

ALTERNATIVES	A1	Pelletization	
	A2	Thermal oxidation	
	A3	Composting	
	A4	Landfilling	= sludge treatment in SEWPCC for SEWPCC sludge
	A5	Land application	= current sludge management : all treatment in NEWPCC

For all alternatives

Sludge disposal : landfill on Brady Road

ASSUMPTIONS											
Global sludge production											
Sludge production in NEWPCC		13,000 Dry Tons/y @ 25 % concentration									
Volume of sludge for disposal after treatment		52,000 m3/y									
Raw sludge production											
Volume of sludges hauled from SE to NE :		15 Truck/d	5 d/week	30 m3/truck	117,321 m3/y	36%	Sludges @ 4 % concentration		4,693 DryT/y	36%	
Volume of sludges hauled from WE to NE :		7 Truck/d	5 d/week	30 m3/truck	54,750 m3/y	17%			2,190 DryT/y	17%	
Volume of sludge generated by NEWPCC :					152,929 m3/y	47%			6,117 DryT/y	47%	
					325,000 m3/y				13,000 DryT/y		
2010 OPEX cost											
2010	OPEX price composed of the following costs :		Treatment OPEX								
			Hauling from SEWPCC to NEWPCC								
			Hauling from WEWPCC to NEWPCC								
			Hauling from NEWPCC to Road Brady landfill								
			Landfill tipping fees								
	OPEX for sludge treatment in NEWPCC		1.70 M CAD/y			Unit rates					
	Hauling SEWPCC sludges to NEWPCC		0.51 M CAD/y			Hauling SEWPCC -> NEWPCC		130 \$/truck			
	Hauling WEWPCC sludges to NEWPCC		0.16 M CAD/y			Hauling WEWPCC -> NEWPCC		87 \$/truck			
	Disposal transportation NE to landfill		0.23 M CAD/y			Hauling WEWPCC -> SEWPCC		43 \$/truck			
	Landfill tipping fees :		0.25 M CAD/y (constant price)								
TOTAL OPEX		2.84 M CAD/y			Among which 1.29 M CAD/y for SEWPCC						