

SEWPCC - Opinion of Probable Cost for Plant Expansion - Option G (IFAS)

Item	Description	Option G - CDR 2008	Updated Option G - 2010	Option G-1 2010	Option G-2 2010
1.0	General Requirements	\$10,430,000	\$10,550,000	\$11,220,000	\$12,140,000
2.0	Siteworks	\$7,930,000	\$2,910,000	\$2,910,000	\$2,910,000
3.0	Effluent Sampling Station	\$590,000	\$0	\$0	\$0
4.0	Hauled Liquid Waste Receiving Station (Under Separate Contract)	\$0	\$0	\$0	\$0
5.0	Headworks	\$7,221,000	\$7,650,000	\$7,650,000	\$7,650,000
6.0	Primary Clarifiers	\$660,000	\$670,000	\$670,000	\$670,000
7.0	Chemical Feed Systems (Primary Clarifiers and Bioreactors)	\$1,580,000	\$1,650,000	\$1,710,000	\$1,840,000
8.0	Bioreactors, Blower Room and Electrical Room	\$32,500,000	\$35,900,000	\$37,630,000	\$40,470,000
9.0	Secondary Clarifiers	\$20,315,000	\$21,210,000	\$25,840,000	\$31,380,000
10.0	UV Disinfection Systems	\$3,090,000	\$2,860,000	\$3,240,000	\$3,240,000
11.0	Electrical Room and DAF Polymer Feed Room	\$1,680,000	\$1,770,000	\$1,770,000	\$1,770,000
12.0	Odor Control	\$3,860,000	\$4,180,000	\$4,180,000	\$4,180,000
13.0	Solids Handling (DAF)	\$4,960,000	\$5,420,000	\$5,420,000	\$5,420,000
14.0	Fermenters and Adjacent Building	\$4,970,000	\$5,190,000	\$5,190,000	\$5,190,000
15.0	Sludge Holding Tanks and Storage Building	\$4,850,000	\$5,140,000	\$5,140,000	\$5,140,000
16.0	Electrical, Control, Instrumentation	\$18,520,000	\$19,460,000	\$19,900,000	\$21,560,000
17.0	Standby Emergency Power Upgrade	\$2,370,000	\$2,490,000	\$2,610,000	\$2,740,000
18.0	Ancillary Items (Permits)	\$760,000	\$760,000	\$760,000	\$760,000
	Subtotal	\$126,290,000	\$127,810,000	\$135,840,000	\$147,060,000
	Contingencies (10% of Subtotal)	\$12,629,000	\$12,781,000	\$13,584,000	\$14,706,000
	Engineering (15% of Subtotal & Contingencies)	\$20,838,000	\$21,089,000	\$22,414,000	\$24,265,000
	Estimating Allowance (15% of Subtotal, Cont. & Eng.)	\$23,964,000	\$24,252,000	\$25,776,000	\$27,905,000
	Inflation Allowance: 15% for 2008 CDR (for 2009 -2012 Construction Period) and 9% for the rest of the options	\$27,558,000	\$16,734,000	\$17,785,000	\$19,254,000
	Total	\$211,279,000	\$202,666,000	\$215,399,000	\$233,190,000

Items That Could Be Deferred (Included In Overall Cost Opinion)

Item	Description	Option G - CDR 2008	Updated Option G - 2010	Option G-1 2010	Option G-2 2010
5.0	Headworks - Admin Bldg. Renovation Only (Possible Deferral or Deletion)	\$1,033,000	\$0	\$0	\$0
5.0	Headworks - Raw Water Pump Upgrades and Wet Well Grit Pump Upgrades	\$1,693,000	\$0	\$0	\$0
9.0	Secondary Clarifiers - Cost saving If FST-5 Construction Is Deferred	\$19,986,000	\$0	\$0	\$0

Secondary Clarifier Cost Provided Construction of FST-4 and FST-5 Is Phased

Item	Description	Option G - CDR 2008	Updated Option G - 2010	Option G-1 2010	Option G-2 2010
9.0	Secondary Clarifiers - Price To Construct FST-4 (Including FST-1, 2 & 3 Rerofits) With FST-5 Deferred	\$23,727,000	\$0	\$0	\$0
9.0	Secondary Clarifiers - Price To Construct FST-5 Not In Conjunction With FST-4 (At Some Later Time)	\$23,081,000	\$0	\$0	\$0

Items That Could Be Deleted (Included In Overall Cost Opinion)

Item	Description	Option G - CDR 2008	Updated Option G - 2010	Option G-1 2010	Option G-2 2010
8.0	Bioreactors - Bioreactor Covers	\$2,862,000	\$0	\$0	\$0

Optional Items (Not Included In Overall Cost Opinion)

Item	Description	Option G - CDR 2008	Updated Option G - 2010	Option G-1 2010	Option G-2 2010
6.0	Primary Clarifiers - Modify PC#1 and 2 Scum Collection	\$1,158,000	\$0	\$0	\$0
19.0	Connect UV to Secondary Clarifiers Underground Walkway	\$1,056,000	\$0	\$0	\$0
20.0	Miscellaneous Items - PSA Salvage, Fall Arrest, Confined Space Equipment	\$1,109,000	\$0	\$0	\$0

¹ The cost basis is November, 2010.

² The Opinion of Probable Costs Table was updated November 25, 2010 to bring the Inflation Allowance in line with current predictions and adjusts for the infrastructure completed to date (sampling station, outfall twinning etc.)

³ Costs are in 2010 Canadian Dollars (except for CDR 2008)

⁴ Construction costs will vary depending on market conditions at the time of tender. Stantec has no control over those conditions.

⁵ For possible deferred, deleted or optional work, the numbers shown include the contingency, engineering, estimating and inflation allowances. Depending on when items are deferred or deleted, some allowance for engineering may be applicable.