

SBWMA Environmental Goals: “Triple-Zero”

1

Zero
Organics to
Landfill

2

Zero
Recyclables
to Landfill

3

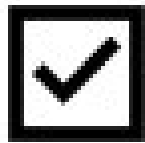
Zero
Net GHG in
Operations

*Net-Zero defined by CARB, facility with direct emissions
being offset by avoided emissions.*

Net-Zero equation (operational GHG – avoided GHG = 0)



O2E Project



Technically Feasibility



Financial Feasibility

○ Benefits Reduced GHG / Green Energy

Rev. Slurry Production: 3-loads per day, Tip Fee: \$0 per ton

SSO Tons Infeed	18,792	
Tons Slurry Shipped	14,094	75%
Tons Residue to Landfill	4,698	25%

O2E PILOT FINANCIAL SUMMARY		
CAPEX	\$/yr.	\$/Ton
OREX 500 Pilot CAPEX	\$ 125,000.00	
Contingency	\$ -	
Subtotal	\$ (125,000)	\$ (6.65)
OPEX	\$/Yr.	\$/Ton
Transport & Disposal		
Transport residuals to landfill	\$ 16.13	\$ 75,779
Tip fee residuals at landfill	\$ 53.64	\$ 252,001
Transport of slurry to WWTP	\$	\$ 314,408
Tip fee for slurry at WWTP	\$ -	
Subtotal	\$ (642,187)	\$ (34.17)
Processing Operations		
Direct Labor	\$ 531,851	
Fuel & Power	\$ 174,834	
Other O&M Expense	\$ 110,864	
Subtotal	\$ (817,549)	\$ (43.51)
Total Expenses O2E	\$/Yr.	\$/Ton
	\$ (1,584,736)	\$ (84.33)
AVOIDED COST OF TRANSPORTATION & COMPOSTING		
Avoided SSO transportation cost	\$ 37.16	\$ 698,311
Avoided SSO tip fee cost	\$ 85.00	\$ 1,597,320
Subtotal	\$ 2,295,631	\$ 122.16
NET BENEFIT/(COST) OF PILOT PROJECT	\$/Yr.	\$/Ton
	\$ 710,894	\$ 37.83

Rev. Slurry Production: 4-loads per day, WWTP tip Fee at \$0 per ton

SSO Tons Infeed	25,056	
Tons Slurry Shipped	18,792	75%
Tons Residue to Landfill	6,264	25%

O2E PILOT FINANCIAL SUMMARY		
CAPEX	\$/yr.	\$/Ton
OREX 500 Pilot CAPEX	\$ 125,000.00	
Contingency	\$ -	
Subtotal	\$ (125,000)	\$ (4.99)
OPEX	\$/Yr.	\$/Ton
Transport & Disposal		
Transport residuals to landfill	\$ 16.13	\$ 101,038
Tip fee residuals at landfill	\$ 53.64	\$ 336,001
Transport of slurry to WWTP	\$	\$ 440,598
Tip fee for slurry at WWTP	\$ -	
Subtotal	\$ (877,637)	\$ (35.03)
Processing Operations		
Direct Labor	\$ 531,851	
Fuel & Power	\$ 174,834	
Other O&M Expense	\$ 110,864	
Subtotal	\$ (817,549)	\$ (32.63)
Total Expenses O2E	\$/Yr.	\$/Ton
	\$ (1,820,186)	\$ (72.64)
AVOIDED COST OF TRANSPORTATION & COMPOSTING		
Avoided SSO transportation cost	\$ 37.16	\$ 931,081
Avoided SSO tip fee cost	\$ 85.00	\$ 2,129,760
Subtotal	\$ 3,060,841	\$ 122.16
NET BENEFIT/(COST) OF PILOT PROJECT	\$/Yr.	\$/Ton
	\$ 1,240,655	\$ 49.52

Rev. Slurry Production: 4-loads per day, break-even w composting at \$66 per ton

SSO Tons Infeed	25,056	
Tons Slurry Shipped	18,792	75%
Tons Residue to Landfill	6,264	25%

O2E PILOT FINANCIAL SUMMARY		
CAPEX	\$/yr.	\$/Ton
OREX 500 Pilot CAPEX	\$ 125,000.00	
Contingency	\$ -	
Subtotal	\$ (125,000)	\$ (4.99)
OPEX	\$/Yr.	\$/Ton
Transport & Disposal		
Transport residuals to landfill	\$ 16.13	\$ 101,038
Tip fee residuals at landfill	\$ 53.64	\$ 336,001
Transport of slurry to WWTP	\$	\$ 440,598
Tip fee for slurry at WWTP	\$ 66.00	\$ 1,240,272
Subtotal	\$ (2,117,909)	\$ (84.53)
Processing Operations		
Direct Labor	\$ 531,851	
Fuel & Power	\$ 174,834	
Other O&M Expense	\$ 110,864	
Subtotal	\$ (817,549)	\$ (32.63)
Total Expenses O2E	\$/Yr.	\$/Ton
	\$ (3,060,458)	\$ (122.14)
AVOIDED COST OF TRANSPORTATION & COMPOSTING		
Avoided SSO transportation cost	\$ 37.16	\$ 931,081
Avoided SSO tip fee cost	\$ 85.00	\$ 2,129,760
Subtotal	\$ 3,060,841	\$ 122.16
NET BENEFIT/(COST) OF PILOT PROJECT	\$/Yr.	\$/Ton
	\$ 383	\$ 0.02