



Engineering & Public Services

Quarterly Status Report

Fourth Quarter 2005

October - December

ENGINEERING

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Approved Capital & Supplemental Projects

The current status of the approved projects is attached to this report.

Bylaws

Soil Removal & Deposit Bylaw

The revised Soil Removal and Soil Deposit Bylaw (combined in a single bylaw document) is currently with the District Solicitors for the preparation of the final draft.

Street Traffic Bylaw

Staff review of the draft Street and Traffic Bylaw is now complete and the final draft bylaw will be presented to Council with staff recommendations.

Projects

Transportation Planning Study Projects

Mt. Newton Cross Road Bike Route (Pat Bay Hwy. to East Saanich Rd.) *As the District was unsuccessful in obtaining the Cycling Infrastructure Partnership Program (CIPP) grant funding this year, the work on the Pat Bay Hwy. to Central Saanich Rd. section has been completed utilizing District funds. CIPP grant application has been submitted for consideration to complete the Central Saanich Rd. to East Saanich Rd. section, Wallace Dr/Stelly's to White Rd. and White to Hovey in 2006.*

- **Sidewalk Extension on Wallace Drive (Sluggett Rd. to Community Hall)**. *A staff report for Council consideration is under preparation listing the various options, in discussion with Parks, Planning and the majority of the stakeholders.*

- *Sidewalk works completed on Keating Cross Road – infill.*

- **Integrated Stormwater Management (ISMP) Study**

District's grant application (50% of the project cost) to undertake ISMP Study for the three watercourses (Hagan Creek, Sandhill Creek and McHugh Ditch) has been approved by the Federation of Canadian Municipalities.

Implementation of this project is budgeted for 2006 (2005-2009 Financial Plan). A consultant has been engaged to undertake preparation of terms of reference and the composition of the proposed stakeholder group.

Graham Creek

Education program near completion. Graham Creek effluent monitoring 2005 complete – presentation to Council January 23, 2005.

SCADA

All sanitary sewer lift stations are now complete with SCADA capabilities. All that remains to be completed is the "fine tuning" of the system to ensure it meets all the needs of Central Saanich.

Sewer System Modification

Spot repairs, as well as the sewer diversion on Wallace and Hagan are 100% complete. Staff are reviewing our system to identify potential projects for 2006.

West Saanich Road Traffic Corridor Revitalization

- The revised cost estimate for the watermain construction including engineering design, construction supervision fees and construction costs is \$467,450. The budget amount for this portion of the project in the 2005 Financial Plan is \$295,000.
- MOT approval in principle has been received for the proposed round-about at the West Saanich Road/Verdier Avenue intersection. The draft Memorandum of Understanding (that the District will correct any traffic problems that may occur at the round-about as a result of its installation or layout) has been forwarded to MOT for review and signature.
- Underground electrical (BC Hydro) construction revised estimate received is almost two times the initial estimate.
- First Team consultants have finalized the street light and associated design components. The known final cost estimation for all components of the project (including the costs already incurred), is now available for Council's consideration.

Saanichton Bay Erosion Protection

Final touch up to be completed in early Spring.

General Drainage Projects

- Mt. St. Michael ditch works 50% complete. To be completed in Summer 2006.
- Marin Park offer sent to property owners. Legal opinion obtained from LYA for next steps.
- Grilse Lane completed, latecomer agreement with LYA.

Drainage Quality and Quantity

Peninsula Streams sampling various locations and education flyers including site visits.

Brentwood Bay and Saanichton Bay Public Docks

The District has successfully renegotiated a contract extension with Albatross Marine to continue on with the routine maintenance and repairs to the two facilities. The next scheduled repair work is to replace the timber decking at Saanichton Bay.

Cross Connection Control

Engineering Department staff (Mike van der Linden) has been appointed to the CRD Cross Connection Control Committee. The objective of the Committee is to implement a regional standard for the prevention of cross connections. Cross connections are the potential of backflow of non-potable water into our drinking water supply system. The Committee is in the midst of preparing a regional bylaw and best practices guide for the implementation of a suitable program. The Regional Medical Health Officer has issued an order that all municipalities in the CRD commence with a regional cross-connection control program by May 2006.

Smoke Testing - \$10,000

Smoke testing completed. The testing found two homes out of 110 that had plumbing that introduced significant volumes of rain water into the sanitary sewer system. Staff are working with the home owners to correct the deficiencies.

Wallace Hagan Sewer Diversion

Existing sewers in rear yard easements are in poor condition. A new sewer main is proposed to divert the sewage on to Hagan Road. Design drawings are complete. Construction is complete.

Saanichton PRV Upgrades

Design drawings are complete. Work to proceed in early 2006.

Vehicle Equipment Maintenance

- ❖ *Police – regular servicing of the fleet and commencing research for hybrids for Community Services.*
- ❖ *Fire – provincial inspection and regular servicing of all fire equipment. Conducting pilot test of synthetic oil in work trucks.*
- ❖ *Roads / Drains – regular servicing and provincial inspections and two sanders were fitted.*
- ❖ *Parks - regular servicing of vehicles and continued cooperation with parks staff to optimize well maintained and safe equipment operation.*
- ❖ *Engineering and Inspections – regular servicing of vehicles.*
- ❖ *Strict stock control and implementation of new provincial inspection and safety code requirements.*

Roads and Drain Maintenance

- ❖ *Installed a pad and a shelter at Stelly's and East Saanich.*
- ❖ *Completed 90 meters of sidewalk installation on Keating Cross Road.*
- ❖ *Completed 5.3 kilometers of agricultural ditching, including Maber flats, Martindale ditch and the Hagan Creek bail hole.*
- ❖ *Cleaned one kilometer of ditch and pressure washed all the guard rails.*
- ❖ *Completed drainage strengthening on Clarke Road .(driveway replacement and landscaping)*
- ❖ *Cleaned 2500 culvert ends and flushed any culverts that needed clearing.*
- ❖ *Reviewed storm main videos to access the status of the system.*
- ❖ *Responded to six spill incidents.*

- ❖ *Staff worked on litter collection for 450 hours.*
- ❖ *Completed 10.5 kilometers of road crack sealing.*
- ❖ *Cleaned the catch basins in the three core areas (Brentwood, Saanichton and Keating).*
- ❖ *Completed 140 hours of street sweeping.*
- ❖ *Washed and inspected regulatory signs within the District.*
- ❖ *Installed 90 meters of storm main on Grilse Lane.*
- ❖ *Responded to one small snow event and five icy road events.*
- ❖ *Continued to respond to the public's requests.*

Water and Sewer Maintenance

- ❖ *Completed the third of three annual meter readings.*
- ❖ *Completed the annual hydrant maintenance program.*
- ❖ *Inspected the Saanich Peninsula Hospital connection.*
- ❖ *Repaired seven water ruptures.*
- ❖ *Performed maintenance on the pressure reducing valve stations and also painted two stations.*
- ❖ *Completed the Wallace and Hagan sewer diversion.*
- ❖ *Painted three sanitary sewer stations (in and out).*
- ❖ *Suction cleaned all the sewer stations.*
- ❖ *Repaired the discharge manifold at the Hagan pump station.*
- ❖ *Installed four new services and cleared a major sewer blockage on Sea Drive.*
- ❖ *Reviewed the video inspection data to determine flushing and repair needs.*

Workplace Safety and Risk Management

In order to comply with Workers' Compensation Board (WCB) Regulations and limit the District's liabilities, the following steps were taken:

Weekly General Safety Meetings and Monthly Safety Committee Meetings were held at the Public Works Yard.

- ❖ *Ensured the completion of quarterly inspections:*
 - i. First Aid Kits.*
 - ii. Eye wash stations, and*
 - iii. Emergency Lights.*
- ❖ *Provided training/clinics for the following issues:*
 - i. Crane Safety*
 - ii Rigging Safety*
 - iii Supervisor Safety Management*
- ❖ *Maintained storage of Safety & First Aid Supplies.*

Parks Maintenance

- ❖ *Performed routine Parks tasks such as litter collection and trail maintenance within the Parks System.*
- ❖ *Performed grass cutting within our Community, Neighbourhood and Nature Parks into early November.*
- ❖ *Planted over 7,000 bulbs in community parks and winter annuals within the parks system.*
- ❖ *Youth court was installed at Saanichton Green as well as drainage and tree planting. The Pioneer Museum landscaping and irrigation were installed.*
- ❖ *Fall field maintenance completed at Centennial Park.*
- ❖ *Installed the Clarke Road dedication bench.*

- ❖ *Tree management is underway and we assist other departments with tree related issue.*
- ❖ *Monthly Park and Playground inspections completed.*
- ❖ *Winterized all irrigation systems and equipment for the season.*
- ❖ *Updated current irrigation design records for 2005.*
- ❖ *Routine replacement of garbage cans and mounting system as well as installing bollards.*
- ❖ *Passive park trail maintenance is underway on the south end of the Malcolm Trail.*
- ❖ *Replacement of standard parks signage.*
- ❖ *De-iced and sanded all Municipal facilities and parking lots.*

Public Services

- ❖ *Fuel Tanks:*
 - i. Monitored tanks on a weekly basis to ensure that the tanks are not leaking, and*
 - ii. Physically inventoried tanks on a monthly basis to ensure that there is not any fuel loss.*
- ❖ *Processed 12 street light maintenance requests.*
- ❖ *Completed the annual survey of all Municipal and Hydro streetlights (700 total).*
- ❖ *Processed 121 Requests for Service.*
- ❖ *Completed updates on the Central Saanich bulletin board for Public Works and ensured that the appropriate advertisements were placed in the paper notifying residents of the snow removal policy.*
- ❖ *The mosquito abatement program and West Nile Virus initiative reports were received.*
- ❖ *Completed Yard inventory and inspections on winches; hoists; tanks; cranes and pumps.*

Public Works
Environmental Initiatives

- ❖ *Scraping out the grass and debris from sidewalks seems to prevent growth and reduce the need to use herbicides.*
- ❖ *Wood products are no longer burned at the Works Yard, they are sent for grinding and the byproduct is recycled.*
- ❖ *Dirty water from the sweeper is de-watered down the sanitary system to protect the ecosystem.*
- ❖ *All organic waste products are composted and produce topsoil for Public Works projects.*
- ❖ *All asphalt and concrete construction waste is returned to the production plant for recycling.*
- ❖ *Ongoing survey of the hybrid Honda Civic for the Police.*

Nirmal Bhattacharya, P. Eng.
Municipal Engineer

January 30, 2006