total	3,622,000	3,568,000	4,107,500	5,579,400	4,962,100	21,839,000

Overview: Annual renewal program to replace water infrastructure at the end of its useful life. Replacement is in compliance with new regulatory standards. Delaying renewal projects can result in higher operating and maintenance expenses, increased risks to public health, safety, and service disruption and property damage.

Water infrastructure includes dams, reservoirs, water treatment facility and over 600 kilometres of water supply and distribution mains.

Funding

Renewal projects are funded from water reserves including the Water Asset Management Reserve

Project Descriptions and Benefits:

Condition Assessment Program: An annual program to assess the current condition and remaining useful live of water infrastructure. Information is used to prioritize projects for five year Financial Plans.

Mains: Program to replace and upsize watermains with capacity, condition/operating and maintenance issues. 2016 projects include:

- Fourth St (Wakesiah to Harewood) •
- Marban/Alberta
- Eberts St (Millstone to Townsite) •
- Wall St (Pythian Lane to Curling Club) •
- Lundgren Esmt (Labieux to End) •

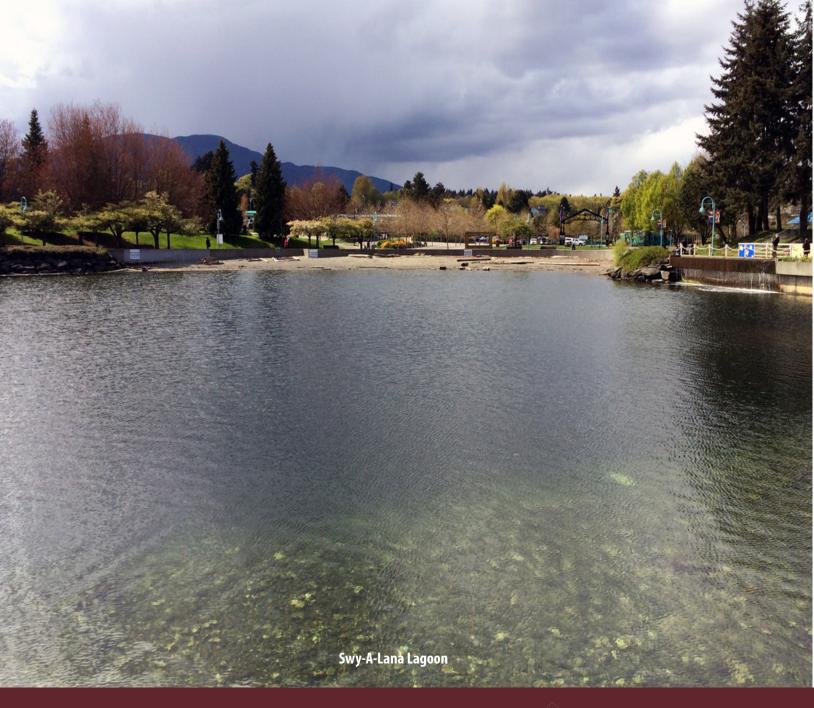
Misc Projects: Water meter replacement program as identified in the 2012 Water Audit, decommissioning of Water Process Centre, and telemetry improvements.

Pump Station/PRV Program: Includes renewal of Towers Pump Station and PRV replacement program. 2016 PRV project:

Bay and Neyland •

Dams: Includes formal annual dam inspections, and dam safety upgrades to incorporate recommendations from last Dam Safety Review (2013).





2016 - 2020 Financial Plan

Appendix A

RESERVE FUNDS

Asset Management Fund

Revenues are from property taxation, sanitary sewer user fees and waterworks user fees. The funds can be used for infrastructure renewal projects.

Cemetery Reserve Fund

In accordance with the *Cemetery Care Act* a portion of the cemetery revenue from plot sales and marker installations must be set aside to fund ongoing care of the cemetery. Although the contributions must be set aside in perpetuity, the investment income can be used to fund maintenance of the cemeteries.

Community Works Fund

Funding for this reserve comes from the Federal Government via UBCM for the Gas Tax Agreement. Additional revenues is earned from investing unspent funds. The funding can only be used for projects that meet the desired outcomes of greenhouse gas emission reduction, cleaner air and cleaner water.

Development Cost Charge Reserve Fund

Revenue comes from development cost charge fees levied and investment income. The funds can only be used for projects identified in the Development Cost Charge bylaws.

Equipment Depreciation Reserve Fund

The net "revenue" from the operations of the City fleet is placed in this reserve. The revenue is from charging user departments for fleet use. Additional revenue is earned from investing unspent funds. The funds are used for fleet replacements.

Facility Development Reserve Fund

A 20% surcharge on recreation fees is transferred to this fund. Additional revenue is earned from investing unspent funds. The funds are used for new Parks, Recreation and Culture facilities or improvements to existing facilities.

Knowles Estate Reserve Fund

The funding for this reserve came from the estate of the late Arthur Knowles. The accumulated interest each year can only be used for park and youth sport facility improvements in the south end of Nanaimo.

Appendix A - continued

RESERVE FUNDS

Local Improvement Reserve Funds

Revenue is from investment income. The funds may be used to fund small local improvement projects although there are none budgeted in the current Five-Year Financial Plan.

Old City Neighbourhood Parking Fund

Developers of commercial properties in the Old City Neighbourhood have the ability to opt out of the requirement to provide on-site parking at a cost of \$3,000 per space. Any proceeds received are placed in this reserve fund. Additional revenue is earned from investing unspent funds. The funds may be used to provide off-street parking in the Old City Neighbourhood.

Parkland Dedication Reserve Fund

Revenue is from cash-in-lieu contributions received in lieu of parkland dedication and investment earnings. The funds can only be used for parkland acquisition.

Property Sales Reserve Fund

Proceeds from the sale of civic properties are placed in this reserve fund. Additional revenue is earned through investments. The funds can be used for any capital project.

Regional Emission Reduction Reserve Fund

Revenues are contributed through adopted Financial Plans. Revenues are a calculation of the corporate net GHG emissions. The funds can be used for regional emission reduction initiatives that contribute to corporate carbon neutral operations.

Appendix B

GOVERNING POLICY AND REGULATORY REQUIREMENTS

Governing Policy and Regulatory Requirements

The *Community Charter* requires that a Five-Year Financial Plan for both the operating and capital expenditures be adopted by May 15th of the first year of the plan. In addition, the *Community Charter* directs that the public must be consulted prior to adoption of the Financial Plan.

Balanced Budget

In compliance with Section 165 of the *Community Charter*, the City's Five Year Financial Plan must be balanced. The total of proposed expenditures and transfers to other funds for a year must not exceed the total of proposed funding sources and transfers from other funds for the year.

Investment Policy

It is the policy of the City of Nanaimo to invest City funds in a secure manner which will provide the optimal blend of investment security and return while meeting the daily cash flow demands of the City and complying with the statutory requirements of the *Community Charter*.

Revenue Policy

In compliance with the Community Charter, the City has adopted a Revenue Policy.

1. Proportion of revenue by source

Property taxes

- The City of Nanaimo will attempt to keep the proportional share of revenue from property taxes at a level similar to the average of comparable municipalities.
- Where new sources of revenue are made available to the City from senior governments, wherever possible, these revenues will be used to reduce dependency on property taxation revenue.

Parcel taxes

• Parcel taxes will be used whenever Council determines that they are more appropriate than property taxes.

Fees and Charges

• Wherever possible, fees and charges will be used to assign costs to those who benefit from the service provided; the proportion of the costs recovered by fees and charges will vary with the nature of the service provided.

Appendix B - continued

GOVERNING POLICY AND REGULATORY REQUIREMENTS

Proceeds of borrowing

- Borrowing will be considered when determining the funding sources of large capital projects that provide benefits to taxpayers over a long period of time (20 years or more).
- Council will consider a policy to identify an appropriate level of debt for the community.

Other sources of revenue

- The City will continue to seek other sources of revenue in order to reduce reliance on property taxes.
- The City will consider hydro electric power generation where practical and environmentally supportable.
- 2. Distribution of property taxes among the classes
 - The City of Nanaimo will maintain the percentage of property taxes received from residential taxpayers at a level comparable to the average of similar municipalities.
 - The City will attempt, over time, to reduce the commercial tax rate to the average of all BC municipalities.
 - Between 2009 and 2013, the light and major industrial tax rates will be reduced to the same level as the commercial tax rate.
- 3. Permissive Tax Exemptions
 - The City of Nanaimo believes that Permissive Tax Exemptions are an appropriate way to recognize the value of the services provided to the community by non-profit organizations.
 - Permissive Tax Exemption requests will be reviewed by the Grants Advisory Committee based on policies and guidelines approved by Council. The Committee will make recommendations to Council.
 - Permissive Tax Exemptions will be reviewed at least every three years to ensure that the organization and property still meets the criteria established by Council.
- 4. Revitalization Tax Exemptions
 - The City of Nanaimo believes that Revitalization Tax Exemptions are an appropriate tool to assist the City in realizing its strategic objectives.
 - The City can exempt municipal taxes for up to ten years for projects undertaken by landowners, where the project meets defined objectives of a City strategy.
 - Recipients of exemptions must enter into a Revitalization Tax Exemption Agreement with the City.
 - Every Revitalization Tax Exemption must be approved by Council.

Appendix C

City of Nanaimo Statistics

According to the 2011 census data, Nanaimo is the fifth fastest growing medium sized population centre in BC. The City's 2011 population was 83,810, an increase of 5,118 net new citizens since 2006. This represents a 6.5% increase in population since 2006, and an average annual growth rate of 1.3%.

Land area is 91.30 square kilometres with a population density of 918.0 persons per square kilometre. This compares to the provincial land area of 922,509.29 square kilometres with a population density of 4.8 persons per square kilometre.

Summary Statistics	City of Nanaimo	BC	Canada
Source: Statistics Canada, 2011			
Median Age, 2011	44.8	41.9	40.6
Median Age, 2006	43.2	40.8	39.5
Families and Households	23,885	1,238,155	9,389,695
Married couple families	66.7%	71.7%	67.0%
Common law couple families	15.5%	13.0%	16.7%
Lone Parent Families	17.8%	15.3%	16.3%
Total private households	36,205	1,764,635	13,320,615
Couple family with children	19.4%	24.4%	26.5%
Couple family without children	32.6%	30.2%	29.5%
Lone parent families	17.8%	15.3%	16.3%
One person	30.2%	28.2%	27.6%
Multiple family	1.5%	2.9%	2.0%
Other	5.4%	4.7%	4.1%
Structural type of dwelling	36,205	1,764,640	13,320,615
Single detached house	58.9%	47.7%	55.0%
Semi detached house	4.8%	3.0%	4.9%
Row house	4.4%	7.4%	5.9%
Apartment	29.4%	39.1%	32.6%
Other	2.5%	2.8%	1.6%

The following lists the major employers in Nanaimo as of December 1, 2011

- School District #68
 - Nanaimo Regional General Hospital
- Vancouver Island University
- British Columbia Ferry Service Inc.
- Shaw Cable
- City of Nanaimo
- Nordia
- WalMart
- Dept. of Fisheries & Oceans
- Costco Wholesale
- The Real Canadian Superstore
- Coastal Community Credit Union
- Thrifty Foods

Appendix D

Glossary

Asset Management

Asset management includes the planning, design, construction, operation and maintenance of infrastructure used to provide services. Asset management is a primary function of local government.

Assessed Value

The value calculated for each parcel of real property using appraisal criteria established by the B.C. Assessment. Each property reflects market prices of the land and its improvements and recognizes any change of use. These values are the basis of levying property taxes.

B.C. Assessment

The provincial agency, also known as the B.C.A., is assigned to appraise and evaluate all real property within British Columbia.

CUPE

The Canadian Union of Public Employees.

CVRD

Cowichan Valley Regional District.

Debt Services

Annual principle and interest payments on contracted debt.

Development Cost Charges (DCC)

A fee imposed on new development to assist in the funding of future off-site services (infrastructure) which is needed, in part, by the new development.

Expenditures

The cost of goods and services, received for both the regular City operations and all projects (operating and capital).

Appendix D - continued

Glossary

Financial Plan

Under Section 165 of the *Community Charter*, following public consultation, Council must adopt a five-year financial plan, by bylaw and before May 15 each year. The plan must identify proposed expenditures, funding sources and transfers between funds.

FTE

Full time equivalent staffing positions.

Fund

A fiscal entity of self balancing accounts used by governments to control common financial activities.

GAAP

General Accepted Accounting Principles used to guide accounting professional practices and methods.

GIS

Geographical Information System.

Grant

A financial contribution to or from governments.

Grants in Lieu of Taxes (GILT)

Revenues received from senior governments and other organizations, which are exempt from property taxes.

IAFF

International Association of Fire Fighters.

Operating Expenditures

The cost of goods and services, received for regular City operations only. Does not include operating or capital projects.

PILTs

Payment in Lieu of Taxes. The City receives payments from utility corporations and the Nanaimo Port Authority in lieu of property taxes.

Appendix D - continued

Glossary

Projects

Includes annual asset renewal programs or one time expenditures for new infrastructure or services. Excludes operating expenditures.

PSAB

The Public Sector Accounting and Auditing Board.

RDN

Regional District of Nanaimo.

Regional Parks Agreement

Cost sharing agreement between the City and the Regional District of Nanaimo where the Regional District contributes to portion of City's annual costs for operating recreation and sports field facilities.

Reserves

Discretionary funds established to pay for specific projects.

Revenues

Sources of income received by the City. They include property taxes, user fees, grants, permits and licenses, fines, grants, interest.

SCBA

Self-contained breathing apparatus.

Tax Rates

The annual charges for levying property taxes to properties within the City. These rates are applied against each \$1,000 of assessed value.

THE CITY OF NANAIMO





Mayor and Council

This year, the Engineering and Public Works Department has created Project Summary Sheets to accompany the Draft 2016-2020 Financial Plan. There is a separate sheet for each (Engineering & Public Works) project in the 2016 Capital Plan and sheets are organized to match the order presented in the Project Plan pages.

Project Summary Sheets include the following information:

Budget Book Reference:

• Provides the reference number used in chapter 6 of the Draft 2016 – 2020 Financial Plan.

Project:

• Project number and title.

Expenditure/Budget:

• Indicates the total project cost on a year to year basis and identifies major project categories.

Funding:

• Identifies how the project will be funded.

Asset Category:

• Identifies if the project is a renewal, new/upgrade or strategic.

Project Description:

• This gives a brief description of what is involved in the project and its location.

Justification:

• Identifies the reason the project is proposed. This section is not present on all.

Communication Plan:

• Identifies how staff are proposing to communicate with stakeholders and the public related to the project. This section has not been fully implemented for all projects but will be moving forward.

Project Map:

• Identifies the project components on a map pertaining to the location of the project.

As indicated above, these sheets only pertain to projects in the 2016 year of the Draft 2016-2020 Capital Plan. It is the intent that in future years there will be a project summary sheet for all Engineering and Public Works projects in the Five Year Capital Plan.

These sheets are a work in progress and will be refined as we move forward. Any input that Council could provide related to the usefulness of the sheets, would be appreciated.

Budget Book Reference:	P-S1 (Grants)			
Project:	I/O 90005 Toilet Rebate Program			
2016 Budget:	\$ 100,000			
2016 Funding:	Water Revenue			
Asset Category:	Strategic			
Project Description:	The program provides home owners with a \$50 rebate, upon proof of installation, for replacing toilets using 13 litres of water or more per flush with a CSA-approved low-flow model.			
	Building on the success of the single family residential properties program, the toilet rebate program was increased in 2015 by \$50,000 to accommodate multi-family residential properties.			

Budget Book Reference:	P-S1 (Grants)			
Project:	I/O 90013 Water Supply: Appliance Rebate Program			
2016 Budget:	\$ 30,000			
2016 Funding:	Water Revenue			
Asset Category:	Strategic			
Project Description:	In partnership with BC Hydro, the program provides a rebate to home owners for the purchase of qualified clothes washers (ENERGY STAR ^R). Rebates are \$100 or \$200 depending on the maximum water factor and modified energy factor. The program consists of a Spring and Fall intake and is administered by BC Hydro.			

Budget Book Reference:	P-S1			
Project:	I/O 90024 Public Education of Water System			
2016 Budget:	\$ 65,000			
2016 Funding:	Water Supply Reserve			
Asset Category:	Strategic			
Project Description:	Development of education material including a video and display boards to enhance the public's understanding of the City's water system. The Water Treatment Plant will house the completed display boards.			

Budget Book Reference:	P-S1 (Transportation Initiatives)			
Project:	I/O 50040 Alternate Transportation Education and Marketing			
2016 Budget:	\$ 7,500			
2016 Funding:	General Revenue			
Asset Category:	Strategic			
Project Description:	Promotion of alternative modes of transportation to help shift travel behaviours; fund events such as Bike to Work Week/Bike to School Week and the transit/cycling map.			

Budget Book Reference:	P-S1 (Transportation Initiatives)			
Project:	I/O 50033 Transportation Pedestrian: Safer School Travel Program			
2016 Budget:	\$ 10,000			
2016 Funding:	General Revenue			
Asset Category:	New/Upgrade			
Project Description:	Program improves safe student access to/from schools for pedestrians and cyclists. Typically is used to support larger projects that improve student access/safety or fund smaller projects raised by schools.			

Budget Book Reference:	P-S3 (Drainage)			
Project:	I/O 50047 Drainage Studies/Predesign			
2016 Budget:	\$ 21,450			
2016 Funding:	General Revenue			
Asset Category:	Strategic			
Project Description:	Annual studies to complete a comprehensive review of the drainage infrastructure within a catchment. The review includes evaluation of condition and capacity as well as prioritization for renewal and upgrading before potential failure, surcharging and flooding occurs.			

Budget Book Reference:	P-S3 (Community Planning)			
Project:	I/O 50035 City Orthophotos			
2016 Budget:	\$ 25,000			
2016 Funding:	General Revenue			
Asset Category:	Strategic			
Project Description:	As part of an ongoing remote sensing program designed to acquire data that supports a broad scope of organizational and business needs.			
	This phase of the work is anticipated to include updates to orthophotos and/or potentially oblique view imagery.			

Budget Book Reference:	P-S3 (Sanitary Sewer)			
Project:	I/O 80004 Sanitary Sewer Studies			
2016 Budget:	\$ 50,000			
2016 Funding:	Sewer Reserve			
Asset Category:	Strategic			
Project Description:	Annual studies to complete a comprehensive review of sanitary sewer infrastructure within a catchment. The review includes an evaluation of condition and capacity, as well as prioritization for renewal and upgrading before potential failure, surcharging and backflow occurs.			

Budget Book Reference:	P-S3 (Sanitary Sewer)			
Project:	I/O 80018 Sanitary Sewer Study: Townsite and Brechin Master Plan			
2016 Budget:	\$ 50,000			
2016 Funding:	Sewer Reserve			
Asset Category:	Strategic			
Project Description:	A master plan is a comprehensive review of the sanitary infrastructure within a catchment. The review includes an evaluation of condition and capacity, as well as prioritization for renewal and upgrading.			
	The 2014 City Wide Sewer Model provided a priority sequencing of the remaining sewer master plans to be completed. The Townsite and Brechin catchment area master plan was ranked as the highest priority. The master plan will identify condition and capacity issues within the catchment area.			

Budget Book Reference:	P-S3 (Sanitary Sewer)			
Project:	I/O 80020 Sanitary Sewer Study: Fillinger Cres Routing Study			
		2015	2016	Total
Budget:	Study	\$ 12,000	\$ 40,000	\$ 52,000
Funding:	Sewer Reserve	\$ 12,000	\$ 40,000	\$ 52,000
Asset Category:	Strategic			
Project Description:	A study is required to determine options for relocating the sanitary sewer line prior to replacement. A geotechnical review has already indicated that the current location along the edge of a bank is problematic and replacing the pipe in the same location is not recommended. The sanitary sewer line will need to be replaced on either Fillinger Crescent or on the shore.			

Budget Book Reference:	P-S3 (Transportation)			
Project:	I/O 50007 Traffic Counters			
2016 Budget:	\$ 15,000			
2016 Funding:	General Revenue			
Asset Category:	Strategic			
Project Description:	Monitoring of traffic volumes at major intersections, typically on a four year cycle, with data used for transportation planning and to adjust traffic signal parameters/optimize performance.			

Budget Book Reference:	P-S3 (Transportation)
Project:	I/O 50114 Transportation Planning Studies
2016 Budget:	\$ 50,000
2016 Funding:	General Revenue
Asset Category:	Strategic
Project Description:	Transportation planning studies address existing and future issues within the transportation network; used to address issues as they arise through the year.

Budget Book Reference:	P-S3 (Water Distribution)
Project:	I/O 70005 Water Studies
2016 Budget:	\$ 50,000
2016 Funding:	Water Reserve
Asset Category:	Strategic
Project Description:	Annual studies to complete a comprehensive review of the water distribution infrastructure within a pressure zone. The review includes an evaluation of condition and capacity, as well as prioritization for renewal and upgrading to maintain minimum operating pressures and required fire flows.

Budget Book Reference:	P-S3 (Water Supply)
Project:	I/O 90014 Water Supply: Water Audit Updates
2016 Budget:	\$ 10,000
2016 Funding:	Water Supply Reserve
Asset Category:	Strategic
Project Description:	Update of the inaugural 2012 Water Audit. The update will review existing water usage and accounting measures; identify where and how improvements can be made to quantify and characterize water usage, consumption, unaccounted amounts and determine a representative system leakage index.

Budget Book Reference:	S3 (Water Supply)									
Project:	I/O 90016 Water Supply: Water Conservation Strategy									
2016 Budget:	\$ 30,000									
2016 Funding:	ater Supply Reserve									
Asset Category:	Strategic									
Project Description:	To continue progress towards the target of a 10% reduction in per capita water demand per decade as set out in the City of Nanaimo Strategic Plan (2012-2015). Current water conservation measures in place include water regulations, education, and rebates.									

Budget Book Reference:	P-C1	
Concurrent Project:	Boxwood Con	nector & Utility Project
Components:	P_5157 P_5164 P_5193 P_6174 P_7290	DCC R85 (100 % Growth) Boxwood Connector: Bowen to Northfield DCC R49 (82% growth) Northfield (Bowen to Boxwood) Boxwood Connector Pond DR Boxwood Connector & Utility Project Boxwood Connector & Utility Project
		Total Drainst

					Т	otal Project
		2016		2018		Cost
Drainage - Design	\$	30,000	\$	-	\$	30,000
Drainage - Construction	\$	-	\$	300,000	\$	300,000
Transportation	\$	1,550,000	\$	5,510,000	\$	7,060,000
Sanitary Sewer - Design	\$	45,000	\$	-	\$	45,000
Sanitary Sewer - Construction	\$	-	\$	685,000	\$	685,000
Watermain - Design	\$	50,000	\$	-	\$	50,000
Watermain - Construction	\$	-	\$	521,000	\$	521,000
	\$	1,675,000	\$	7,016,000	\$	8,691,000
Roads DCC's	\$	1,550,000	\$	5,382,200	\$	6,932,200
Sewer Reserve	\$	45,000	\$	685,000	\$	730,000
Water Reserve	\$	50,000	\$	521,000	\$	571,000
General Revenue	\$	30,000	\$	427,800	\$	457,800
	\$	1,675,000	\$	7,016,000	\$	8,691,000
	Drainage - Construction Transportation Sanitary Sewer - Design Sanitary Sewer - Construction Watermain - Design Watermain - Construction Roads DCC's Sewer Reserve Water Reserve	Drainage - Construction\$Transportation\$Sanitary Sewer - Design\$Sanitary Sewer - Construction\$Watermain - Design\$Watermain - Construction\$\$\$Roads DCC's\$Sewer Reserve\$Water Reserve\$	Drainage - Design\$30,000Drainage - Construction\$-Transportation\$1,550,000Sanitary Sewer - Design\$45,000Sanitary Sewer - Construction\$-Watermain - Design\$50,000Watermain - Construction\$-\$1,675,000Roads DCC's\$1,550,000Sewer Reserve\$45,000Water Reserve\$50,000General Revenue\$30,000	Drainage - Design \$ 30,000 \$ Drainage - Construction \$ - \$ Transportation \$ 1,550,000 \$ Sanitary Sewer - Design \$ 45,000 \$ Sanitary Sewer - Construction \$ - \$ Watermain - Design \$ 50,000 \$ Watermain - Construction \$ - \$ \$ 1,675,000 \$ Roads DCC's \$ 1,550,000 \$ Sewer Reserve \$ 45,000 \$ Water Reserve \$ 50,000 \$ Water Reserve \$ 30,000 \$ Water Reserve \$ 30,000 \$	Drainage - Design \$ 30,000 \$ - Drainage - Construction \$ - \$ 300,000 Transportation \$ 1,550,000 \$ 5,510,000 Sanitary Sewer - Design \$ 45,000 \$ - Sanitary Sewer - Construction \$ - \$ 685,000 Watermain - Design \$ 50,000 \$ - Watermain - Construction \$ - \$ 521,000 \$ 1,550,000 \$ \$ 7,016,000 Roads DCC's \$ 1,550,000 \$ \$ 5,382,200 Sewer Reserve \$ 45,000 \$ \$ 5,382,200 Water Reserve \$ 50,000 \$ \$ 521,000 Water Reserve \$ 30,000 \$ 427,800	2016 2018 Drainage - Design \$ $30,000$ \$ - \$ Drainage - Construction \$ - \$ $300,000$ \$ Transportation \$ $1,550,000$ \$ $5,510,000$ \$ Sanitary Sewer - Design \$ $45,000$ \$ - \$ Sanitary Sewer - Construction \$ - \$ $685,000$ \$ Watermain - Design \$ $50,000$ \$ - \$ Watermain - Construction \$ - \$ $521,000$ \$ Roads DCC's \$ $1,550,000$ \$ $5,382,200$ \$ Sewer Reserve \$ $45,000$ \$ $685,000$ \$ Water Reserve \$ $50,000$ \$ $5,382,200$ \$ Sewer Reserve \$ $45,000$ \$ $685,000$ \$ Water Reserve \$ $50,000$ \$ $521,000$ \$ General Revenue \$ $30,000$ \$ $427,800$ \$

Asset Category: New/Upgrade

Project Description:

The Boxwood Connector includes development of a new road from the intersection of Boxwood Road to Bowen Road at the south entrance to Beban Park. These improvements will reduce congestion and collisions at the intersection of Bowen and Northfield Roads; improve access to Beban Park and improve the pedestrian and cycling network.

The overall project includes the underground utilities such as water, drainage and sanitary sewer which will be required for the development of the adjacent land. A storm water detention pond will be constructed to the north of the Boxwood connector to control the flow of storm water into the Northfield trunk sewer.

Justification:

Drainage

The Northfield Creek Master Drainage Plan recommended that a natural pond with an outlet control structure be constructed to control storm water flows in the catchment. The construction of the pond will avoid significant upgrades to downstream pipes which are not large enough to convey current or future storm water flows. The report identified that the construction of the pond was more cost effective than upsizing the downstream piping.

Transportation

The Bowen Road and Northfield Road intersection has the worst safety performance of all City of Nanaimo intersections (excluding intersection shared with Ministry of Transportation and Infrastructure). Congestion occurs during peak afternoon periods and is anticipated to grow over time.

Concurrent Project:

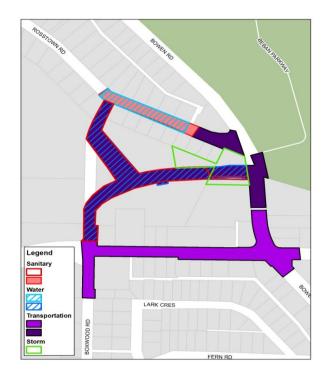
Boxwood Connector & Utility Project Continued

Sanitary Sewer

With the construction of the new road, sanitary sewer infrastructure will be required to service the development of adjacent land. Upgrades are required to existing sanitary sewer on Rosstown Road as they are on a six month flushing program due to settlement of the pipe.

Water

With the construction of the new road, water distribution infrastructure will be required to service the development of adjacent land. Upgrades are required to existing water infrastructure on Rosstown Road as they are causing operational and maintenance issues.



Budget Revision

Based on the most current information available on the project, the timing and budget will be revised for the final 2016-2020 Financial Plan. The revised project budget is as follows:

		2016	2019	2021	٦	Total Project Cost
Budget:	Drainage - Design	\$ 30,000	\$ -		\$	30,000
	Drainage - Construction	\$ -	\$ -	\$ 1,000,000	\$	1,000,000
	Transportation	\$ 100,000	\$ 3,000,000	\$ 5,650,000	\$	8,750,000
	Sanitary Sewer - Design	\$ 45,000	\$ -		\$	45,000
	Sanitary Sewer - Construction	\$ -	\$ -	\$ 685,000	\$	685,000
	Watermain - Design	\$ 50,000	\$ -		\$	50,000
	Watermain - Construction	\$ -	\$ -	\$ 521,000	\$	521,000
		\$ 225,000	\$ 3,000,000	\$ 7,856,000	\$	11,081,000

Project Map:

Budget Book Reference:	P-C1								
Concurrent Project:	Victoria Rd Sidewalk & Utility Project								
Components:	P_5209 Victoria Rd SW & Utility Project P_6179 Victoria Rd SW & Utility Project								
		201	4 Actuals	20	15 Budget	20	016 Budget	Tota	l Project Cost
Expenditures/Budget:	Drainage	\$	-	\$	-	\$	526,000	\$	526,000
	Transportation - Sidewalk	\$	-	\$	-	\$	274,000	\$	274,000
	Sanitary Sewer - Design	\$	11,189	\$	44,611		-	\$	55,800
	Sanitary Sewer - Construction	\$	-	\$	-	\$	687,000	\$	687,000
		\$	11,189		44,611	\$	1,487,000	\$	1,542,800
Funding:	Sewer Asset Management Reserve	\$	-	\$	-	\$	687,000	\$	687,000
	Sewer Reserve	\$	11,189	\$	44,611	\$	-	\$	55 <i>,</i> 800
	General Revenue	\$	-	\$	-	\$	800,000	\$	800,000
		\$	11,189	\$	44,611	\$	1,487,000	\$	1,542,800
Asset Category: Project Description:	New/Upgrade The project will include the following in								
	 475 meters of new concrete c Knowles Park complete with s Streets. Complete roadway resurfacing and a dedicated bicycle lane o Improved pedestrian crossing Replacement of 580 meters of Installation of 305 meters of n 	urb ar elect g betw n the s at bo f sanit	nd sidewal poulevard veen Raine west side, oth Rainer ary sewer	tree er and and and betv	plantings b d Needham a multi use Needham S veen Rainer	etwe inclushou tree and	een Rainer ar uding defined ulder on the e ts. Farquhar Str	id Nee I on st east si reets.	edham creet parking de.
Justification:	 Sidewalk The section of Victoria Road between Rainer and Needham Streets is the only stretch of Victoria Road without a formal sidewalk on at least one side. The sidewalk will accommodate pedestrians traveling to Bayview school. Drainage Drainage is required for the installation of the new sidewalk to prevent water from pooling on the road. It will also assist with local drainage issues and reduces storm water inflow and infiltration into the sanitary sewer system. Sanitary Sewer The existing vitrified clay sanitary sewers were installed in the 1930's and 1960's and are deteriorating causing operational and maintenance issues. 								
Communication Plan:	Letters of notice to affected property Site signage at project location Stakeholder consultation Website information								

Concurrent Project:

Victoria Rd Sidewalk & Utility Project Continued

Project Map:



Red shading indicates sanitary sewer Green shading indicates drainage Blue shading indicates water Purple shading indicates transportation

Budget Book Reference:	P-C2				
Concurrent Project:	Beban Plaza Utilities Project				
Components:	P_5183 Beban Plaza DR P_6208 Beban Plaza SS				
Budget:	Drainage - Design Drainage - Construction Sanitary Sewer - Design Sanitary Sewer - Construction	\$ \$ 2 \$	0,000 \$ - \$ 0,000 \$ <u>- \$</u>	2016 - 592,000 - 197,000	S 30,000 \$ 592,000 \$ 20,000 \$ 197,000
Funding:	General Asset Management Reserve Drainage Projects Reserve Sewer Reserve	\$ \$ 3: \$ 2:	0,000 \$ - \$ 0,000 \$ 0,000 \$ 0,000 \$	789,000 592,000 - 197,000 789,000	\$ 592,000 \$ 30,000 \$ 217,000
Asset Category:	Renewal				
Project Description:	Replacement of 370 meters of existing existing 250 mm diameter sanitary sev		lage and re	placement of 2	270 meters of
Justification:	Drainage Existing drainage pipe is located under a private structure creates a liability ri Sanitary Sewer The existing sanitary sewers have sett	sk for the City.			rainage pipe under
Communication Plan:	Letters of notice to affected property Site signage at project location Stakeholder consultation				
Project Map:	2220 2220 2220 2220 2220 2220 2220 2220 10 10 10 10 10 10 10 10 10 1	SARVIA RD 210 210 210 210 210 210 210 210 210 210			

Red shading indicates sanitary sewer Green shading indicates drainage

Budget Book Reference:	P-C2										
Concurrent Project:	Cliff St Area C	orridor & Utility Project									
Components:	I/O 50054 Downtown Street Lighting: Commercial & Skinner P_5174 Cliff St Area Corridor & Utility Project P_6182 Cliff St Area Corridor & Utility Project P_7325 Cliff St Area Watermain										
			201	4 Actuals	201	5 Budget	20	016 Budget	Tota	l Project Cost	
Expenditures/Budget:	Drainage - De	sign	\$	7,388	\$	21,355	\$	-	\$	28,743	
	Drainage - Co	nstruction	\$	-	\$	-	\$	338,000	\$	338,000	
	Transportatio	n - Pedestrian Improvements	\$	-	\$	-	\$	65,000	\$	65,000	
	Transportatio	n - Road Rehab	\$	-	\$	-	\$	112,860	\$	112,860	
	Transportatio	n - Street Lights	\$	-	\$	-	\$	295,000	\$	295,000	
	Sanitary Sewe	er - Design	\$	4,650	\$	20,350	\$	-	\$	25,000	
	Sanitary Sewe	er - Construction	\$	-	\$	-	\$	450,500	\$	450,500	
	, Watermain - I		\$	7,067	\$	17,933		-	\$	25,000	
	Watermain -		\$	-	\$	-	\$	522,000	\$	522,000	
			\$	19,105	\$	59,638	\$	1,783,360	\$	1,862,103	
Funding:	General Asset	Management Reserve	\$	-	\$	-	\$	300,000	\$	300,000	
-		Aanagement Reserve	\$	-	\$	-	\$	522,000	\$	522,000	
	Drainage Proj	-	\$	-	\$	18,295		-	\$	18,295	
	Sewer Reserv		\$	4,650	\$	20,350		450,500	\$	475,500	
	Water Reserv	e	\$, 7,067	\$, 17,933		, _	\$	25,000	
	General Reve	nue	\$, 7,388	\$	3,060		510,860	\$	521,308	
			\$	19,105	\$			1,783,360	\$	1,862,103	
Asset Category:	Renewal										
Project Description:	 The project will include the following elements: Replacement of drainage, sanitary sewer and watermain on Cliff Street from Terminal Avenue to Comox Avenue. Replacement of sanitary sewer in the right of way behind the Foundry Pub and Carpenter's union building. Replacement of drainage, sanitary sewer and watermain on Benson Street from Cliff Street to Skinner Street New watermain looping on Skinner Street. Sidewalk and street lighting on Benson Street. Replacement of street lights on Skinner Street between Bastion and Benson Streets. 										
Justification:	Drainage The existing drainage pipe is in poor condition and is undersized for the drainage area. Pedestrian Improvements The sidewalk will create a formal pedestrian connection between Skinner Street and Cliff Street. The sidewalk was included because the replacement of the utilities will require a full road reconstruction on Benson Street and the installation of the sidewalk will be cost effective when paired with the other work.										

Concurrent Project:	Cliff St Area Corridor & Utility Project Continued
	Road Rehab Cliff Street and Benson Street will require full road rehabilitation due to the extent of the utility replacement. Street Lights Street lights on Benson Street are being installed to upgrade lighting to current standards required for roadway lighting and make the new sidewalk safer for pedestrians. The installation of the street lights will be cost effective when paired with the other work.
	 Heritage style street lights that will replace older streetlights in the downtown area. The RCMP has expressed concerns about the level of lighting of the existing street lights. The new lights are expected to create a safer environment for pedestrians and improve aesthetics in the downtown area. Sanitary Sewer Condition assessments of the existing sanitary sewer show several structural and operational issues and needs to be replaced. Watermain
	Existing cast iron watermains on Benson Street and Cliff Street were poorly constructed and are in need of replacement. Watermain looping on Skinner Street is required to remove dead ends and increase fire flows in the area.
Communication Plan:	Letters of notice to affected property Site signage at project location Stakeholder consultation
Project Map:	ELL ST COMOX RD FRUMA ANT FRUMA ST COMOX RD FRUMA ST FRUMA S

Storm

Water

Trans

rtation

COMMERCIAL ST

NTWORTH ST

ZWILLIAM ST

FRASER ST

BASTION ST

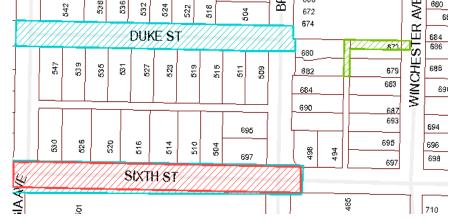
Budget Book Reference:	P-C2											
Concurrent Project:	College Dr Are	College Dr Area Watermain Twinning										
Components:	I/O 80022Douglas Place SS: Camosun to EndP_7342DCC W47 College Drive Twinning WMP_7343College Dr Area WM TwinningP_9266College Dr Area Supply WM Twinning											
	2016 2017 2018 Total Project Cost											
Budget:	Sanitary Sewe	er	\$	-	\$	-	\$	21,250	\$	21,250		
C C	•	Distribution) - Design	\$	40,000	\$	-	\$	-	\$	40,000		
	Watermain (D	Distribution) - Construction	\$	-	\$	-	\$	473,000	\$	473,000		
	Watermain (S	upply) - Design	\$	-	\$	65,000	\$	-	\$	65,000		
		upply) - Construction	\$	-	\$	-	\$	650,000	\$	650,000		
			\$	40,000	\$	65,000	\$	1,144,250	\$	1,249,250		
Funding:	Water DCC's		\$	_	\$	_	\$	111,300	¢	111,300		
r unung.	Sewer Reserv	9	\$	_	\$	_	\$	21,250		21,250		
	Water Reserv	-	\$	40,000	\$	-	\$	361,700		401,700		
	Water Supply Reserve				\$	65,000	\$	650,000	\$	715,000		
	Water Suppry		\$ \$	40,000	Ś	65,000	Ś	1,144,250	\$	1,249,250		
Asset Category: Project Description:	for redundand	ng brittle water supply main o cy and replacement of sanitary erating pressures and fire flows	/ sew	-								
Justification: Project Map:	 Sanitary Sewer To remove extra long services from Camosun to properties in cul-de-sac which are sub-standard and replace with a sanitary sewer main. Watermain - Distribution The completed Tralee Road twin main will provide redundancy for College and Westwood Lake area. The Mount Royal and Douglas Place replacement is part of the 100 mm diameter asbestos cement replacement program due to thin walls which are prone to breaks. Watermain- Supply The 1979 250 mm diameter watermain on College Drive is a critical watermain supplying Towers reservoir and Westwood neighbourhood and is nearing end of life and must be renewed. 											
	VFR00-81 VFR0550/F3855	Anore Indiana State	1.	R	OXBO	RO	an and	4410 A1100				

Red shading indicates sanitary sewer Blue shading indicates water

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SELKIRKO

Budget Book Reference:	P-C2							
Concurrent Project:	Duke & Sixth	Utility Upgrade						
Components:	P_5226 P_6176 P_7335	673 Winchester DR Sixth St SS: Bruce to Georgia Duke & Sixth Utility Upgrade					т	otal Project
				2016		2018	10	Cost
Budget:	Drainage		\$	-	\$	49,000	\$	49,000
	Sanitary Sewe	er - Design	\$	40,000	\$	-	\$	40,000
		er - Construction	\$, -	\$	377,000	\$	377,000
	, Watermain - I		\$	36,000	\$	-	\$	36,000
	Watermain -	Construction	\$	-	\$	347,000	\$	347,000
			\$ \$	76,000	\$	773,000	\$	849,000
Funding:	Sewer Reserv	e	\$	40,000	\$	377,000	\$	417,000
	Water Reserv	re	\$	36,000	\$	347,000	\$	383,000
	General Reve	nue	\$	-	\$	49,000	\$	49,000
			\$	76,000	\$	773,000	\$	849,000
Asset Category:	Renewal							
Project Description:		ement of drainage and watermain 00 mm diameter to 300 mm diar				-	ing of	sanitary
Justification:	Sanitary Sew Sixth Street h address capac Water Duke Street r pressure asbe Sixth Street re	as high inflow and infiltration not	ted in sew	ver monitoring ent strategy to	g stat o repl	ion and main v ace old (> 40 ye	vill be ears)	e upsized to and high
Project Map:	662	538 536 524 527 527 527 528 524 528 528 524 528	BR	564 568 572 574		678 850 61 634		



Red shading indicates sanitary sewer Green shading indicates drainage Blue shading indicates water

Budget Book Reference:	P-C2						
Concurrent Project:	Garner Cres Area Utility Upgrade						
Components:	P_6209Garner Cres Area Utility UpgradeP_7334Garner Cres Area Utility Upgrade						
Budget:	Sanitary Sewer - Design Sanitary Sewer - Construction Watermain	\$ \$ \$	2015 25,000 - - 2 5,000	\$ \$ \$	2016 798,200 422,000 1,220,200	Tota \$ \$ \$ \$	Il Project Cost 25,000 798,200 422,000 1,245,200
Funding:	Water Asset Management Reserve Sewer Reserve	\$ \$ \$	25,000 25,000	\$ \$ \$	422,000 798,200 1,220,200		422,000 823,200 1,245,200
Asset Category:	Renewal	.	23,000	Ŷ	1,220,200	Ŷ	1,243,200
Project Description:	The project will include the following renewal: • Replacement of a total of 770 m Garner Crescent and Emery Way • Replacement of 500 meters of 1 Crescent.	, and in	the lane betv	veen	Garner Cresce	nt an	d Emery Way.
Justification:	Sanitary Sewer Existing sanitary sewer pipes have structural de issues are causing operational and maintenance Water The aging cast iron pipe has deteriorated causir	e issues.					
Communication Plan:	Letters of notice to affected property Site signage at project location Stakeholder consultation						
Project Map:	The second secon						

Red shading indicates sanitary sewer Blue shading indicates water

Budget Book Reference:	P-C2									
Concurrent Project:	Glenayr/Wingrove Area U	tility Proj	ect							
Components:	P_5217Glenayr Drive DR: Loat to BayP_7328Glenayr/Wingrove Area Utility Project									
			2015		2016		2017	Total	Ducient Cost	
Budgots	Drainago	ć	2015	\$	2016	\$	2017 140,000		Project Cost 140,000	
Budget:	Drainage Watermain - Design	\$ \$	- 25,000	ې \$	- 12,000	ې \$	140,000	\$ \$	37,000	
	Watermain - Construction		- 23,000	\$	- 12,000	\$	395,000	\$ \$	395,000	
		\$ \$	25,000		12,000	\$	535,000	\$	572,000	
		<u> </u>	20,000	Ÿ	12,000	Ÿ	555,665	Ŷ	572,000	
Funding:	Water Reserve	\$	25,000	\$	12,000	\$	395,000	\$	432,000	
	General Revenue		-	\$	-	\$	140,000	\$	140,000	
		\$ \$	25,000		12,000		535,000		572,000	
Asset Category: Project Description:	Renewal Construction of 350 mete 1960's era asbestos ceme		-	-	•			50 met	ers of	
Justification:	 1960's era asbestos cement watermain on Glenayr Drive and Wingrove Street. Drainage The existing open ditch along Glenayr Drive is deep with steep sidewalls. The sides of the ditch are being eroded causing operational and maintenance issues. The depth of the ditch and the steepness of the side walls present a safety hazard to pedestrians. Water This high pressure watermain was installed in 1964 and is constructed of asbestos cement. Although this particular pipe doesn't have a history of breaks, there are pipes close by of similar vintage and material that have had issues.									
Project Map:					u / u	/				



Green shading indicates drainage Blue shading indicates water

Budget Book Reference:	P-C2								
Concurrent Project:	Lambert Ave	Lambert Ave Utility Upgrade							
Components:	P_5204 P_6183	Lambert Ave DR: 5th to 6th Lambert Ave SS: Fifth to Sixth							
							То	otal Project	
				2016		2018		Cost	
Budget:	Drainage - De	sign	\$	30,000	\$	-	\$	30,000	
	Drainage - Construction		\$	-	\$	366,000	\$	366,000	
	Sanitary Sewe	er - Design	\$	60,000	\$	-	\$	60,000	
	Sanitary Sewe	er - Construction	\$	-	\$	506,000	\$	506,000	
			\$ \$	90,000	\$	872,000	\$	962,000	
Funding:	Sewer Reserv	e	\$	60,000	\$	506,000	\$	566,000	
	General Revenue		\$ \$	30,000	\$	366,000	\$	396,000	
			\$	90,000	\$	872,000	\$	962,000	
Asset Category: Project Description:	Renewal Sanitary sewe infrastructure	r infrastructure renewal and repla	acement	of existing di	ches	with piped dra	ainage		
Justification:	Lambert Stree drainage pipe Sanitary Sew e Replacement high inflow ar	St Sub-Catchment Area Sanitary S et, disconnecting storm services fr . This will reduce rain related infle er is required to address operating a id infiltration. As indentified in th e upsized to address capacity sho	om the s ow and in Ind maint e 2014 Cl	anitary sewe ofiltration into tenance issue	r maii o sani os incl	ns and adding tary sewer ma uding, root ing	them ins. gress a	onto new at joints and	





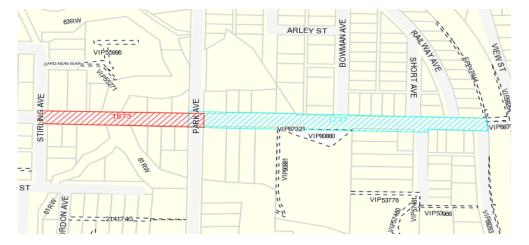
Budget Book Reference:	P-C2
Concurrent Project:	Nanaimo Lakes Drainage & Road Rehabilitation Project
Components:	P_5197 Nanaimo Lakes DR & RHB Project
Budget:	Z016 Drainage \$ 150,000 Transportation - Road Rehab \$ 820,000 \$ 970,000
Funding:	General Asset Management Reserve\$ 970,000\$ 970,000
Asset Category:	Renewal
Project Description:	Replacement of a corrugated steel pipe (CSP) culvert on Nanaimo Lakes Road and road rehabilitation of Nanaimo Lakes Road from Wakesiah to Lincoln.
Justification:	Drainage Existing CSP culvert is corroded and requires replacement. Road Rehab To maintain pavement quality on major roads and to minimize lifecycle costs.
Communication Plan:	Letters of notice to affected property Site signage at project location News releases
Project Map:	
	HILDERST HOUNDERST HOUNDER

Budget Book Reference:	P-C2
Concurrent Project:	Robins St. Utility Upgrade
Components:	P_6184Robins St SS: Pipe 509596 @ NicolP_7357Robins St WM: Strickland to Haliburton
Budget:	Sanitary Sewer \$ 15,000 Watermain \$ 100,000 \$ 115,000
Funding:	Sewer Reserve \$ 15,000 Water Reserve \$ 100,000 \$ 115,000
Asset Category:	Renewal
Project Description:	Replacement of 20 meters of vitrified clay sanitary sewer pipe and 200 meters of 1950's era cast iron watermain.
Justification: Communication Plan:	Sanitary Sewer Replacement required due to deteriorating condition. Water Replacement required due to operational and maintenance issues and to improve fire flows in surrounding area. Letters of notice to affected property
	Site signage at project location
Project Map:	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Red shading indicates sanit	

Red shading indicates sanitary sewer Blue shading indicates water

Budget Book Reference:	P-C2							
Concurrent Project:	Seventh St. Utility Upgrade							
Components:	P_6211 P_7298	Seventh St SS: Siphon to Park Ave Seventh St WM: Park to Douglas	5					
							Тс	tal Project
				2016		2017		Cost
Budget:	Sanitary Sewe		\$	-	\$	182,000	\$	182,000
	Watermain - I		\$	30,000	\$	-	\$	30,000
	Watermain - (Construction	\$ \$ \$	-	\$	273,000	\$	273,000
			\$	30,000	\$	455,000	\$	485,000
	_							
Funding:	Sewer Reserv		\$	-	\$	182,000	\$	182,000
	Water Reserv	re	\$ \$	30,000	\$	273,000	\$	303,000
			Ş	30,000	\$	455,000	\$	485,000
Asset Category:	Renewal							
Project Description:	•	of existing 400 mm diameter steel e due to capacity issues and 300 mm						
Justification:	Water Geotechnical	iver Sewer Master Plan identified t concerns within the existing water ipe. This watermain is a high prior	main a	lignment incre	ease t	he risk of a bre	ak an	d issues with
Communication Plan:		ice to affected property t project location						

Project Map:



Red shading indicates sanitary sewer Blue shading indicates water

Budget Book Reference:	P-C2							
Concurrent Project:	Sherwood Dr	. Utility Upgrade						
Components:	I/O 50128 P_7380	Sherwood Dr DR: 1571 She Sherwood Dr. Utility Upgra		tring				
							Tot	al Project
			2	2015		2016		Cost
Budget:	Drainage		\$	-	\$	28,000	\$	28,000
	Watermain -	Design	\$	5,000	\$	-	\$	5,000
	Watermain -	Construction	\$ \$	-	\$	518,000	\$	518,000
			\$	5,000	\$	546,000	\$	551,000
Funding:	Water Reserv	ve	\$	5,000	\$	518,000	\$	523,000
Ū	General Reve	enue		-	\$	28,000	\$	28,000
			\$ \$	5,000	\$	546,000		551,000
Asset Category:	Renewal							
Project Description:		 vill include the following rene Replacement of the 600 mi Sherwood Drive. 	m diameter corr	-				-
		 Replacement of 650 meter 	s of 1970's era a	asbestos ce	ment	watermain on	Sherw	ood Drive.
Justification:	Water A watermain The existing a	culvert is corroded and requir break in the summer of 2015 asbestos cement watermains sure and recent watermain b : break.	caused substar in this project a	ntial damag rea are clas	sified	as a higher ris	k for fa	ailure due to
Communication Plan:		tice to affected property at project location						
Project Map:	BOWST	RING CL	W000 08	TRIN MOLINAW	2 3 780 AV		NG RICHWET	E AT CA

Green shading indicates drainage Blue shading indicates water

Budget Book Reference:	P-C2	
Concurrent Project:	Terminal Sout	h Complete Street & Utility Project
Components:	P_5222 I/O 50126 P_6217 P_7309	Terminal South Complete Street & Utility Project Terminal @ St George/Princess Royal - VEH Terminal South Complete Street & Utility Project Terminal South Complete Street & Utility Project

								Т	otal Project
			2016		2017		2018		Cost
Budget:	Drainage - Design	\$	55,000	\$	-	\$	-	\$	55,000
	Drainage - Construction	\$	-	\$	420,000	\$	-	\$	420,000
	Transportation - Road Rehab	\$	-	\$	996,000	\$	1,032,200	\$	2,028,200
	Transportation - Traffic Signal Controller	\$	86,400	\$	-	\$	-	\$	86,400
	Sanitary Sewer - Design	\$	120,000	\$	-	\$	-	\$	120,000
	Sanitary Sewer - Construction	\$	-	\$	1,317,400	\$	-	\$	1,317,400
	Watermain - Design/Construction	\$	18,000	\$	462,000	\$	-	\$	480,000
		\$	279,400	\$	3,195,400	\$	1,032,200	\$	4,507,000
Funding:	General Asset Management Reserve	\$	55,000	\$	1,416,000	\$	432,200	\$	1,903,200
	Sewer Asset Management Reserve	\$	120,000	\$	1,317,400	\$	-	\$	1,437,400
	Water Reserve	\$	18,000	\$	462,000	\$	-	\$	480,000
	General Revenue	\$	86,400	\$	-	\$	600,000	\$	686,400
		\$	279,400	\$	3,195,400	\$	1,032,200	\$	4,507,000
Asset Category:	Renewal	from	Stowart Av	o + o	St Coorgo		and of traf	ficci	anal
Project Description:	Road surface rehabilitation of Terminal Ave								-
	controller at Terminal Ave and St. George, u countdown pedestrian signal display and rea		•		-		-		
Justification:	Drainage								
	Replacement of some pipes is required due	to po	or conditio	n.					
	Transportation - Road Rehab	-							
	To adjust surface failures by renewing the p	avem	ent, which	will	prolong the	life	of the road		
	Transportation - Traffic Signal Controller								
	Replace electrical traffic signal components	that a	are at the e	nd d	of their servi	ce l	ife.		
	Sanitary Sewer								
	Several sections of sanitary sewer will be rep	blace	d. Closed C	ircu	uit TV (CCTV)	vid	eo confirms	that	t the pipes
	are in deteriorating condition and should be								
						uci	neath the rt	Jau s	furface to be

rehabilitated and are in poor condition and are not anticipated to last for the life of the new road surface and may trigger premature cutting and patching of the road asphalt in the future if not renewed now. A final section will be impacted during the replacement of a section of the drainage infrastructure due to its close proximity.

Water

Replacement of late 50's and early 60's cast iron watermain of various diameters which has deteriorated causing low flows and operational and maintenance issues.

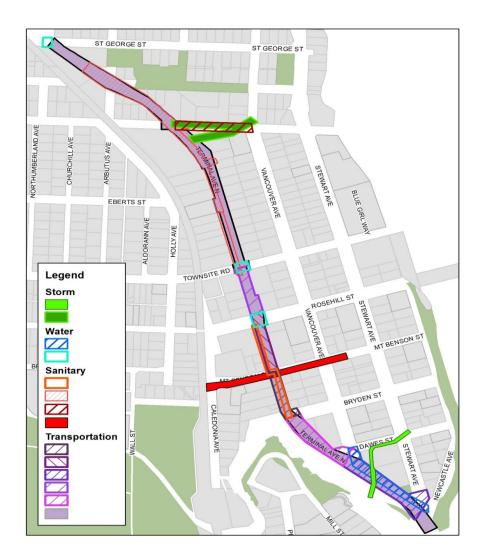
 Concurrent Project:
 Terminal South Complete Street & Utility Project Continued

 Communication Plan:
 Letters of notice to affected property

 Site signage at project location
 Stakeholder consultation

 Website information
 News releases

Project Map:



Budget Book Reference:	P-C2								
Concurrent Project:	Tom's Turnabout Area Utility Upgrade								
Components:	I/O 70002 P_5219 P_7279 P_7353	Tom's Turnabout PRV Review Laguna Way DR (Tom's Turna Tom's Turnabout PRV Tom's Turnabout Area Utility	bout to Lagu Upgrade			2016	Tot	tal Project	
	D .			2015	~	2016	~	Cost	
Budget:	Drainage		\$	-	\$	90,000	\$	90,000	
	Watermain -	-	\$	15,000	\$	-	\$	15,000	
		Construction	\$	-	\$	300,000	\$	300,000	
	Watermain -		\$	50,000	\$ ¢	-	\$ ¢	50,000	
	Watermain -	PRV	\$ \$	65,000	\$ \$	150,000 540,000	\$ \$	150,000	
			Ş	05,000	Ş	540,000	Ş	605,000	
Funding:	Water Reserv	ve	\$	65,000	\$	450,000	\$	515,000	
	General Reve		\$	-	\$	90,000	\$	90,000	
			\$	65,000	\$	540,000		605,000	
Project Description:	The project v	 vill include the following renewa Replacement of 70 meters of Laguna Way. Replacement of 300 meters of and the easement between T Renewal of existing PRV stational statement of the statement	drainage pip of 1970's era īom's Turnab	asbestos cer out and Lag	ment una W	watermain on /ay.	Tom's		
Justification:	 Drainage The condition of the existing drainage infrastructure is deteriorating and requires replacement. Replacing the existing watermain in the easement would require replacement of the drainage pipe due to the proximity of the drainage pipe to the watermain. Water Two watermain breaks have occurred on Tom's Turnabout. The existing asbestos cement watermains in this project area are classified as a higher risk for failure due to the age, pressure and recent watermain breaks. PRV Replacement required due to deteriorating condition and operating and maintenance issues. 								
Communication Plan:		tice to affected property at project location consultation							



Concurrent Project: Tom's Turnabout Area Utility Upgrade Continued

Green shading indicates drainage Blue shading indicates water x indicates location of PRV

P-C2							
Townsite/Ho	lly Corridor & Utility Project						
P_5208 P_7354						То	tal Project
			2015		2016		Cost
Drainage		\$	-	\$	15,000	\$	15,000
Transportati	on - Cycling		-	\$	40,000	\$	40,000
Transportati	on - Pedestrian Improvements		-		75,000	\$	75,000
-			6.000		, _		6,000
	-	Ś	-		217.000	-	217,000
Waterman	construction	\$	6,000	\$		\$	353,000
		-	•				· · ·
Water Reser	ve	\$	6,000	\$	217,000	\$	223,000
General Rev	enue	\$	-	\$	130,000	\$	130,000
		\$	6,000	\$	347,000	\$	353,000
Renewal The project v	will include the following elements	:					
 island with pedestrian refuge island and curb extensions at the southwest corner. Pedestrian upgrades at the intersection of Townsite Road and Vancouver Avenue includin curb extensions for the southwest and northwest corner of Townsite Road and Vancouve Avenue and a raised bus stop at the southeast corner of Vancouver Avenue and Townsite Road. Bike lanes on Townsite Road from Arbutus Avenue to Stewart Avenue and bike lanes or shared vehicle and bike lanes on Holly Avenue from Rosehill Street to Townsite Road. Replacement of 200 meters of 1930's era cast iron watermain on Holly Avenue between Townsite Road and Bradley Street 							ue including Vancouver I Townsite Ianes or Road.
Transportation Pedestrian un crossing Town Nanaimo. Pedestrian un crossing Town identified in issues to acconn The Townsite Water	on pgrades at Townsite Road and Hol msite Road by narrowing the cross pgrades at Townsite Road and Var msite Road and Vancouver Avenue the Newcastle-Brechin Neighborn ess the bus easier. e Road Bike Route is identified in t	ly Avenue ing distan iccouver Av by narro bod plan. ne Transpo	create a saf ce. This rou venue create wing the cro The raised b ortation Mas	er env te link e a saf ssing ous sto ster Pl	vironment for ss the E&N trai er environmer distance. Thes op allows peop lan as a priority	l with nt for _l se upg le wit y cycli	Downtown pedestrians grades were h mobility ng route.
	Townsite/Ho P_5208 P_7354 Drainage Transportati Transportati Watermain - Water Reser General Revo Renewal The project w Renewal The project w Replacemen Transportati Pedestrian u crossing Tow Nanaimo. Pedestrian u crossing Tow Nanaimo.	Townsite/Holly Corridor & Utility ProjectP_5208Townsite/Holly Corridor & UtilityP_7354Holly Ave WM: Townsite to BradDrainageTransportation - CyclingTransportation - Pedestrian ImprovementsWatermain - DesignWatermain - ConstructionWater ReserveGeneral RevenueRenewalThe project will include the following elements• Replacement of existing drainage• Pedestrian upgrades at the Townisland with pedestrian refuge isl• Pedestrian upgrades at the intercurb extensions for the southwe Avenue and a raised bus stop at Road.• Bike lanes on Townsite Road from shared vehicle and bike lanes or • Replacement of 200 meters of a Townsite Road and Bradley StreetDrainageReplacement required due to deteriorating cord TransportationPedestrian upgrades at Townsite Road and Holl crossing Townsite Road and Vancouver Avenue identified in the Newcastle-Brechin Neighborhol issues to access the bus easier.The Townsite Road Bike Route is identified in the Water	Townsite/Holly Corridor & Utility Project P_5208 Townsite/Holly Corridor & Utility Project P_7354 Holly Ave WM: Townsite to Bradley Drainage \$ Transportation - Cycling \$ Transportation - Pedestrian Improvements \$ Watermain - Design \$ Watermain - Construction \$ Water Reserve \$ General Revenue \$ Pedestrian upgrades at the Townsite Road island with pedestrian refuge island and to curb extensions for the southwest and no Avenue and a raised bus stop at the south Road. Pedestrian upgrades at the intersection of curb extensions for the southwest and no Avenue and a raised bus stop at the south Road. Bike Inses on Townsite Road from Arbutus shared vehicle and bike lanes on Holly Avenue at crossing Townsite Road and Bradley Street. Drainage Replacement of 200 meters of 1930's era Townsite Road and Holly Avenue crossing Townsite Road and Vancouver Avenue by narrow identified in the Newcastle-Brechin Neighborhood plan. Nanaimo. Pedestrian upgrades at Townsite Road and Holly Avenue by crossing Townsite Road and Vancouver Avenue by narrow identified in the Newcastle-Brechin Neighborhood plan. Stare to access the bus easier. The Townsite Road Bike Route is identified in the Transport Water	Townsite/Holly Corridor & Utility Project P_5208 Townsite/Holly Corridor & Utility Project P_7354 Holly Ave WM: Townsite to Bradley Drainage \$ - Transportation - Cycling \$ - Transportation - Pedestrian Improvements \$ - Watermain - Design \$ - Watermain - Construction \$ - Water Reserve \$ - S - Renewal \$ - The project will include the following elements: • Pedestrian upgrades at the Townsite Road crosswalk island with pedestrian refuge island and curb extension of Avenue and a raised bus stop at the southeast correr Road. • Pedestrian upgrades at the intersection of Townsite Road. • Bike lanes on Townsite Road from Arbutus Avenue to shared vehicle and bike lanes on Holly Avenue from Road. • Bike lanes on Townsite Road from Arbutus Avenue to shared vehicle and bike lanes on Holly Avenue from Road. • Bike lanes on Townsite Road from Arbutus Avenue to shared vehicle and bike lanes on Holly Avenue from Road. • Bike lanes on Townsite Road from Arbutus Avenue to shared vehicle and bike lanes on Holly Avenue create as forownsite Road and Bradley Street. Drainage Pedestrian upgrades at Townsite Road and Holly Avenue create as af crossing Townsite Road and Vancouver Avenue by narrowing the crossing Townsite Road and Vancouver Avenue by narrowing the	P_SOR Townsite/Holly Corridor & Utility Project P_353 Townsite/Holly Corridor & Utility Project P_353 Holly Ave WM: Townsite to Bradley Drainage \$ \$ Transportation - Cycling \$ \$ Transportation - Design \$ \$ Watermain - Design \$ \$ Water Reserve \$ \$ General Revenue \$ \$ Water Reserve \$ \$ General Revenue \$ \$ Pedestrian upgrades at the Townsite Road crosshill Street at 9 Pedestrian upgrades at the intersection of Townsite Road and curb extensions at curb extensions for the southwest and northwest corner of Vancue Avenue and a raised bus stop at the southeast corner of Vancue Avenue and a raised bus stop at the southeast corner of Vancue Avenue and Bradley Street. Drainage Replacement required due to deteriorating condition of the existing drainage and and Bradley Street. Drainage Replacement required due to deteriorating condition of the existing drainage arcossing Townsite Road and Vancouver Avenue create a safer env crossing Townsite Road and Vancouver Avenue by narrowing the crossing identified in the Newcastle-Brechin Neighborhood plan. The raised bus stop arcossing Townsite Road and Vancouver Avenue by narrowing the crossing identified in the Newcastle	P_SOR Townsite/Holly Corridor & Utility Project P_353 Townsite/Holly Corridor & Utility Project P_354 Holly Ave WM: Townsite to Bradley Drainage \$ 0.00 Transportation - Cycling \$ 0.00 Transportation - Design \$ 0.000 Watermain - Design \$ 0.000 Water Reserve \$ 0.000 \$ 217,000 Social Soc	Townsite/Holly Corridor & Utility Project P_323 Townsite/Holly Corridor & Utility Project P_334 Townsite / Holly Ave WM: Townsite to Bradley Tomanage \$ 15,000 \$ Transportation - Cycling \$ 6,000 \$ - \$ Watermain - Design \$ 6,000 \$ - \$ \$ 6,000 \$ - \$ Water Reserve \$ 6,000 \$ \$ 217,000 \$ \$ \$ 6,000 \$ \$

 Concurrent Project:
 Townsite/Holly Corridor & Utility Project Continued

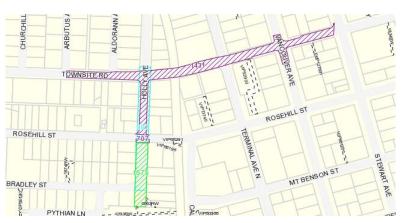
 Communication Plan:
 Letters of notice to affected property

 Site signage at project location
 Stakeholder consultation

 News releases
 News releases

Website information

Project Map:



Green shading indicates drainage Purple shading indicates sewer Blue shading indicates water

Budget Book Reference:	P-E1 (Fleet - City)					
Project:	P_7382 Water: New Fleet Units					
2016 Budget:	\$ 22,000					
2016 Funding:	Water Reserve					
Asset Category:	New/Upgrade					
Project Description:	Purchase of a used vehicle for the water cross connection control program to be implemented in 2016. Project will increase the size of the City fleet.					

Budget Book Reference:	P-E1 (Maintenance Equipment)
Project:	P_5232 Drainage Equipment
2016 Budget:	\$ 25,000
2016 Funding:	General Revenue
Asset Category:	New/Upgrade
Project Description:	Purchase of portable FloDar equipment to measure storm drainage flows in various strategic locations in the drainage collection system.
Justification:	Flow data from the monitoring station will be used to calibrate drainage system models to evaluate pipe capacities and determine if and when pipe upgrades are required.

Budget Book Reference:	P-E1 (Maintenance Equipment)
Project:	I/O 70001 Water Ops Maintenance Equipment
2016 Budget:	\$ 14,400
2016 Funding:	Water Reserve
Asset Category:	New/Upgrade
Project Description:	In conjunction with the cross connection control program the City will purchase/build 12 hydrant backflow preventers for private construction. Contractors would be charged for use of the preventers in addition to a daily flat rate for the water consumed.

Budget Book Reference:	P-E2 (Fleet - City)
Project:	P_5060 Fleet Replacements
2016 Budget:	\$ 523,000
2016 Funding:	Equipment Depreciation Reserve
Asset Category:	Renewal
Project Description:	Replacement of vehicles, pickups, heavy equipment and garbage trucks that have reached end of useful life. Planned purchases for 2016 include:
	 Light duty unit for Roads department to replace unit #103 Dodge Caravan (in-service 2003) Light duty unit for Bylaw department to replace unit #271 Dodge Ram 1/2 ton 4x4 (in-service 2003)
	 Medium duty unit for Water department to replace unit #234 Dodge 3/4 ton (in-service 2001) Medium duty unit for Parks department to replace unit #257 Ford F350 (in-service 2004) Heavy duty unit for Drainage department to replace unit #406 full size single axle dump truck (in-service 2001)
	 Heavy duty unit for Roads department to replace unit #425 small 4x4 dump truck (in-service 2001)

Budget Book Reference:	P-E2 (Furniture & Equipment Replacement)
Project:	I/O 50000 Engineering Services: Furniture & Equipment Replacement
2016 Budget:	\$ 25,000
2016 Funding:	General Revenue
Asset Category:	Renewal
Project Description:	Routine replacement of furniture and equipment including computers for staff in the Engineering Services department, as needed.

Budget Book Reference:	P-E2 (Furniture & Equipment Replacement)
Project:	I/O 50059 Public Works Yard: Furniture & Equipment Replacement
2016 Budget:	\$ 15,000
2016 Funding:	General Revenue
Asset Category:	Renewal
Project Description:	Replacement of furniture and equipment for Engineering & Public Works staff located at the Public Works yard.

Budget Book Reference:	P-E2 (Maintenance Equipment)
Project:	I/O 50121 Construction: Equipment Replacement
2016 Budget:	\$ 19,100
2016 Funding:	General Revenue
Asset Category:	Renewal
Project Description:	Replacement of small tools and equipment used by the Construction department in daily operations. Planned purchases for 2016 include:
	 Vibrating plate Replacement of the speed reader touch screen on message board Pipe laser

Pipe laser

Budget Book Reference:	P-E2 (Maintenance Equipment)
Projects:	P_5014 Transportation Maintenance Equipment I/O 50067 Transportation Maintenance Equipment
2016 Budget:	\$ 29,500
2016 Funding:	General Revenue
Asset Category:	Renewal
Project Description:	Replacement of small tools and equipment used by the Transportation department (includes roads and signs and lines) in daily operations. Planned purchases for 2016 include:
	Hand held blower
	Pole pruner
	• Line laser
	 Thermoplastic applicator

• Unallocated funds (\$5,000) for unanticipated small tools replacement

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Budget Book Reference:	P-E2 (Maintenance Equipment)
Project:	I/O 50058 Drainage Maintenance Equipment
2016 Budget:	\$ 15,000
2016 Funding:	General Revenue
Asset Category:	Renewal
Project Description:	Replacement of small tools and equipment used by the Drainage department in daily operations. Planned purchases for 2016 include:
	Concrete sawMisc small hand held tools

• Unallocated funds (\$10,000) for unanticipated small tools replacement

Budget Book Reference:	P-E2 (Maintenance Equipment)
Project:	P_5216 Fleet: Small Equipment I/O 50061 Fleet: Small Tools Replacement
2016 Budget:	\$ 25,000
2016 Funding:	Equipment Depreciation Reserve
Asset Category:	Renewal
Project Description:	Replacement of small tools and equipment used by various City departments for which the Fleet department charges for their use (hourly rate). Planned purchases for 2016 include:
	Hydraulic power packStanley hoe pack

• Unallocated funds (\$7,500) for unanticipated small tools replacement

Budget Book Reference:	P-E2 (Maintenance Equipment)
Project:	I/O 80000 Sanitary Sewer Ops Maintenance Equipment
2016 Budget:	\$ 20,000
2016 Funding:	Sewer Reserve
Asset Category:	Renewal
Project Description:	Replacement of small tools and equipment used by the Sewer department in daily operations. Planned purchases for 2016 include:
	 AC/hydraulic saw with hepa filter and hood to meet new WorkSafe standards for AC pipe cutting.

• Unallocated funds (\$10,000) for unanticipated small tools replacement

Budget Book Reference:	P-E2 (Maintenance Equipment)
Project:	I/O 70001 Water Ops Maintenance Equipment
2016 Budget:	\$ 25,000
2016 Funding:	Water Reserve
Asset Category:	Renewal
Project Description:	Replacement of small tools and equipment used by the Water department in daily operations. Planned purchases for 2016 include:
	 AC/hydraulic saw with hepa filter and hood to meet new Work safe standards for AC pipe cutting. Tripod and harness to meet Work safe standards for confined space

• Unallocated funds (\$10,000) for unanticipated small tools replacement

Budget Book Reference:	P-E2 (Misc - Fleet Shop Equipment)
Project:	I/O 50062 Fleet: Shop Equipment Replacement
2016 Budget:	\$ 5,000
2016 Funding:	Equipment Depreciation Reserve
Asset Category:	Renewal
Project Description:	Replacement of major shop equipment in the Fleet facility. Planned purchases for 2016 include: • Gas powered welder

Budget Book Reference:	P-E2 (Misc - Survey Equipment)			
Project:	I/O 50036 Integrated Survey Control Monuments			
2016 Budget:	\$ 10,000			
2016 Funding:	General Revenue			
Asset Category:	Renewal			
Project Description:	This program adds, renews and maintains the survey control monuments.			
Justification:	Survey monuments are needed to establish survey control both for City projects and all surveying (legal and topographic) within the City limits. Legal plans are required to tie to at least two survey monuments.			

Budget Book Reference:	P-E2 (SNIC Equipment)					
Projects:	I/O 50100 Snow/Ice Control Equipment P_5210 Snow/Ice Control Equipment					
2016 Budget:	\$ 78,000					
2016 Funding:	General Revenue					
Asset Category:	Renewal					
Project Description:	Replacement of snow and ice equipment such as sanders, plows and anti-icing tanks. Planned purchases for 2016 include:					
	 Under body plow (replacement of unit #6208 in-service 1999 and used with unit #406 which is scheduled for replacement in 2016) Front plow (replacement of unit #6248 in-service 2000 and used with unit #425 which is scheduled for replacement in 2016) Front plow (replacement of unit #6234 in-service 2003 and used with unit #406 which is scheduled for replacement in 2016) Sander (replacement of unit #6211 in-service 1996 and used with unit #406 which is scheduled for replacement in 2016) Sander (replacement of unit #6245 in-service 2000 and used with unit #406 which is scheduled for replacement in 2016) Sander (replacement of unit #6245 in-service 2000 and used with unit #425 which is scheduled for replacement in 2016) 					

Budget Book Reference:	P-F2 (Public Works Yard)			
Project:	I/O 50060 Public Works Yard: Upgrades			
2016 Budget:	\$ 65,000			
2016 Funding:	General Revenue			
Asset Category:	Renewal			
Project Description:	Various projects beyond routine maintenance and repairs at the Public Works yard. Identified work for 2016 includes yard paving, fire alarm upgrades in Purchasing building, dedicated power to fuel head pumps to allow pumps to be turned off without disabling other systems, additional security camera in North yard, irrigation system upgrade, and carbon monoxide detectors in small equipment shop.			

Budget Book Reference:	P-F2 (Public Works Yard)
Project:	I/O 50095 Public Works Yard: Doors
2016 Budget:	\$ 24,000
2016 Funding:	General Revenue
Asset Category:	Renewal
Project Description:	Replacement of Truck Barn exterior overhead doors which have reached end of useful life.

Budget Book Reference:	P-IT2 (Business Applications)		
Project:	P_5003 GIS Development		
2016 Budget:	\$ 45,000		
2016 Funding:	General Revenue		
Asset Category:	Renewal		
Project Description:	This project is the first step in the implementation of a computerized maintenance management system (CMMS). A CMMS is a software package that maintains a database of information about an organizations maintenance operations.		
	The first step will be to evaluate the organizations needs and develop a business case. The objective will be to lay the foundation for this application that has the potential to greatly improve efficiency, data access and service delivery.		

Budget Book Reference:

Project:

P-SS1 (Mains)

P_6168 DCC SS17: Jingle Pot to East Wellington

		20:	L4 Actuals	202	15 Budget	2	016 Budget	Tota	l Project Cost
Expenditures/Budget:	Sanitary Sewer - Design	\$	129,762	\$	314,238	\$	-	\$	444,000
	Sanitary Sewer - Construction	\$	-	\$	-	\$	3,024,000	\$	3,024,000
		\$	129,762	\$	314,238	\$	3,024,000	\$	3,468,000
Funding:	Sewer DCC's	\$	129,762	\$	314,238	\$	2,000,000	\$	2,444,000
	Sewer Reserve	\$	-	\$	-	\$	1,024,000	\$	1,024,000
		\$	129,762	\$	314,238	\$	3,024,000	\$	3,468,000
Asset Category:	New/Upgrade								
Project Description:	Project will upgrade 950 meters of Jingle Pot Road and Maxey Road asbestos cement sanitary sewer wellington Road.	to 600 n	nm diamete	r. As	well, 180 m	eter	s of existing 6	600 m	m diameter
Justification:	Pipe needs to be upsized due to e Master Plan.	existing	capacity sho	ortfalls	as identifie	d in	2012 Millstor	ne Tru	nk Sewer
Communication Plan:	Letters of notice to affected prop Site signage at project location Stakeholder consultation	erty							
Project Map:	the state of the s	TA THE AND			REDEM CHAR	GRTH	FIELD RD	Meret Meret	

Budget Book Reference:	P-SS1 (Mains)			
Project:	P_6215 DCC Sanitary Sewer Unspecified Projects			
2016 Budget:	\$ 75,000			
2016 Funding:	Sewer DCC's			
Asset Category:	New/Upgrade			
Project Description:	Annual budget for design and/or installation of new or upsizing of sanitary sewer infrastructure not in current year plan.			
Justification:	Allows the City to respond to opportunities that arise as a result of development.			

Budget Book Reference:	P-SS2 (Condition Assessment Program)			
Project:	I/O 80005 Sewer Infrastructure Monitoring and Model Calibration			
2016 Budget:	\$ 75,000			
2016 Funding:	Sewer Reserve			
Asset Category:	Renewal			
Project Description:	Annual program to operate and maintain sewer flow and rainfall monitoring stations located throughout the City.			
Justification:	Flow and rainfall data from monitoring stations is used to calibrate sanitary sewer models to evaluate pipe capacities and determine if and when pipe upgrades are required. Data from stations is also used to determine the quantity and type of rain related inflow & infiltration in sewer system. This will inform a future inflow and infiltration reduction strategy to support the Regional District of Nanaimo's Liquid Waste Management Plan.			

Budget Book Reference:	P-SS2 (Condition Assessment Program)			
Project:	I/O 80006 Sewer Infrastructure Condition Assessment Program			
2016 Budget:	\$ 400,000			
2016 Funding:	Sewer Reserve			
Asset Category:	Renewal			
Project Description:	Annual program to evaluate and assess condition of critical sanitary sewer mains in the City using Closed Circuit TV (CCTV) inspection.			
Justification:	 To identify: Pipes with deteriorating condition before potential failure, surcharging and backflow events occur Areas of rain related inflow and infiltration Information is used for renewal prioritization in Five Year Financial Plan and to update the City's Asset Management Plan. 			

Budget Book Reference:	P-SS2 (Design)
Project:	P_6105 Sanitary Sewer Designs
2016 Budget:	\$ 60,000
2016 Funding:	Sewer Reserve
Asset Category:	Renewal
Project Description:	Unallocated funding for design and scope changes to sanitary sewer projects. Examples include civil engineers, environmental consultants, geotechnical engineers, and others to facilitate projects.
Justification:	These funds are essential to completing projects in a timely manner and engaging consultants where needed.

Budget Book Reference:	P-SS2 (Mains)
Project:	I/O 80008 Sanitary Sewer Service Connection Upgrades
2016 Budget:	\$ 175,000
2016 Funding:	Sewer Reserve
Asset Category:	Renewal
Project Description:	Upgrade sewer services in Harewood area.
Justification:	To align with commitments made within the Regional District of Nanaimo's Liquid Waste Management Plan, this yearly program helps to reduce inflow and infiltration of rainwater into sewer system.

Budget Book Reference:	P-SS2 (Mains)			
Project:	I/O 80021 Sanitary Sewer: Road Rehabilitation			
2016 Budget:	\$ 100,000			
2016 Funding:	Sewer Reserve			
Asset Category:	Renewal			
Project Description:	Annual funding for adjustments, repairs or replacements to sanitary sewer infrastructure resulting from road rehabilitation projects in the current construction year. For example repairing and raising manholes to the new pavement grade, and repairing cracked or broken sanitary mains prior to paving.			

Budget Book Reference:	P-SS2 (Mains)
Project:	P_6103 Sanitary Infrastructure
2016 Budget:	\$ 200,000
2016 Funding:	Sewer Reserve
Asset Category:	Renewal
Project Description:	Annual program to cost share with development to add new, replace and/or upsize sanitary sewer infrastructure adjacent to the development site.
Justification:	Cost sharing with developers provides opportunities to complete priority projects at a reduced cost.

Budget Book Reference:	P-SD1 (Condition Assessment Program)
Project:	I/O 50048 Drainage Condition Assessment Program
2016 Budget:	\$ 150,000
2016 Funding:	General Revenue
Asset Category:	Renewal
Project Description:	Annual program to evaluate and assess condition of critical drainage mains in the City using Closed Circuit TV (CCTV) inspection.
Justification:	To identify mains with deteriorating condition before potential failure, surcharging or flooding events occur. Information is used for renewal prioritization in Five Year Financial Plan and to update the City's Asset Management Plan.

Budget Book Reference:	P-SD1 (Design)			
Project:	2_5005 Drainage Designs			
2016 Budget:	\$ 50,000			
2016 Funding:	General Revenue			
Asset Category:	Renewal			
Project Description:	Unallocated funding for design and scope changes to drainage projects. Examples include hydrology engineers, environmental consultants, others to facilitate projects.			
Justification:	These funds are essential to completing projects in a timely manner and engaging consultants where needed.			

Budget Book Reference:	P-SD1 (Mains)
Project:	P_5054 Drainage Infrastructure
2016 Budget:	\$ 75,000
2016 Funding:	General Revenue
Asset Category:	Renewal
Project Description:	Annual program to cost share with development to add new, replace or upsize drainage infrastructure adjacent to the development site.
Justification:	Cost sharing with the developers provides opportunities to complete priority projects at a reduced cost.

Budget Book Reference:	P-SD1 (Mains)						
Project:	P_5211 Wild Otter Esmt VIP52002 Drainage: St	arlight to	Willow Grou	se			
Budget:	Drainage - Design	\$	2016 25,000		2018	\$	Project Cost 25,000
	Drainage - Construction	\$ \$	25,000	\$ \$	240,000 240,000	\$ \$	240,000 265,000
Funding:	General Revenue	\$ \$	25,000 25,000	\$ \$	240,000 240,000		265,000 265,000
Asset Category:	Renewal						
Project Description:	Replacement of 350 and 450 mm diameter corr	ugated m	netal (CMP) o	draina	ge pipe.		
Justification:	Replacement required due to deteriorating con maintenance issues.	dition, as	pipes are co	rrodi	ng, and operat	tional a	nd
Project Map:	Risk of flooding and property damage from pipe	e failure.			3754RW		

Budget Book Reference:	P-SD1 (Mains)
Project:	I/O 50057 Fill Deposit Sites
2016 Budget:	\$ 25,000
2016 Funding:	General Revenue
Asset Category:	Renewal
Project Description:	Annual program to develop and maintain fill sites.
Justification:	Fill deposit sites are required to support maintenance activities and capital projects.

Budget Book Reference:	P-SD1 (Mains)				
Project:	I/O 50120 Hammond Bay Road Drainage: 1362 to 1380 Ivy Lane				
2016 Budget:	\$ 7,000				
2016 Funding:	General Revenue				

Total project costs including delayed watermain project P-7271 DCC W48 Hammond Bay Rd Watermain: Ivy to Sherwood that will be constructed with drainage main are:

-		201	2 Actuals		2015	2016	Тс	otal Project Cost
Expenditures/Budget:	Drainage	\$	-	\$	-	\$ 7,000	\$	7,000
	Watermain - Design	\$	6,544	\$	18,456	\$ -	\$	25,000
	Watermain - Construction	\$	4,887	\$	245,113	\$ -	\$	250,000
		\$	11,431	\$	263,569	\$ 7,000	\$	282,000
Funding:	Water DCC's	\$	4,001	\$	92,250	\$ -	\$	96,251
Ū	Water Reserves	\$, 7,430	\$	171,319	\$ -	\$	178,749
	General Revenue	\$	-	\$	-	\$ 7,000	\$	7,000
		\$	11,431	\$	263,569	\$ 7,000	\$	282,000
Project Description:	Replacement of 20 meters o Project will be completed in						l Bay I	Road.
Justification:	Existing CSP is corroded and	requires	replacemer	ıt.				
Communication Plan:	Letters of notice to affected Site signage at project locati Press release		/					
Project Map:	CHERWOOD DR		Los Contraction	T				



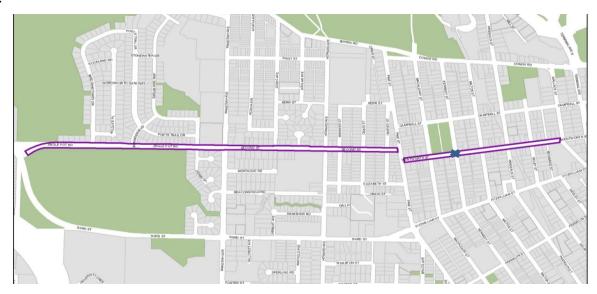
Budget Book Reference:	P-T1 (Cycling Amenities)						
Project:	P_5201 Bruce (4th to Bowen) - Cycling						
Budget:	Cycling Lanes - Design	\$	2016 25,000	Ś	2018	Tota l \$	Project Cost 25,000
	Cycling Lanes - Construction			\$	225,000	\$	225,000
		\$ \$	25,000	\$	225,000	\$	250,000
			-,			•	
Funding:	General Revenue	\$	25,000	\$	225,000	\$	250,000
-		\$	25,000	\$	225,000	\$	250,000
Asset Category: Project Description:	New/Upgrade Development of improved cycling facilities on This project is part of the Harewood Bikeway v Bruce / Tenth corridor.						
Justification:	Improve north-south cycling facilities in Harew Transportation Master Plan and Neighbourhoo		area of high cy	cling	potential and	consis	tent with the
Communication Plan:	Letters of notice to affected property Site signage at project location						

Project Map:



Budget Book Reference:	P-T1 (Cycling Amenities)
Project:	P_5201 Second Street Bikeway - Cycling
2016 Budget:	\$ 140,000
2016 Funding:	General Revenue
Asset Category:	New/Upgrade
Project Description:	Development of improved cycling facilities on Jingle Pot Road, Second Street and Wentworth Street from Third Street to Wallace Street. This project will develop cycling lanes from Jingle Pot Road to Pine Street and shared lanes on Wentworth Street from Pine Street to Wallace Street. As well, a traffic circle will be installed on Wentworth Street at Kennedy Street.
Justification:	This project will improve cycling facilities along the Jingle Pot/Second Street/Wentworth corridor and the traffic circle will calm traffic on Wentworth Street.
	This corridor was identified as a priority in the Transportation Master Plan.
Communication Plan:	Letters of notice to affected property Site signage at project location Stakeholder consultation Website information

Project Map:



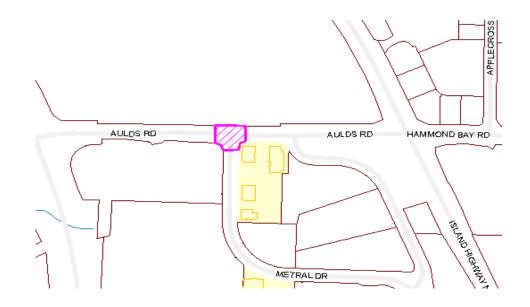
Purple indicates cycling lanes x indicates location of traffic circle

Budget Book Reference:	P-T1 (Design)
Project:	P_5081 DCC Road Designs & Unspecified Projects
2016 Budget:	\$ 100,000
2016 Funding:	Road DCC's
Asset Category:	New/Upgrade
Project Description:	Annual budget for design and/or installation of new or improvements to existing (to increase capacity) transportation infrastructure not in current year plan.
Justification:	Allows the City to respond to opportunities that arise as a result of development.

Budget Book Reference:	P-T1 (Pedestrian Amenities)
Project:	P_5200 Wakesiah Ave (Foster to Fourth) Sidewalk - Pedestrian
2016 Budget:	\$ 30,000
2016 Funding:	General Revenue
Asset Category:	New/Upgrade
Project Description:	Project will be removed from plan for final 2016 - 2020 Financial Plan.

Budget Book Reference:	P-T1 (Pedestrian Amenities)		
Project:	I/O 50012 Transportation Pedestrian: Aulds Rd @ Metral Dr - Audible Signal, Pedestrian Pushbuttons, Countdown Timers		
2016 Budget:	\$ 14,800		
2016 Funding:	General Revenue		
Asset Category:	New/Upgrade		
Project Description:	Upgrade older style pedestrian pushbuttons and hand/man pedestrian signal display with new bulldog pedestrian pushbuttons, LED hand/man overlay, countdown timer and audible pedestrian signals.		
Justification:	Pushbuttons are easier to operate, and provide feedback for the visually or hearing impaired. As well, countdown timers improve pedestrian safety at signals.		

Project Map:



Budget Book Reference:	P-T1 (Pedestrian Amenities)		
Project:	I/O 50014 Transportation Pedestrian: Bastion @ Commercial Countdown Timers		
2016 Budget:	\$ 6,400		
2016 Funding:	General Revenue		
Asset Category:	New/Upgrade		
Project Description:	Upgrade older style hand/man pedestrian signal display with new LED hand/man overlay and countdown timer pedestrian signal displays.		
Justification:	Countdown timers improve pedestrian safety at signals.		
Project Map:	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		

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Budget Book Reference:	P-T1 (Pedestrian Amenities)		
Project:	I/O 50022 Transportation Pedestrian: Hammond Bay @ Morningside Flasher		
2016 Budget:	\$ 15,000		
2016 Funding:	General Revenue		
Asset Category:	New/Upgrade		
Project Description:	Installation of side mount pedestrian activated warning flashers at existing school crosswalk adjacent to Hammond Bay Elementary at the corner of Hammond Bay Road and Morningside Drive.		
Justification:	Improves pedestrian safety by allowing pedestrians to identify themselves to approaching traffic.		
Project Map:	HAMMOND BAYRD		

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Budget Book Reference:	P-T1 (Pedestrian Amenities)	
Project:	I/O 50123 Transportation Pedestrian: Franklyn St @ Wesley	
2016 Budget:	\$ 15,000	
2016 Funding:	General Revenue	
Asset Category:	New/Upgrade	
Project Description:	Project will be move to 2017 for final 2016 - 2020 Financial Plan.	

Budget Book Reference:	P-T1 (Pedestrian Amenities)	
Project:	I/O 50124 Small Scale Street Improvements	
2016 Budget:	\$ 10,000	
2016 Funding:	General Revenue	
Asset Category:	New/Upgrade	
Project Description:	Small scale street improvements such as curb letdowns for crosswalks and/or other small scale civil works.	
Justification:	To respond to small scale issues indentified within the current budget year.	

Budget Book Reference:	P-T1 (Pedestrian/Cycling Amenities)		
Project:	I/O 50034 Transportation Pedestrian: Traffic Calming Program		
2016 Budget:	\$ 25,000		
2016 Funding:	General Revenue		
Asset Category:	New/Upgrade		
Project Description:	Physical measures (i.e. speed humps, traffic circles, signage or pavement marking) to reduce traffic speeds and volume on neighbourhood streets to acceptable levels. Technical review is done to confirm existing on- site conditions as well as a resident survey to meet both technical warrants and neighbourhood support.		
Justification:	Create safe communities and increase the livability of neighbourhoods of residents.		

Budget Book Reference:	P-T1 (Street Lights)		
Project:	I/O 50066 Sustainability: Street Lighting Reductions		
2016 Budget:	\$ 6,000		
2016 Funding:	Sustainability Initiatives Reserve		
Asset Category:	New/Upgrade		
Project Description:	Pilot project to upgrade street lights to more efficient technology such as LED lighting.		
Justification:	Reduces energy costs.		

Budget Book Reference:	P-T2 (Bridges)						
Project:	P_5229 Bastion Bridge						
			2016		2017	Total	Project Cost
Budget:		\$ \$	75,000	\$	550,000	\$	625,000
		\$	75,000	\$	550,000	\$	625,000
Funding	Concerci Accet Management Records	ć		ć	400.000	ć	400 000
Funding:	General Asset Management Reserve	\$	- 75,000	\$ \$	400,000		400,000
	General Revenue	\$ \$	75,000		150,000 550,000	\$ \$	225,000 625,000
		Ŷ	75,000	Ŷ	550,000	Ļ	023,000
Asset Category:	Renewal						
Project Description:	Structural upgrades to the Pastion Street Bridge	onging	oring work w	ill bo	undortakon in	2016	with
Project Description:	Structural upgrades to the Bastion Street Bridge construction occurring in 2017. Structural upgr						
	reinforcing, new guardrails, bearings, replacem		-				
	limited seismic upgrades.	entores	(parision joint	s anu	i le-uecking. E	uuget	liciudes
	innited seisinie upgrades.						
Justification:	A independent condition assessment of the brid	lge has i	dentified mai	ntena	ance work that	needs	to be
	undertaken if the bridge is to remain in service.						
	0						
Communication Plan:	Letters of notice to affected property						
	Site signage at project location						
	News releases						
	Website information						
Project Map:							
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Budget Book Reference:	P-T2 (Bridges)		
Project:	I/O 50082 Wellcox Yard Trestle Maintenance		
2016 Budget:	\$ 40,000		
2016 Funding:	General Revenue		
Asset Category:	Renewal		
Project Description:	Every year the trestle is thoroughly inspected and it is anticipated that additional annual replacement and upgrades will be required to keep the structure operational until a replacement or alternative access is in place.		
Justification:	The Port Trestle provides the only public access to the Wellcox Assembly Wharf. It is an older mostly wooden structure that is very close to the end of its useful life. Over the past 5 years there have been three projects to help extend the life of the structure by replacing rotted wooden components and adding steel reinforcing. It is expected that additional maintenance will be required for it to remain in service.		

Budget Book Reference:	P-T2 (Condition Assessment Program)	
Project:	I/O 50125 Road Condition Survey	
2016 Budget:	\$ 100,000	
2016 Funding:	General Revenue	
Asset Category:	Renewal	
Project Description:	A road condition assessment program is completed every three years and the information is used to update the City's pavement management system. The system generates optimum road surface replacement schedules which are used to identify priority projects for the five year Financial Plan and update the City's Asset Management Plan.	
Justification:	To ensure the pavement management system remains relevant and accurate.	

Budget Book Reference:	P-T2 (Planning & Design)
Project:	P_5000 Transportation Designs
2016 Budget:	\$ 100,000
2016 Funding:	General Revenue
Asset Category:	Renewal
Project Description:	Unallocated funding for design and scope changes to transportation projects. Examples include electrical consultants for traffic signals, traffic specialists for signal timing plans, geotechnical engineers and others to facilitate projects
Justification:	These funds are essential to completing projects in a timely manner and engaging consultants where needed.

Budget Book Reference:	P-T2 (Railway Crossings)			
Project:	I/O 50039 Railway Crossing Repairs			
2016 Budget:	\$ 25,000			
2016 Funding:	General Revenue			
Asset Category:	Renewal			
Project Description:	Annual program for minor repairs to railway crossings.			
Justification:	To maintain public safety of the railway crossings.			

Budget Book Reference:	P-T2 (Road Rehabilitation)
Project:	P_5010 Terminal Preservation - Rehabilitation
2016 Budget:	\$ 300,000
2016 Funding:	General Asset Management Reserve
Asset Category:	Renewal
Project Description:	Sections of the existing road are failing to the point that the road pavement sub-structure needs to be excavated and replaced in advance of the major road rehabilitation work planned.
Justification:	Structural failures on the road need to be addressed prior to the major road rehabilitation work planned for 2017 and 2018.

Project Map:



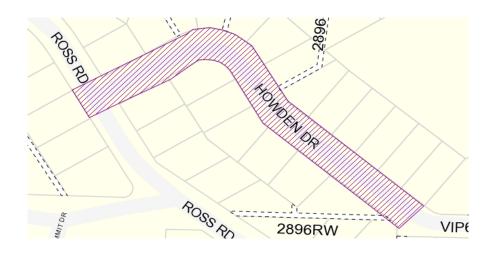
Budget Book Reference:	P-T2 (Road Rehabilitation)
Project:	P_5010 Major Road Rehabilitation - Unallocated
2016 Budget:	\$ 60,000
2016 Funding:	General Revenue
Asset Category:	Renewal
Project Description:	Unallocated road rehabilitation funding to address issues that arise during the year on major roads.

Budget Book Reference:	P-T2 (Road Rehabilitation)		
Project:	P_5013 Pavement Preservation		
2016 Budget:	\$ 162,100		
2016 Funding:	General Asset Management Reserve General Revenue	\$ \$ \$	100,000 62,100 162,100
Asset Category:	Renewal		
Project Description:	The use of preventative maintenance techniques locations indentified through the pavement mana pavement.		
Justification:	Preventative maintenance techniques are a cost e exceed their anticipated service life.	effective	way to ensure that the road surfaces meet or

Budget Book Reference:	P-T2 (Road Rehabilitation)
Project:	P_5013 Oceanview Terrace: Norasea to Bayshore
2016 Budget:	\$ 198,162
2016 Funding:	General Asset Management Reserve\$100,000General Revenue\$98,162\$198,162
Asset Category:	Renewal
Project Description:	Rebuilding of Oceanview Terrace from Norasea Road to Bayshore Drive.
Justification:	The road has reached end of life and requires replacement.
Project Map:	BAYSHORE DR BAYSHORE DR 3694RW 3694RW

Budget Book Reference:	P-T2 (Road Rehabilitation)
Project:	P_5013 Howden Dr Rehabilitation (Ross to End)
2016 Budget:	\$ 90,000
2016 Funding:	General Revenue
Asset Category:	Renewal
Project Description:	Rebuilding of Howden Drive from Ross to End. The watermain will be replaced prior to paving as a cost share with a development off Crystal Place.
Justification:	The road has reached end of life and requires replacement.

Project Map:



Budget Book Reference:	P-T2 (Road Rehabilitation)						
Project:	P_5013 Museum Way Rehabilitation (Commercial to back of Port of Nanaimo Centre)						
2016 Budget:	\$ 85,500						
2016 Funding:	General Revenue						
Asset Category:	Renewal						
Project Description:	Replace Museum Way paver road with coloured stamped concrete.						
Justification:	Existing block pavers are not performing to required standard resulting in operating, maintenance and liability issues.						
Project Map:							

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Budget Book Reference:	P-T2 (Road Rehabilitation)
Project:	P_5013 Local Road Paving Program Unallocated
2016 Budget:	\$ 23,338
2016 Funding:	General Revenue
Asset Category:	Renewal
Project Description:	Unallocated road rehabilitation funding to address issues that arise during the year on local roads.

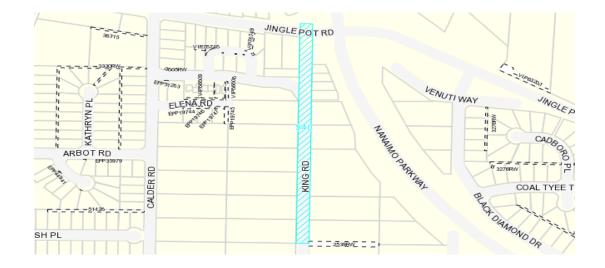
Budget Book Reference:	P-T2 (Road Rehabilitation)
Project:	P_5043 Road Infrastructure
2016 Budget:	\$ 100,000
2016 Funding:	General Revenue
Asset Category:	Renewal
Project Description:	Annual program to cost share with development on transportation related projects, (paving, road widening, sidewalks, etc) adjacent to development sites.
Justification:	Cost sharing with developers provides opportunities to complete priority projects at a reduced cost.

Budget Book Reference:	P-T2 (Street Lights)				
Project:	I/O 50052 Street Light Upgrades Annual Program				
2016 Budget:	\$ 50,000				
2016 Funding:	General Revenue				
Asset Category:	Renewal				
Project Description:	Replace and maintain street lights throughout the City.				
Justification:	Ensure street lights are functioning safely and properly.				

Budget Book Reference:	P-W1 (Distribution Mains)
Project:	P_7131 DCC Water Unspecified Projects
2016 Budget:	\$ 150,000
2016 Funding:	Water DCC's
Asset Category:	New/Upgrade
Project Description:	Annual budget for design and/or installation of new or upsizing of water infrastructure not in current year plan.
Justification:	Allows the City to respond to opportunities that arise as a result of development.

Budget Book Reference:	P-W1 (Distribution Mains)						
Project:	P_7277 King Rd Watermain: Jingle Pot to PZ Bou	indary					
			2016		2018	Tota	l Project Cost
Budget:	Watermain - Design	\$	25,000	\$	-	\$	25,000
-	Watermain - Construction	\$	-	\$	257,000	\$	257,000
		\$	25,000	\$	257,000	\$	282,000
Funding:	Water Reserve	\$	25,000	\$	257,000	\$	282,000
-		\$	25,000	\$	257,000	\$	282,000
Asset Category:	New/Upgrade						
Project Description:	Upsizing of a 1973 150 mm diameter watermain	n to 200	mm diamete	r.			
Justification:	2006 College Heights Water Study recommende minimum pressures in the area.	ed increa	asing waterma	ain di	iameter to imp	rove f	ire flows and

Project Map:



Budget Book Reference:	P-W1 (Distribution Mains)						
Project:	P_7293 Holland & East Wellington Looping Wat	ermain					
Budget:	Watermain - Design	\$	2016 30,000	\$	2018	\$	Project Cost 30,000
	Watermain - Construction	\$ \$	30,000	\$ \$	300,000 300,000	\$ \$	300,000 330,000
Funding:	Water Reserve	\$ \$	30,000 30,000	\$ \$	300,000 300,000		330,000 330,000
Asset Category:	New/Upgrade						
Project Description:	Construction of a new 200 mm diameter PVC w	atermai	n.				
Justification:	To strengthen the existing distribution system, to improve water quality .	to impro	ove fire flows,	to ind	crease minimu	m pre	ssures and
Project Map:	120 120 120 120 120 131 130 130	the second secon	op in		2194 Jack		42 ²

Budget Book Reference:	P-W1 (Distribution Mains)						
Project:	P_7341 DCC W49 Departure Bay Rd Watermain:	Upland	s to Rock City	/ Rd			
			2015		2016	Total	Project Cost
Budget:	Watermain	\$ \$	2,000	\$	328,000	\$	330,000
		\$	2,000	\$	328,000	\$	330,000
Funding:	Water DCC's	\$	2,000	\$	328,000	\$	330,000
		\$ \$	2,000	\$	328,000	\$	330,000
Asset Category:	New/Upgrade						
Project Description:	Upgrade 250 meters of existing 200 mm diameter	er water	rmain to 250	mm d	liameter.		
Justification:	Larger diameter watermain is required to service minimum fire flows.	e growtł	n and provide	mini	mum operatir	g pres	sures and
Communication Plan:	Letters of notice to affected property Site signage at project location Stakeholder consultation News releases						
Project Map:	EPP45549		DEPART	URE	ROCK CITY RD		

Budget Book Reference:	P-W1 (Supply Mains)									
Project:	P_9260 DCC WS41: #1 Reservoir to College Pk Dup Supply WM									
		2	2012 - 2014 Actuals	20)15 Budget	2	016 Budget	21	017 Budget	Total Project Cost
Expanditures / Budgets	Watermain (Supply)	ć		\$	794,979	Ś	2,110,000		0	
Expenditures/Budget:	watermain (Supply)	ې \$	2,255,692 2,255,692	ې \$	794,979 794,979	ې \$	2,110,000	\$ \$	2,110,000 2,110,000	\$ 7,270,671 \$ 7,270,671
Funding:	Government Grant - Federal	\$	1,842,000	\$	-	\$	-	\$	-	\$ 1,842,000
C	Water DCC's	\$	413,692	\$	744,979	\$	1,582,500	\$	1,582,500	\$ 4,323,671
	Water Reserve	\$, -	\$	50,000	\$	527,500	\$	527,500	\$ 1,105,000
		\$	2,255,692	\$	794,979	\$	2,110,000	\$	2,110,000	\$ 7,270,671
Asset Category:	New/Upgrade									
Project Description:	The construction of a new water supply main from the intersection of Dogwood and Nanaimo Lakes to College Park Reservoir. The final phase of the duplicate main is currently in the engineering/design phase and will be constructed in 2016/2017. Phase one was completed in 2013. The dogwood PRV (separate project) will be replaced in conjunction with this project for \$280,000 in 2017.									
Justification:	To address capacity issues in N in existing reservoirs.	orth	Nanaimo an	d su	ipport devel	opr	nent. Projec	t wil	l also improv	e fire storage

Project Map:



Budget Book Reference:	P-W2 (Condition Assessment Program)
Project:	I/O 70008 Water Infrastructure Condition Assessment Program
2016 Budget:	\$ 100,000
2016 Funding:	Water Reserve
Asset Category:	Renewal
Project Description:	Annual program to evaluate and assess condition of critical watermains in the City.
Justification:	To identify pipes with deteriorating condition to minimize infrastructure failure and maintain operating pressures and fire flows. Information is used to identify priority projects for five year Financial Plan and update the City's Asset Management Plan.

Budget Book Reference:	P-W2 (Condition Assessment Program)
Project:	I/O 90015 Water Supply: Leak Detection Study
2016 Budget:	\$ 30,000
2016 Funding:	Water Supply Reserve
Asset Category:	Renewal
Project Description:	Completion of leak detection surveys to manage the City's water losses and maintain the current low water leakage levels.

Budget Book Reference:	P-W2 (Design)
Project:	P_7105 Water Designs & Studies
2016 Budget:	\$ 60,000
2016 Funding:	Water Reserve
Asset Category:	Renewal
Project Description:	Unallocated funds for design and scope changes to water projects. Examples include civil engineers, environmental consultants, geotechnical engineers, and others to facilitate projects.
Justification:	These funds are essential to completing projects in a timely manner and engaging consultants where needed.

Budget Book Reference:	P-W2 (Distribution Mains)
Project:	I/O 70010 Water: Road Rehabilitation
2016 Budget:	\$ 200,000
2016 Funding:	Water Reserve
Asset Category:	Renewal
Project Description:	Annual funding for adjustments, repairs or replacements to water infrastructure resulting from road rehabilitation projects in the current construction year. For example raising values to the new pavement grading, and replacing older mains and services prior to paving.

Budget Book Reference:	P-W2 (Distribution Mains)
Project:	P_7104 Water Infrastructure
2016 Budget:	\$ 300,000
2016 Funding:	Water Reserve
Asset Category:	Renewal
Project Description:	Annual program to cost share with development on adding new, replacement and/or upsizing of water distribution infrastructure adjacent to development sites.
Justification:	Cost sharing with developers provides opportunities to complete priority projects at a reduced cost.

Budget Book Reference:	P-W2 (Distribution Mains)
Project:	P_7291 Wall St Watermain: Pythian Lane to Curling Club
2016 Budget:	\$ 250,000
2016 Funding:	Water Reserve
Asset Category:	Renewal
Project Description:	Replacement of 270 meters of existing 1930's era cast iron watermain on Wall Street between Comox Ave and Pythian Lane.
Justification:	The aging cast iron pipe has deteriorated causing low flows and operational and maintenance issues. This watermain has also experienced a break.
Communication Plan:	Letters of notice to affected property Site signage at project location
Project Map:	PYTHIAN LN1293RW-!'= = = = = = = = = = = = = = = = = = =



Budget Book Reference: P-W2 (Distribution Mains)

Project: P_7302 Eberts St Watermain: Millstone to Townsite

TOWNSITERD

		201	4 Actuals	20	15 Budget	20)16 Budget	Total	Project Cost
Expenditures/Budget:	Watermain - Design	\$	20,133		14,867	\$	-	\$	35,000
	Watermain - Construction		-	\$	-	\$	370,000	\$	370,000
		\$ \$	20,133	\$	14,867	\$	370,000	\$	405,000
Funding:	Water Reserve	¢	20,133	¢	14,867	\$	370,000	Ś	405,000
i unung.	water neserve	\$	20,133		14,867	·	370,000		405,000
Asset Category:	Renewal								
Project Description:	Replace 580 meters of existir	ng 1950's	s era cast irc	n wate	ermain.				
Justification:	The aging cast iron pipe has on watermain has also experient		-	low flo	ows and oper	ationa	al and mainter	nance i	ssues. The
Communication Plan:	Letters of notice to affected p Site signage at project location								
Project Map:	Lingende	HUNTE	EPP14391	AND					

BEGBIE ST

P-W2 (Distribution Mains)

Budget Book Reference:

Project:	P_7287/P_7306 Nanaimo Pl	ky & Crar	nberry Wate	rmair	ı			
			2016		2017		2018	Project Cost
Budget:	Watermain - Design	\$	20,000	\$	16,000	\$	-	\$ 36,000
	Watermain - Construction	\$ \$	-	\$	-	\$	366,606	\$ 366,606
		\$	20,000	\$	16,000	\$	366,606	\$ 402,606
Funding:	Water Reserve	\$	20,000	\$	16,000	\$	366,606	\$ 402,606
		\$	20,000	\$	16,000	\$	366,606	\$ 402,606
Asset Category: Project Description:	Renewal Replacement of 1972 150 m Ave and construction of a ne and Extension Road.							
Justification:	Replacement on Cranberry / due to thin walls which are p breaks. Removal of dead end on Wil operating pressures, minimu	orone to Ison Roa	breaks. This d with new l	wate	ermain has exp ng will improve	oeriei mini	nced three mum	
Project Map:					^E ER MU		327 MW	

V(P87140

FOURTEENTH ST

JESSE RD

-= PLPE-

FRA

321

Budget Book Reference:	P-W2 (Distribution Mains)			
Project:	P_7313 Fourth St Watermain: Wakesiah to Harewo	ood		
Budget:	Watermain - Design Watermain - Construction	2015 \$ 60,000 \$ -	2016 \$ - \$ 640,000	Total Project Cost \$ 60,000 \$ 640,000
		\$ - \$ 60,000	\$ 640,000	\$ 700,000
Funding:	Water Asset Management Reserve	\$ 60,000 \$ 60,000	\$ 640,000 \$ 640,000	
Asset Category:	Renewal			
Project Description:	Replacement of 700 meters existing 450 mm diame	eter watermain.		
Justification:	Steel watermain has experienced six breaks in the l operational and maintenance issues.	last 4 years. As we	ell, the valves regul	arly seize and cause
Communication Plan:	Letters of notice to affected property Site signage at project location			
Project Map:		AYSGAF		SHEPHERD AVE

HOWARD AVE

RENFREW ST

OURTH:

MBERT AVE

Budget Book Reference:	P-W2 (Distribution Mains)						
Project:	P_7329 Hillside Ave Watermain						
Budget:	Watermain - Design Watermain - Construction	\$	2016 20,000	\$ ¢	2018 221,000	Total \$ \$	Project Cost 20,000 221,000
	Watermain - Construction	\$ \$	20,000	\$ \$	221,000		221,000
Funding:	Water Reserve	\$ \$	20,000 20,000 20,000	\$ \$	221,000 221,000 221,000	\$ \$	241,000 241,000 241,000
Asset Category:	Renewal						
Project Description:	Replacement of existing asbestos cement water new 100 mm diameter PVC watermain to impro					nstruc	tion of a
Justification:	Replacement section is part of the 100 mm diam walls which are prone to breaks. Nanaimo Water Servicing Study recommended of minimum operating pressures and water quality	onstru					
Project Map:	ST ST				EF	P2517	EPP25171

HILLSIDE AVE

UPLANDS

EPP25173-1.12 EPP25176

34096

≥ E

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MIDGELL UPLANDS DR

17<u>50</u>RW

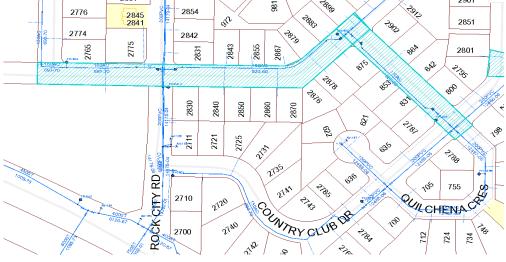
Budget Book Reference:	P-W2 (Distribution Mains)						
Project:	P_7332 Marban/Alberta Watermain						
Budget:	Watermain - Design Watermain - Construction	\$ \$ \$	2015 15,000 - 15,000	\$ \$ \$	2016 413,000 413,000	\$ \$	Project Cost 15,000 413,000 428,000
Funding:	Water Reserve	\$ \$	15,000 15,000		413,000 413,000		428,000 428,000
Asset Category:	Renewal						
Project Description:	Replacement of 540 meters of 1970's era asbesto	os cen	nent waterma	in on	Marban Road	and Al	berta Road.
Justification:	Watermain has experienced a break. As well, pa program due to thin walls which are prone to bre		he 100 mm dia	amete	er asbestos cer	nent r	eplacement
Communication Plan:	Letters of notice to affected property Site signage at project location						
Project Map:				EPP10549			RD WEST

Budget Book Reference:	P-W2 (Distribution Mains)						
Project:	P_7344 Wakesiah Lane Watermain: Harewood t	o Four	th				
Budget:	Watermain - Design Watermain - Construction	\$ \$ \$	2016 40,000 -	\$ \$	2018 - 517,000	\$ \$	Project Cost 40,000 517,000
Funding:	Water Reserve	\$ \$ \$	40,000 40,000 40,000	\$ \$ \$	517,000 517,000 517,000	\$	557,000 557,000 557,000
Asset Category:	Renewal						
Project Description:	Replacement of 1946 150 mm diameter asbesto	s ceme	ent watermain	due t	o condition.		
Justification:	The aging asbestos cement pipe has deteriorate flows.	d causi	ng operationa	l and	maintenance	issues	and low
Project Map:	FIFTH ST				REN AND GRAMOH	FREW S	GEORGIA AVE

DUNE

REGAL ST

Budget Book Reference:	P-W2 (Distribution Mains)						
Project:	P_7345 Glen Eagle Cres & Quilchena Watermain						
Budget:	Watermain - Design Watermain - Construction	\$ \$	2016 35,000 -	\$ \$	2018 - 329,000	\$	Project Cost 35,000 329,000
		\$	35,000	\$	329,000	\$	364,000
Funding:	Water Reserve	\$ \$	35,000 35,000		329,000 329,000		364,000 364,000
Asset Category:	Renewal						
Project Description:	Replacement of 1960 150 mm diameter asbestos	cemer	nt watermain	due	to condition.		
Justification:	The watermain on Quilchena Crescent is part of th and high pressure asbestos cement watermain.	ne Asso	et Manageme	ent St	rategy to repla	ace old	(>40 years)
	The aging watermain of Glen Eagle Crescent has d	eterio	rated and exp	oerie	nced a break.		
Project Map:	2776 2851 2845 2845 2844 3 2854 3 3	981		"	13412	290	



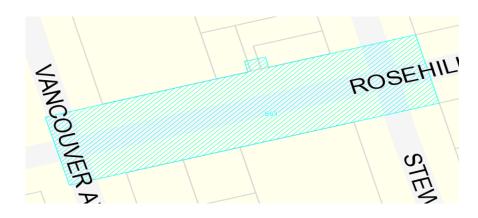
Budget Book Reference:	P-W2 (Distribution Mains)
Project:	P_7346 Lundgren Esmt VIP 37175 Watermain: Labieux to End
2016 Budget:	\$ 120,000
2016 Funding:	Water Reserve
Asset Category:	Renewal
Project Description:	Replacement of 100 meters of asbestos cement watermain on Lundgren Road.
Justification:	Part of the 100 mm diameter asbestos cement replacement program due to thin walls which are prone to breaks.
Communication Plan:	Letters of notice to affected property Site signage at project location Stakeholder consultation

Project Map:



Budget Book Reference:	P-W2 (Distribution Mains)
Project:	P_7349 Rosshill St Watermain: Vancouver to Stewart
2016 Budget:	\$ 90,000
2016 Funding:	Water Reserve
Asset Category:	Renewal
Project Description:	Replacement of 130 meters of 1940's era cast iron watermain.
Justification:	The aging cast iron pipe has deteriorated causing low flows and operational and maintenance issues.
Communication Plan:	Letters of notice to affected property Site signage at project location

Project Map:



Budget Book Reference:	P-W2 (Distribution Mains)
Project:	P_7365 Hawkins Rd Watermain: End to End
Budget:	2016 2018 Total Project Cost Watermain - Design \$ 28,000 \$ - \$ 28,000 Watermain - Construction \$ - \$ 343,000 \$ 343,000 \$ 28,000 \$ 343,000 \$ 371,000
Funding:	Water Reserve \$ 28,000 \$ 343,000 \$ 371,000 \$ 28,000 \$ 343,000 \$ 371,000
Asset Category:	Renewal
Project Description:	Replacement of 1956 150 mm diameter cast iron watermain due to condition and construction of a new looping watermain.
Justification:	The aging cast iron watermain sections have deteriorated and experienced breaks. Construction of a new looping watermain will provide minimum operating pressure and fire flows, improve fire flows and strengthen the existing distribution system.
Project Map:	1 1

Budget Book Reference:	P-W2 (Distribution Mains)						
Project:	P_7375 King John & Esmt Watermain: Smuggler	s Hill & S	carlet Hill				
			2016		2018	Total	Project Cost
Budget:	Watermain - Design	\$	28,000	\$	-	\$	28,000
	Watermain - Construction	\$	-	\$	283,200	\$	283,200
		\$	28,000	\$	283,200	\$	311,200
Funding:	Water Reserve	\$	28,000	\$	283,200	\$	311,200
		\$	28,000	\$	283,200	\$	311,200
Asset Category: Project Description: Justification:	Renewal Replacement of 1962 & 1969 150 mm diameter The watermain has deteriorated causing operati watermains in the two easements on each side of properties at a higher level than the dwellings we event of a failure.	onal and of the Kir	l maintenano ng John Way	ce issi cul-d	ues. The section e-sac are at th	ons of t e back	of the



Project Map:

Budget Book Reference:	P-W2 (Misc Projects)
Project:	I/O 70014 Water Meter Replacement Program
2016 Budget:	\$ 330,000
2016 Funding:	Water Reserve
Asset Category:	Renewal
Project Description:	Annual replacement program for residential (\$230k) and commercial (\$100k) water meters to improve recording of consumption and ensure customers are paying for all water consumed.
Justification:	2012 Water Audit identified that older residential water meters are under registering and some large water meters in industrial and commercial properties are oversized and under recording low flows.

Budget Book Reference:	P-W2 (Misc Projects)
Project:	I/O 90004 WPC - Decommissioning
2016 Budget:	\$ 100,000
2016 Funding:	Water Supply Reserve
Asset Category:	Renewal
Project Description:	Once the Water Treatment Plant is online the Water Process Centre will no longer be required to treat City water. The station will be decommissioned and the chlorination equipment will be disposed of.

Budget Book Reference:	P-W2 (Misc Projects)			
Project:	I/O 90008 Telemetry Improvement			
2016 Budget:	\$ 30,000			
2016 Funding:	Water Supply Reserve			
Asset Category:	Renewal			
Project Description:	The City's supervisory control and data acquisition (SCADA) system and telemetry provide continuous 24/7 monitoring, trending, control and alarm status recognition of outstations which operate critical water and sewer station infrastructure. On-going work includes computer servers, radios, antennas and programmable logic controllers (PLCs).			

Budget Book Reference:	P-W2 (Pump Station/PRV Program)
Project:	P_7279 Bay and Neyland PRV
2016 Budget:	\$ 150,000
2016 Funding:	Water Reserve
Asset Category:	Renewal
Project Description:	Replacement of 1980 PRV station at Bay Street and Neyland Road.
Justification:	Station is now sub-standard and in deteriorating condition with valves, piping and chamber all rated in poor condition in a 2014 condition assessment of all City PRVs.

Project Map:



Budget Book Reference:	P-W2 (Pump Station/PRV Program)						
Project:	P_9263 Towers Pump Station Rehab						
			2016		2017	Total	Project Cost
Budget:		\$	25,000	\$	100,000	\$	125,000
		\$	25,000	\$	100,000	\$	125,000
Funding:	Water Supply Reserve	\$	25,000	\$	100,000	\$	125,000
		\$	25,000	\$	100,000	\$	125,000
Asset Category:	Renewal						
Project Description:	Upgrade to existing pump station. Design work t	to be c	ompleted in 2	016 w	ith constructi	on in 2	2017.
Justification:	Existing pump station is nearing end of useful life station to receive water.	e and a	number of ho	mes	at high elevati	on rel	y on this

Budget Book Reference:	P-W2 (Reservoirs)
Project:	P_9264 Duke Point Reservoir Upgrades
2016 Budget:	\$ 75,000
2016 Funding:	Water Supply Reserve
Asset Category:	Renewal
Project Description:	Recoating of steel reservoir.
Justification:	To protect the steel from possible corrosion recoating is required at this stage in the life-cycle of the reservoir.

Budget Book Reference:	P-W2 (Supply Mains)
Project:	I/O 90023 Water Supply: South Fork Tunnel Coating
2016 Budget:	\$ 50,000
2016 Funding:	Water Supply Reserve
Asset Category:	Renewal
Project Description:	Repair to the coating of the water supply main (main intake pipe line) at South Forks Dam.
Justification:	A routine tunnel inspection uncovered deficiencies on the coating

Budget Book Reference:	P-W2 (Water Supply Dams)
Project:	I/O 90007 Annual Dam Safety Reviews: Water Supply Dams
2016 Budget:	\$ 18,000
2016 Funding:	Water Supply Reserve
Asset Category:	Renewal
Project Description:	Formal inspection of water supply dams - Jump Creek Dam and South Fork Dam by a third party engineer.
Justification:	Annual dam safety inspections are required as per the British Columbia Dam Safety Regulation, a regulation under the Water Act.

Budget Book Reference:	P-W2 (Water Supply Dams)
Project:	I/O 90020 Dam Safety Assessments/Upgrades
2016 Budget:	\$ 100,000
2016 Funding:	Water Supply Reserve
Asset Category:	Renewal
Project Description:	An engineering review will be undertaken to determine the structural adequacy of the existing log boom anchor points at Jump Creek Dam and South Fork Dam to determine if improvements are necessary. If deemed inadequate, new log boom anchor points will be engineered and constructed in 2017.
Justification:	The 2013 dam safety review for Jump Creek Dam and South Fork Dam indicated that the review of the existing log boom anchor points was of 'very high' priority.