
**REPORT TO CORE AREA LIQUID WASTE MANAGEMENT COMMITTEE
MEETING OF WEDNESDAY, 24 MAY 2006**

SUBJECT **NORTHWEST TRUNK SEWER – MACAULAY POINT PUMP STATION STANDBY GENERATOR**

PURPOSE

To seek approval for the installation of a standby generator at Macaulay Point pump station.

BACKGROUND

Chapter 16 of the approved Core Area Liquid Waste Management Plan contains a list of proposed improvements to the Capital Regional District's core area trunk sewerage system.

Item 1.11A of those improvements is for the provision of standby power at Macaulay Point pump station (Macaulay Point).

In an information report to the committee in November 2005 (report EOP 05-117), staff reported on the status of standby generators at the various core area sewage pump stations. It was reported that six pump stations have overflows to marine outfalls, of which only Macaulay Point lacks standby power.

The report advised that staff would be submitting a proposal to install a diesel generator at this pump station.

ALTERNATIVES

In the event of a power failure at Macaulay Point (there is about one a year), sewage cannot be pumped through the long ocean outfall and instead, it discharges unscreened through the near-shore emergency outfall.

Without the standby generator, this situation will continue.

FINANCIAL IMPLICATIONS

The estimated cost for the work is \$950,000.

In accordance with Bylaw 2312, cost sharing among participating municipalities would be as shown in Appendix A.

Staff recently presented to the committee a proposal to amend Bylaw 2312 by substituting "design capacity benefit" for "design capacity" for cost-sharing purposes. The costs shown in Appendix A are the same for either allocation method and, therefore, are not impacted by the proposal to amend Bylaw 2312.

Some municipalities have sufficient funds available in the trunk sewer reserve fund to fund their share of this work, while others would fund a portion of their share through borrowing as indicated in Appendix A.

SUMMARY/CONCLUSIONS

A standby generator is proposed for Macaulay Point pump station to power two pumps and the SCADA monitoring/alarm system in the event of a power failure, thereby ensuring that pumped screened sewage is discharged through the long ocean outfall during BC Hydro power outages.

RECOMMENDATIONS

That the Core Area Liquid Waste Management committee recommend to the Board that:

1. staff be authorized to design and tender the installation of a standby generator for Macaulay Point pump station;
2. costs be shared as per Appendix A; and
3. a loan authorization bylaw in the amount of \$196,790 be presented to the Board for approval.

Jerry McIntosh, PEng
Director, Hartland and Core Area Engineering

Dwayne Kalynchuk, PEng
General Manager, Environmental Services
Concurrence

Kelly Daniels
CAO Concurrence

COMMENTS

JMcl:jt
Attachment: 1

**APPENDIX A
MACAULAY POINT PUMP STATION
STANDBY GENERATOR
APPORTIONMENT OF CAPITAL COST**

Municipality / Band	Proportional Share of Cost	Share of Estimated Cost	Source of Funds		Annual Debt Servicing per \$100,000 Residential Assessment
			Trunk Sewer Reserve	Loan Authorization	
Saanich	31.38%	\$298,110	\$298,110	--	--
Victoria	24.26%	230,470	230,470	--	--
Esquimalt and DND	25.16%	239,020	144,000	\$95,020	\$1.00
Langford	7.08%	67,260	6,000	61,260	0.89
Colwood	6.58%	62,510	22,000	40,510	0.98
View Royal	4.51%	42,845	42,845	--	--
Songhees IR	0.74%	7,030	on hand	--	--
Esquimalt IR	0.29%	2,755	on hand	--	--
		\$950,000		\$196,790	