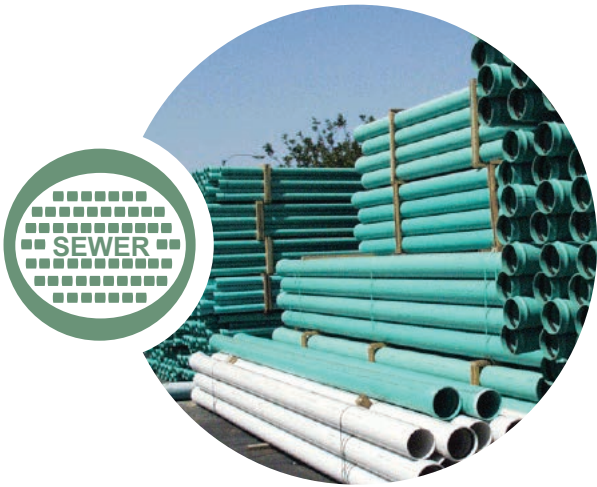


# 2016 FACT SHEET



## ENGINEERING SEWER UTILITY

The Sewer Utility  
net 2016  
budget is  
\$27,148,100

### WHAT IS SEWER UTILITY?

The Saanich sewer system includes 550 km of sewer mains, approximately 29,700 service connections, 5,300 manholes and 40 lift stations. The majority of the sewer system was constructed between 1953 and the early 1970s using asbestos cement materials. The system collects wastewater for the majority of Saanich residents and discharges the effluent to the regional sewer system operated by the Capital Regional District.

### DID YOU KNOW WE PROVIDE?

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#### Administration & Field Operations:

This group provides overall management and administrative support for all sections including clerical support, public engagement, and communications. This includes sewer capital planning and project management, administering and coordinating the auxiliary call list, daily time records, hired and municipal equipment tracking, purchase reconciliation and the provision of equipment and safety training.

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**Net cost \$1,551,900**

#### Sewer Mains Cleaning:

High pressure water jetting is used to flush accumulated debris and grease, often due to flat grades, clear blockages and root infiltration and deal with all other forms of blockage and reduced flow. Approximately 250 km or 20% of the system is cleaned each year on a priority scheduled basis to ensure the entire system is cleaned once every five years.

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**Net cost \$183,800**

# 2016 FACT SHEET

## ENGINEERING SEWER UTILITY



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### Sewer Mains Repair:

Approximately 40 sewer mains are repaired each year. The excavation and repair of a sewer main due to collapse, shear break or blockage includes removal of damaged pipe sections, bedding, backfilling and restoration of surface.

**Net cost \$130,200**

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### Sewer Lift Stations Maintenance:

Sewer lift stations handle wastewater delivered through underground gravity sewer pipelines. Wastewater is collected in an underground chamber or wet well. At a predetermined set point a pump will start and lift the wastewater through a pressurized pipe system until it can flow by gravity into and through the collection system. The annual maintenance program includes station cleaning, pressure washing, and pump, generator, site maintenance, electrical and SCADA maintenance.

**Net cost \$1,004,200**

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### Manholes Repair or Replacement:

Approximately 80 manholes are repaired or replaced each year due to age and structural failure. Repairs and replacements involve site excavation, removal and replacement of damaged structure, replacement of bedding, site backfilling and restoration of the surface area.

**Net cost \$66,700**

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# 2016 FACT SHEET

## ENGINEERING SEWER UTILITY



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### Service Connections Repair:

This program repairs or replaces sanitary service connections due to age, deterioration or otherwise improper function. All repairs involve excavation and repair, removal of damaged pipe sections, bedding, backfilling and restoration of surface.

**Net cost**    **\$250,100**

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### Customer Service Requests:

The section responded to 529 customers and internal department requests in 2015 to inspect mains and laterals for defects, blockages and possible invert conflicts. Problems are diagnosed and repaired where possible.

**Net cost**    **\$48,700**

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### Video Inspections:

Video assessment and investigation is a key component to the operations and maintenance program. Video information is used in determining life span and conditional assessment of existing sewer mains and services.

**Net cost**    **\$92,000**

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### Debt Servicing & Contingency:

This budget is used to service the borrowing costs for capital projects and to allow for a small contingency for emergency expenditure.

**Net cost**    **\$1,702,000**

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# 2016 FACT SHEET

## ENGINEERING SEWER UTILITY



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### Regional Sewer Treatment:

Treatment of sewer effluent is provided by the Capital Regional District. Operating cost and debt charges for the regional sewer system is shared by those municipalities connected to the regional system, including Saanich.

**Net cost \$8,409,500**

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### Capital Program:

With 64% of the sewer mains being asbestos cement (AC) pipe and requiring replacement and with lift stations' electrical, mechanical and structural components nearing their end of useful life, sustainable infrastructure replacement is a priority for the District. Annual funding (\$5,985,000 in 2016) for infrastructure replacement is increasing annually as per council policy and will reach sustainable levels by 2019.

**Net cost \$13,709,000**

