

Appendix C
Alternative A - Financial Cost Analysis
High Use (75%) Scenario

	Capital Costs	Operating and Maintenance Costs
Year 0		
Pilot Studies - Phase I	500,000	37,500
Year 5		
Pilot Studies - Phase II	29,500,000	2,212,500
North District	14,208,442	975,960
Central District	-	-
South District	260,362,998	21,017,649
Year 10		
North District	235,478,027	18,923,212
Central District	79,803,700	2,906,056
South District	319,852,908	33,155,696
Year 15		
North District	212,594,640	21,811,806
Central District	481,089,960	43,114,422
South District	-	-
Year 20		
North District	-	-
Central District	252,434,083	23,003,561
South District	80,080,255	9,132,467
Subtotal 75%	1,965,905,013	176,290,828
Contingency (25%)	491,476,253	44,072,707
Engineering, Planning, Legal Administration (20%)	393,181,003	35,258,166
TOTAL 75%	2,850,562,269	255,621,700
Year 10		
Possible Disposal Savings from Baseline	(950,400)	(178,200)
Contingency (25%)	(237,600)	(44,550)
Engineering, Planning, Legal Administration (20%)	(190,080)	(35,640)
Total Possible Savings	(1,378,080)	(258,390)
TOTAL INCLUDING SVGS.	\$ 2,849,184,189	\$ 255,363,310

Appendix C
Alternative B - Financial Cost Analysis
Medium Use (50%) Scenario

	Capital Costs	Operating and Maintenance Costs
Year 0		
Pilot Studies - Phase I	500,000	37,500
Year 5		
Pilot Studies - Phase II	29,500,000	2,212,500
North District	6,899,466	351,502
Central District	-	-
South District	65,914,458	815,470
Year 10		
North District	37,466,576	1,494,716
Central District	144,370,579	2,534,011
South District	386,126,148	36,409,728
Year 15		
North District	-	-
Central District	452,610,698	40,563,205
South District	-	-
Year 20		
North District	-	-
Central District	184,748,810	16,499,558
South District	-	-
Subtotal 50%	1,308,136,735	100,918,189
Contingency (25%)	327,034,184	25,229,547
Engineering, Planning, Legal Administration (20%)	261,627,347	20,183,638
TOTAL 50%	1,896,798,265	146,331,374
Year 10		
Possible Disposal Savings from Baseline	(8,841,600)	(1,657,800)
Contingency (25%)	(2,210,400)	(414,450)
Engineering, Planning, Legal Administration (20%)	(1,768,320)	(331,560)
Total Possible Savings	(12,820,320)	(2,403,810)
TOTAL INCLUDING SVGS.	\$ 1,883,977,945	\$ 143,927,564

Appendix C
Alternative C - Financial Cost Analysis
Low Use (25%) Scenario

	Capital Costs	Operating and Maintenance Costs
Year 0		
Pilot Studies - Phase I	500,000	37,500
Year 5		
Pilot Studies - Phase II	29,500,000	2,212,500
North District	6,473,966	329,152
Central District	42,076,340	3,668,349
South District	69,361,298	1,127,698
Year 10		
North District	42,421,880	3,374,353
Central District	13,285,310	855,169
South District	408,597,528	41,756,107
Year 15		
North District	-	-
Central District	-	-
South District	-	-
Year 20		
North District	-	-
Central District	-	-
South District	-	-
Subtotal 25%	612,216,322	53,360,828
Contingency (25%)	153,054,081	13,340,207
Engineering, Planning, Legal Administration (20%)	122,443,264	10,672,166
TOTAL 25%	887,713,667	77,373,201
Year 10		
Possible Disposal Savings from Baseline	(9,816,000)	(1,840,500)
Contingency (25%)	(2,454,000)	(460,125)
Engineering, Planning, Legal Administration (20%)	(1,963,200)	(368,100)
Total Possible Savings	(14,233,200)	(2,668,725)
TOTAL INCLUDING SVGS.	\$ 873,480,467	\$ 74,704,476

Appendix C
Alternative D - Financial Cost Analysis
No Action Scenario

		Capital Costs	Operating and Maintenance Costs
	Year 5		
Systemwide		97,755,542	5,181,044
North District		3,992,788	211,618
Central District		23,164,137	1,227,699
South District		361,162,985	19,141,638
	Year 10		
Systemwide		289,732,509	15,355,823
North District		28,236,397	1,496,529
Central District		165,015,066	8,745,798
South District		140,411,035	7,441,785
	Year 15		
Systemwide		57,931,035	3,070,345
North District		-	-
Central District		-	-
South District		-	-
	Year 20		
Systemwide		57,931,035	3,070,345
North District		-	-
Central District		-	-
South District		-	-
Subtotal No Action (Baseline)		<u>1,225,332,529</u>	<u>64,942,624</u>
Contingency (25%)		306,333,132	16,235,656
Engineering, Planning, Legal Administration (20%)		245,066,506	12,988,525
TOTAL NO ACTION		<u>1,776,732,167</u>	<u>94,166,805</u>
	Year 10		
Additional Costs of Disposal			
North District		61,280,000	3,247,840
Central District		62,880,000	3,332,640
Subtotal - Additional Cost for Disposal		<u>124,160,000</u>	<u>6,580,480</u>
Contingency (25%)		31,040,000	1,645,120
Engineering, Planning, Legal Administration (20%)		24,832,000	1,316,096
Total Possible Costs		<u>180,032,000</u>	<u>9,541,696</u>
TOTAL INCLUDING DISPOSAL COSTS	\$	<u>1,956,764,167</u>	<u>\$ 103,708,501</u>

Appendix C
Alternative E - Financial Cost Analysis
Reformulated Alternative

	Capital Costs	Operating and Maintenance Costs
Year 0		
Pilot Studies - Phase I	500,000	37,500
Year 5		
Pilot Studies - Phase II	29,500,000	2,212,500
North District	15,640,704	833,691
Central District	8,927,645	680,404
South District	208,321,430	17,240,285
Year 10		
North District	-	-
Central District	-	-
South District	-	-
Year 15		
North District	-	-
Central District	-	-
South District	240,956,200	22,396,649
Year 20		
North District	-	-
Central District	-	-
South District	151,189,300	14,899,043
Subtotal - Alternative E	655,035,279	58,300,072
Contingency (25%)	163,758,820	14,575,018
Engineering, Planning, Legal Administration (20%)	131,007,056	11,660,014
TOTAL ALTERNATIVE E	949,801,155	84,535,104
Possible Disposal Savings from Baseline	(5,904,475)	(531,403)
Contingency (25%)	(1,476,119)	(132,851)
Engineering, Planning, Legal Administration (20%)	(1,180,895)	(106,281)
Total Possible Savings	(8,561,489)	(770,534)
TOTAL INCLUDING SVGS.	\$ 941,239,666	\$ 83,764,570