

**COMBINED REGIONAL DISTRICTS**  
**WASTE MANAGEMENT SERVICES WITHH CENTRAL COMPOSTING**  
**2004 Dollars**

	Incremental Central	
	Baseline	Compostin Combined
<b>REVENUE</b>		
Tipping Fees	1,869,033	415,000 2,284,033
Product Sales		133,600 133,600
Property tax, taxes in leau	1,611,301	1,611,301
Miscellaneous Revenue	295,535	295,535
Capital Fund, Reserve, Surplus	380,762	380,762
	4,156,631	548,600 4,705,231
<b>EXPENDITURE</b>		
Administrative & Operating	3,281,503	671,100 3,952,603
Closure Contributions	38,314	38,314
Debt & Interest	412,437	409,100 821,537
	3,732,254	1,080,200 4,812,454
Excess(Deficiency) of Revenue over Expenditure Before Adjustments:	424,377	-107,223
Incremental Collection Costs		30,440 30,440
Reduced Closure Provision Requirements		-108,900 -108,900
Increased Tipping Fees/Property Tax		-118,800 -118,800
	0	-197,260 -197,260
Net Excess(Deficiency) of Revenue over Expenditure	424,377	90,037
Decrease in "net income" due to central composting		334,340

**Summary of Alternatives**

**Central Composting:**

	NPV of Cash Flows	Payback (years)
Central Composting (Castlegar/Nelson/Trail)		
China Creek	\$80,283	35.7
Columbia Gardens	-\$28,102	
Regional Districts Only	-\$89,893	
Celgar Only	-\$131,395	

**Sensitivity analysis:**

(Based on China Creek, all in)

<b>Impact of Feedstock drop per 1,000 tonnes:</b>	NPV	Payback
Base	80,283	35.7
Grade A (Celgar)	-10,727	
Grade A (Hog Fuel)	50,107	58.5
Grade B: (Yard & Garden)	98,551	30.4

*The Hog Fuel & Y & G scenarios improve because the cost of processing is greater than the tipping fees*

<b>Impact of grant financing for 50%:</b>	\$2,010,807	1.6
(Compare with base of \$80,283)		

**Central Composting - Impact on Closure Costs**

	RDCK				RDKB		
	Creston	Nakusp	Ootischenia	Canex	Greenwood	McKelvey	Grand Forks
<b>Lifespan:</b>							
Remaining Lifespan (years)	198	19	15	50	40	77	100
Years Extended	113	31	22	20	65	79	39
<b>Estimated Closure Fee</b>	2,090,000	1,560,000	3,750,000	1,500,000	1,200,000	2,310,000	1,800,000
<b>Closure Fee with Central Compost Facility (Diverted Organics)</b>	1,250,000	780,000	1,880,000	750,000	600,000	1,160,000	900,000

1 Closure cost for landfills estimated at \$30/m2 without organics diversion except for Creston estimated at \$25m2 due to existing impermeable clay layer

2 Closure costs for landfills estimated at \$15/m2 once organics diverted as this reduces the need for impermeable cover

3 Based on 20 year monitoring requirement

**Capital Costs (Closure Fee), NPV - Current investement required to meet future obligations at 6% :**

Status Quo (as is - without central composting)	20	515,600	1,564,744	81,433	116,667	26,005	5,305
With Central Composting (diverted organics)	0	42,345	217,691	12,696	1,321	131	273
<b>Savings in 2004 dollars</b>	<b>20</b>	<b>473,255</b>	<b>1,347,053</b>	<b>68,737</b>	<b>115,345</b>	<b>25,874</b>	<b>5,032</b>