



CORPORATION OF THE TOWNSHIP OF ESQUIMALT

Municipal Hall
1229 Esquimalt Road
Esquimalt, B.C. V9A 3P1

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PERIOD REPORT

DATE: May 9, 2016 Report No. EPW-16-014
TO: Laurie Hurst, Chief Administrative Officer
FROM: Jeff Miller, Director of Engineering and Public Works
SUBJECT: Engineering and Public Works - 2016 First Period Report

The following is a report on the activities pertaining to the Engineering and Public Works from January 1, 2016 to April 30, 2016.

I. DIVISION ACHIEVEMENTS AND ACTIVITIES

1. Sanitary Sewers

- 9 service lateral installed/replaced this period (total for the year = 9)
- 0 test and clear inspection has been carried out for this period (total for the year = 0)
- 0 manholes replaced this period (total for the year = 0)

2. Pump Stations

- Crews have been carrying out routine maintenance activities.
- Preparing request for quotation for annual maintenance program that will include pump maintenance and controls inspection.
- Uganda pump station suffered a catastrophic power failure. Crews maintained pump station operation with portable generator while power supply was repaired.

3. Storm Drains

- 5 service lateral installed/replaced this period (total for the year = 5)
- 0 test and clear inspection has been carried out for this period (total for the year = 0)
- 0 manhole replaced this period (total for the year = 0)

4. Manhole Separation

- Funds allocated to 2015 Manhole Separation Program to be utilized on a case by case basis due to complexity of manhole separation. This work will be carried out in 2016 and beyond.
- A total of 78 manholes were separated over the five year program.
- Remaining combined manholes is 42
- 18 end of pipe
- 21 within easements on private property
- 3 not on easements on private property

5. Waste Management

Waste Water - inflow and Infiltration

- Staff is working on the development of the parameters of the approved strategy.
- In the second period, a request for proposal for modeling of the sanitary collection system is to be released.
- Interpretation of smoke testing results to take place in the second period.

Liquid Waste Management Plan

- Staff participated on the development of various aspects of a sub-regional treatment system both through Westside Solutions and the CRD.
- Staff has participated on the communication, technical and administrator committees.

Integrated Watershed Management

- CRD working on common design guidelines for storm water management in a phased stage approach. Staff participating as a member of the committee.

6. Roads

- Pothole repair being carried out as required.
- Spring clean has been carried out.
- Crack sealing program is scheduled to begin in early part of the second period. Supplies have been ordered.
- Carried out surface restoration for third parties.
- Approximately 112 tonnes of asphalt placed for the period (total for the year = 112 tonnes)

7. Traffic Management

- Preliminary preparation work was initiated on the traffic count analysis and various other studies for potential corridor modification.

8. Sidewalks - Maintenance

- Carried out surface restoration for third parties.
- Approximately 56 cubic meters of concrete (includes curb and gutter and sidewalk

panels) was placed (total for the year = 56 cubic meters)

- Approximately 226 linear meters was replaced for the period (total for the year = 226 linear meters)

9. Sidewalk Ramps

- Two sidewalk ramps will be installed this year under the capital program.
- The locations of the ramps are being determined.

10. Trip Hazards

- As per Council Policy PLAN-17 Sidewalk Maintenance, trip hazard inspection survey has been completed.
- Survey determined that there are:
 - 28 - No. 1 trip hazards
 - 81 - No. 2 trip hazards
 - 153 - No. 3 trip hazards
- Work will begin in the second period for correction of the hazards.

11. Regional Transportation Plan

- The Township is waiting on the CRD to begin discussions on the Regional Transportation Plan.

12. Bus Shelters

- Normal maintenance schedule underway.
- Includes refuse collection, graffiti removal and power washing of the shelters and sidewalks adjacent to them.

13. Solid Waste Management

Garbage and Kitchen Scraps Collection

- Operations normal
- Number of additional garbage and organic bins purchased to the end of period = 12 (total additional bins purchased since 2014 = 132)
- Tonnage of garbage waste stream collected for period = 333.17 (total for the year = 333.17)
- Tonnage of kitchen scraps collected for period = 167.36 (total for the year = 167.36)
- Total Tonnage for year = 500.53 (total for same period 2015 = 489.68)
- CRD is continuing the program processing of kitchen scraps in out of region locations.
- The CRD will be looking at the possibility of combining kitchen scraps, bio solids and yard/garden waste. No schedule has been communicated to the Township for this.
- It is expected that tipping fee for kitchen scraps will increase from \$110 per tonne to \$120 per tonne in 2017.

Yard and Garden

- Operations normal
- Usage of transfer station during period: January to March
 - Esquimalt residents = 4,041 (total for the year = 4,041).
 - View Royal residents = 1,562 (total for the year = 1,562).

- Commercial = 85 (total for the year = 85).
- Tonnage removed from site = 363.77 (total for the year = 363.77).
- Tonnage removed in 2015 first period = 369.94 (total for 2015 = 2188.75).
- Contract is in the last six months of life. Working with Town of View Royal onto determine look of new contract.

Recycling

- Operations normal

14. Fleet

- Operations normal
- Fleet purchase for 2016 has begun. Units to be purchased:
 - Concrete mixer
 - 1 ton service truck
 - Command unit
 - Van
 - Crew cab with dump box
- Beginning update on Fleet Plan.

15. Work for Others

- Work orders for call outs and/or repairs at View Royal pump stations for the period = 2 (total for the year = 2).
- Work orders issued for asphalt/sidewalk repairs following work by other utilities for the period = 17 (total for the year = 17).
- Work orders issued for sanitary and storm services to accommodate new development in the period = 4 (total for the year = 4)

16. Capital Projects

16.1 Traffic Counts

- Traffic counts for road network were carried out at the end and beginning of first and second periods.
- Preparing a request for proposals for analysis of this data plus previous data for interpretation of traffic movements in the second period.

16.2 Lampson Street Corridor Cross Section Study

- Study to be carried out to determine corridor's ability to accept bike lanes in order to increase its multi modal orientation.
- Preparing a request for proposals in second period.

16.3 Tillicum Street Corridor Study

- Study to be carried out to determine the impact of the addition of a signalized intersection between Gorge Park and Craigflower Road on traffic movements.
- Preparing a request for proposals in the second period.

16.4 Lyall Street Corridor Study

- The study will look at the corridor's cross section to determine if it should be modified

and how.

- Preparing a request for proposals in the second period.

16.5 Review of Public Works Fuel Tanks

- The study will review the integrity of the fuel tanks at Public Works and confirm the condition that of the tanks.
- Preparing a request for proposals in the second period.

16.6 Inspection of Masonry Structures

- An inventory of the masonry structures has been completed.
- In the second period a consultant will be retained to assist in the assessment of the structures.

16.7 Municipal Hall Upgrade

- The flooring in the Municipal Hall requires upgrading due to its age and usage.
- In addition the common areas of the Hall require painting.
- Preparing a request for quotation for the second/third period.

16.8 Replacement of Emergency Generator at Public Works

- This project will upgrade the emergency generator to ensure that the public works operations and secondary emergency operations centre will not be impeded by a lack of power.
- A tender will be issued in second/third period.

16.9 Colville/Hutchinson Intersection Upgrade

- This project will see the intersection of Colville and Hutchinson upgraded to facilitate pedestrian movements and bus stop shelters.
- Design work was initiated in 2015 with work to be carried out in the first half of 2016.

16.10 Esquimalt Road and Lampson Road Intersection Upgrade

- This project will undertake the upgrade of the existing infrastructure for the signalized intersection and remove the Township's dependency on the usage of BC Hydro poles.
- Design of the upgrade has been completed and the project will go out for tender in conjunction with the Old Esquimalt and Lampson Road Intersection Upgrade project.
- A tender will be issued for the work in the first half of 2016.

16.11 Old Esquimalt and Lampson Intersection Upgrade

- The intersection will be refitted with new light infrastructure and light sequence.
- The design and construction is anticipated to be completed in conjunction with the Esquimalt Road and Lampson Street intersection.

16.12 Admirals Road Corridor

- Surface works were completed in 2015.
- Remaining work is the installation of LED streetlights that will occur in the second/third period.

16.13 Catch Basin Replacement

- This is the last year of a three year program.
- The program will replace catch basins that have come to the end of their operational life.
- The new catch basins will meet today's standards to assist in the control of sediment to receiving bodies.
- There are a total of 60 catch basins that are included in the program.
- 41 catch basins have been replaced in the last two years.
- It is anticipated that 20 catch basins will be replaced in 2016.
- There were 14 catch basins replaced in this period (a total of 14 this year).

16.14 Sidewalk Capital Program

- This project increases the sidewalk network in length and improves connectivity.
- The program will see the installation of a concrete sidewalk between Esquimalt Road and Old Esquimalt Road (832 Esquimalt Road).
- Design will occur in second period, construction in second/third period.

16.15 Sidewalk Replacement Program

- This project sees existing sidewalks upgraded to current standards.
- Head Street (east side) from Dunsmuir Road to Wollaston Street will be constructed in the second period.

16.16 Road Capital Program

- Council approved \$50,000 for additional works on asphalt surfaces.
- Staff determining locations for Capital Road Maintenance and Project funding.
- Work to be carried out in the second/third period.

16.17 Concrete Capital Program

- Council approved \$50,000 for additional works on concrete surfaces.
- One site has been chosen to improve access and trip hazard remediation.
- Sites have been evaluated and work to be carried out in conjunction with the Colville/Hutchinson Intersection Upgrade Project in 2016.

16.18 Esquimalt Road Improvements

- Council approved funding for asphalt and concrete removal and replacement. This work will occur in the second period.
- Funding was approved for curb paint removal along with weed control. This work will occur early in the second period.

16.19 ETAG

- Work continues as required.

16.20 Esquimalt Village Project Advancement

Brown Field Remediation

- A fifth round of drilling was carried out in the first period.
- This work was carried out to assist with the delineation of contamination boundaries.
- Working with consultant to finalize remediation strategy and obtain Ministry of

Environment acceptance.

16.21 Public Works HVAC

- Work is scheduled for late second period/early third period.

16.22 Public Works Card Access System

- Work is scheduled for late second period/early third period.
- Preliminary design to start in second period.

16.23 Municipal Hall Stairwell Leak

- In the second period, work will start on preliminary scope of work and tender package.

17. Traffic Orders

- Number of traffic orders issued this period = 3 (total for the year = 3)

18. Development Applications

- Number of development applications for engineering comments this period = 9 (total for the year = 9)
- Number of building permit applications for engineering comments = 25 (total for the year = 25)

II. COMMITTEES

- No staff is appointed to sit on any Council appointed committees.