

APPENDIX 'D'

**Preferred Concept Design Opinion of
Probable Capital Costs**



Phase Size 1000 units

Phase	Max # Units	New Development Units
1	1000	602
2	2000	1295
3	3000	2295
4	3996	3291

Opinion of Probable Capital Costs - Community of Everett WWTP Class EA Preferred Concept Design - Breakdown By Phase						
Item	Description	Full Build	Ph.1	Ph.2	Ph.3	Ph.4
1.0	Treatment Facility Equipment	Treatment Facility Equipment				
1.1	Headworks	\$ 3,000,000.00	\$ 1,500,000.00	\$ -	\$ 1,500,000.00	\$ -
	Subtotal - Secondary Treatment	\$ 3,000,000.00	\$ 1,500,000.00	\$ -	\$ 1,500,000.00	\$ -
	<i>Property Owner Costs (Per Residential Unit)</i>		<i>\$ 1,500.00</i>	<i>\$ -</i>	<i>\$ 500.00</i>	<i>\$ -</i>
	<i>Developer Costs (Per Development Unit)</i>		<i>\$ 2,492.55</i>	<i>\$ -</i>	<i>\$ 653.70</i>	<i>\$ -</i>
2.0	Secondary Treatment	Secondary Treatment				
2.1	Aeration Tanks	\$ 881,184.00	\$ 220,296.00	\$ 220,296.00	\$ 220,296.00	\$ 220,296.00
2.2	Aeration Tank Equipment	\$ 2,800,991.55	\$ 700,247.89	\$ 700,247.89	\$ 700,247.89	\$ 700,247.89
2.3	Membrane Equipment	\$ 3,900,000.00	\$ 975,000.00	\$ 975,000.00	\$ 975,000.00	\$ 975,000.00
2.4	UV Equipment	\$ 1,000,000.00	\$ 250,000.00	\$ 250,000.00	\$ 250,000.00	\$ 250,000.00
2.5	Electrical Allowance	\$ 1,164,118.99	\$ 291,029.75	\$ 291,029.75	\$ 291,029.75	\$ 291,029.75
2.6	I&C Allowance	\$ 291,029.75	\$ 72,757.44	\$ 72,757.44	\$ 72,757.44	\$ 72,757.44
2.7	Architectural Allowance	\$ 17,623.68	\$ 8,811.84	\$ -	\$ 8,811.84	\$ -
	Subtotal - Secondary Treatment	\$ 10,054,947.96	\$ 2,518,142.91	\$ 2,509,331.07	\$ 2,518,142.91	\$ 2,509,331.07
	<i>Property Owner Costs (Per Residential Unit)</i>		<i>\$ 2,518.14</i>	<i>\$ 1,254.67</i>	<i>\$ 839.38</i>	<i>\$ 627.96</i>
	<i>Developer Costs (Per Development Unit)</i>		<i>\$ 4,184.40</i>	<i>\$ 1,938.25</i>	<i>\$ 1,097.40</i>	<i>\$ 762.57</i>
3.0	Site Works, Materials & Internal Piping	Site Works, Materials & External Piping				
3.1	Admin Building	\$ 1,000,000.00	\$ 1,000,000.00	\$ -	\$ -	\$ -
3.2	Membrane Equipment Building	\$ 480,000.00	\$ 240,000.00	\$ -	\$ 240,000.00	\$ -
3.3	Instrumentation	\$ 676,747.40	\$ 169,186.85	\$ 169,186.85	\$ 169,186.85	\$ 169,186.85
3.4	Electrical	\$ 1,353,494.80	\$ 338,373.70	\$ 338,373.70	\$ 338,373.70	\$ 338,373.70
3.5	Site Works	\$ 676,747.40	\$ 507,560.55	\$ -	\$ 169,186.85	\$ -
	Subtotal - Material Costs	\$ 4,186,989.59	\$ 2,255,121.10	\$ 507,560.55	\$ 916,747.40	\$ 507,560.55
	<i>Property Owner Costs (Per Residential Unit)</i>		<i>\$ 2,255.12</i>	<i>\$ 253.78</i>	<i>\$ 305.58</i>	<i>\$ 127.02</i>
	<i>Developer Costs (Per Development Unit)</i>		<i>\$ 3,747.33</i>	<i>\$ 392.05</i>	<i>\$ 399.52</i>	<i>\$ 154.24</i>
4.0	WWTP Engineering/Contingency	WWTP Engineering/Contingency				
4.1	Engineering Services	\$ 1,299,000.00	\$ 779,400.00	\$ 129,900.00	\$ 259,800.00	\$ 129,900.00
4.2	Services during construction	\$ 1,137,000.00	\$ 682,200.00	\$ 113,700.00	\$ 227,400.00	\$ 113,700.00
4.3	Construction Costs	\$ 9,094,000.00	\$ 5,456,400.00	\$ 909,400.00	\$ 1,818,800.00	\$ 909,400.00
	Subtotal - Engineering/Contingency Costs	\$ 11,530,000.00	\$ 6,918,000.00	\$ 1,153,000.00	\$ 2,306,000.00	\$ 1,153,000.00
	<i>Property Owner Costs (Per Residential Unit)</i>		<i>\$ 6,918.00</i>	<i>\$ 576.50</i>	<i>\$ 768.67</i>	<i>\$ 288.54</i>
	<i>Developer Costs (Per Development Unit)</i>		<i>\$ 11,495.64</i>	<i>\$ 890.60</i>	<i>\$ 1,004.95</i>	<i>\$ 350.39</i>
		\$ 28,771,937.56	\$ 13,191,264.01	\$ 4,169,891.62	\$ 7,240,890.31	\$ 4,169,891.62
	<i>Total Property Owner Costs (Per Eq. Residential Unit)</i>	<i>\$ 7,200.18</i>	<i>\$ 13,191.26</i>	<i>\$ 4,169.89</i>	<i>\$ 7,240.89</i>	<i>\$ 4,186.64</i>
	<i>Total Developer Costs (Per Eq. New Residential Unit)</i>	<i>\$ 8,743.57</i>	<i>\$ 21,919.91</i>	<i>\$ 6,018.49</i>	<i>\$ 7,240.89</i>	<i>\$ 4,186.64</i>

Item	Description	Unit	Estimated Quantity	Unit Price (\$)	Total Amount (\$)
5.0	Forcemain Alignment Costs - Twinned				
5.1	Sanitary Effluent Forcemain (Single)	l.m.	2,650.00	\$156.00	\$413,400.00
5.2	Sanitary Effluent Forcemain (Twinning - Shared Trench)	l.m.	2,650.00	\$50.00	\$132,500.00
5.3	WWTP Effluent Chamber/Pump Upgrades for Surface Discharge	L.S.	1.00	\$200,000.00	\$200,000.00
5.4	Engineering & Contingency Allowance (20%)	L.S.	1.00	\$149,180.00	\$149,180.00
	SUBTOTAL - Forcemain Alignment Costs (Twinned)				\$895,080.00

Item	Description	Unit	Estimated Quantity	Unit Price (\$)	Total Amount (\$)
6.0	Forcemain Alignment Costs - Single				
6.1	Sanitary Effluent Forcemain (Single)	l.m.	2,650.00	\$156.00	\$413,400.00
6.2	WWTP Effluent Chamber/Pump Upgrades for Surface Discharge	L.S.	1.00	\$200,000.00	\$200,000.00
6.3	Engineering & Contingency Allowance (20%)	L.S.	1.00	\$122,680.00	\$122,680.00
	SUBTOTAL - Forcemain Alignment Costs (Single)				\$736,080.00