Multi-unit Property Description - Address	No. of Rateable Water Units	Net potential Savings (per Connection)	
Seven Oaks - Kāpiti Rd & Sweetman Ave	143	$56.38	$8,063.05
Metlifecare Kapiti Ltd - Guildford Drive - Entrance Henley Way	227	$68.08	$15,453.06
Summerset Villages Ltd - 104 Realm Drive	42	$11.19	$470.00
Summerset Villages Ltd - 65 Guildford Drive	75	$39.35	$2,950.90
Raumati Sands: 4 - 8 Matatua Rd	23	$48.37	$1,112.44
The Pier - Cnr Seaview Rd & Marine Pde	43	$50.18	$2,157.68
The Links: 376 - 380 Kapiti Road	28	$36.79	$1,030.00
	581		$31,237.15

Range:

$11.19 to $68.08

$53.76

Potential savings in annual water operating costs as a result of large multi-unit properties providing their own private water network

Facility: Metlifecare Kapiti Ltd - Guildford Drive - Entrance Henley Way

No of Units: 227

Table 1: Direct Water Reticulation Operating Costs for Paraparaumu/Raumati

Paraparaumu/Raumati water reticulation opex costs	200,000		
Number of Paraparaumu/Raumati water charges	13,492		
Average operating cost per Paraparaumu/Raumati water connections	**$14.82**	per water charge	**A**

Tabel 2: Depreciation on Water Reticulation Pipes in an Equivalent Residential Street with: 227 Properties

e.g. Typical Street with 227 properties	No. of Dwellings		Capital Cost	Expected Life	Annual Depreciation	Annual Depreciation per property	
	227						
Lineal metres of 20mm laterals	2270	@ $100/m	227,000	80	2837.5	$12.50	
Lineal metres of 100mm watermain	2270	@ $150/m	340,500	80	4256.25	$18.75	
Total Cost			**567,500**	**-**	**7093.75**	**$31.25**	**B**

*Note: Maintenance costs for water reticulation pipes included in average direct reticulation costs in **'A'** above*

Table 3: Water Meter Reading/Billing/Collection Costs

Total budgeted cost of water meter reading/billing/collection	250,000	
Total number of water bills	23,950	
Cost per connection	**$10.44**	**C**

Table 4: Annual Costs of Water Connections/Meters

e.g. Typical Street with 227 properties	No. of Dwellings		Capital Cost	Average Life Years	Annual Depreciation	Annual Depreciation per property	
	227						
Meter Manifold (20mm)	227	@ $600ea	136,200	50	2724	$12.00	
Water Meter (20mm)	227	@ $100ea	22,700	15	1513.33	$6.67	
Total Cost					**4237.33**	**$18.67**	**D**

Note - Assume the maintenance costs of water meters minimal as faulty water meters generally replaced which is covered by renewed budget and funded from deprecaition charge

Table 5: Less the cost of large water connection/water meters

	Estimated Capital cost of Meter Installation (incl fittings complete)	Asset Life of Meter (years)	Estimated Cost of Connection Pipework (to point of metering complete, assumed 10m)	Total Capital Cost (all complete but excl BFP)	Asset Life of Connection (Years)	Annual Depreciation (combined)	Annual Depreciation Charge per dwelling/unit	
50mm size	0	15	0	0	80	0.00	0	
100mm water meter	0	15	0	0	80	0.00	0.00	
150mm water meter	18,000	15	15,000	33,000	80	1612.50	7.10	
Total Cost	**18,000**	**-**	**15,000**	**33,000**	**-**	**1612.50**	**7.10**	**E**

Note - Assume the maintenance costs of water meters minimal as faulty water meters generally replaced which is covered by renewed budget and funded from deprecaition charge

Potential savings in annual water operating costs from large multi-occupied properties providing their own private water network

Table 6: Total Equivalent Costs per Rateable Unit

Direct reticulation operating costs	$14.82	**A**
Depreciation on water reticulation pipes	$31.25	**B**
Depreciation on water connection/water meters	$10.44	**C**
Water meter reading/billing/collection costs	$18.67	**D**
Total equivalent cost per connection	**$75.18**	
Less maintenance/depreciation on large water connections/water meters (per dwelling/unit)	-7.10	**E**
Net potential savings in water operating costs per connection from private water network	**$68.08**	

Potential savings in annual water operating costs as a result of large multi-unit properties providing their own private water network

Facility: Summerset Villages Ltd - 104 Realm Drive No of Units: 42

Table 1: Direct Water Reticulation Operating Costs for Paraparaumu/Raumati

Paraparaumu/Raumati water reticulation opex costs	200,000		
Number of Paraparaumu/Raumati water charges	13,492		
Average operating cost per Paraparaumu/Raumati water connections	**$14.82**	per water charge	**A**

Tabel 2: Depreciation on Water Reticulation Pipes in an Equivalent Residential Street with: 42 Properties

e.g. Typical Street with 42 properties	No. of Dwellings		Capital Cost	Expected Life	Annual Depreciation	Annual Depreciation per property	
	42						
Lineal metres of 20mm laterals	420	@ $100/m	42,000	80	525	$12.50	
Lineal metres of 100mm watermain	420	@ $150/m	63,000	80	787.5	$18.75	
Total Cost			**105,000**	**-**	**1312.5**	**$31.25**	**B**

*Note: Maintenance costs for water reticulation pipes included in average direct reticulation costs in **'A'** above*

Table 3: Water Meter Reading/Billing/Collection Costs

Total budgeted cost of water meter reading/billing/collection	250,000	
Total number of water bills	23,950	
Cost per connection	**$10.44**	**C**

Table 4: Annual Costs of Water Connections/Meters

e.g. Typical Street with 42 properties	No. of Dwellings		Capital Cost	Average Life Years	Annual Depreciation	Annual Depreciation per property	
	42						
Meter Manifold (20mm)	42	@ $600ea	25,200	50	504	$12.00	
Water Meter (20mm)	42	@ $100ea	4,200	15	280.00	$6.67	
Total Cost					**784.00**	**$18.67**	**D**

Note - Assume the maintenance costs of water meters minimal as faulty water meters generally replaced which is covered by renewed budget and funded from deprecaition charge

Table 5: Less the cost of large water connection/water meters

	Estimated Capital cost of Meter Installation (incl fittings complete)	Asset Life of Meter (years)	Estimated Cost of Connection Pipework (to point of metering complete, assumed 10m)	Total Capital Cost (all complete but excl BFP)	Asset Life of Connection (Years)	Annual Depreciation (combined)	Annual Depreciation Charge per dwelling/unit	
50mm size	0	15	0	0	80	0.00	0	
100mm water meter	12,000	15	10,000	22,000	80	1075.00	25.60	
150mm water meter	18,000	15	15,000	33,000	80	1612.50	38.39	
Total Cost	**30,000**	**-**	**25,000**	**55,000**	**-**	**2687.50**	**63.99**	**E**

Note - Assume the maintenance costs of water meters minimal as faulty water meters generally replaced which is covered by renewed budget and funded from deprecaition charge

Potential savings in annual water operating costs from large multi-occupied properties providing their own private water network

Table 6: Total Equivalent Costs per Rateable Unit

Direct reticulation operating costs	$14.82	**A**
Depreciation on water reticulation pipes	$31.25	**B**
Depreciation on water connection/water meters	$10.44	**C**
Water meter reading/billing/collection costs	$18.67	**D**
Total equivalent cost per connection	**$75.18**	
Less maintenance/depreciation on large water connections/water meters (per dwelling/unit)	-63.99	**E**
Net potential savings in water operating costs per connection from private water network	**$11.19**	

Potential savings in annual water operating costs as a result of large multi-unit properties providing their own private water network

Facility: Summerset Villages Ltd - 65 Guildford Drive No of Units: 75

Table 1: Direct Water Reticulation Operating Costs for Paraparaumu/Raumati

Paraparaumu/Raumati water reticulation opex costs	200,000		
Number of Paraparaumu/Raumati water charges	13,492		
Average operating cost per Paraparaumu/Raumati water connections	**$14.82**	per water charge	**A**

Tabel 2: Depreciation on Water Reticulation Pipes in an Equivalent Residential Street with: 75 Properties

e.g. Typical Street with 75 properties	No. of Dwellings		Capital Cost	Expected Life	Annual Depreciation	Annual Depreciation per property	
	75						
Lineal metres of 20mm laterals	750	@ $100/m	75,000	80	937.5	$12.50	
Lineal metres of 100mm watermain	750	@ $150/m	112,500	80	1406.25	$18.75	
Total Cost			**187,500**	**-**	**2343.75**	**$31.25**	**B**

*Note: Maintenance costs for water reticulation pipes included in average direct reticulation costs in **'A'** above*

Table 3: Water Meter Reading/Billing/Collection Costs

Total budgeted cost of water meter reading/billing/collection	250,000	
Total number of water bills	23,950	
Cost per connection	**$10.44**	**C**

Table 4: Annual Costs of Water Connections/Meters

e.g. Typical Street with 75 properties	No. of Dwellings		Capital Cost	Average Life Years	Annual Depreciation	Annual Depreciation per property	
	75						
Meter Manifold (20mm)	75	@ $600ea	45,000	50	900	$12.00	
Water Meter (20mm)	75	@ $100ea	7,500	15	500.00	$6.67	
Total Cost					**1400.00**	**$18.67**	**D**

Note - Assume the maintenance costs of water meters minimal as faulty water meters generally replaced which is covered by renewed budget and funded from deprecaition charge

Table 5: Less the cost of large water connection/water meters

	Estimated Capital cost of Meter Installation (incl fittings complete)	Asset Life of Meter (years)	Estimated Cost of Connection Pipework (to point of metering complete, assumed 10m)	Total Capital Cost (all complete but excl BFP)	Asset Life of Connection (Years)	Annual Depreciation (combined)	Annual Depreciation Charge per dwelling/unit	
50mm size	0	15	0	0	80	0.00	0	
100mm water meter	12,000	15	10,000	22,000	80	1075.00	14.33	
150mm water meter	18,000	15	15,000	33,000	80	1612.50	21.50	
Total Cost	**30,000**	**-**	**25,000**	**55,000**	**-**	**2687.50**	**35.83**	**E**

Note - Assume the maintenance costs of water meters minimal as faulty water meters generally replaced which is covered by renewed budget and funded from deprecaition charge

Potential savings in annual water operating costs from large multi-occupied properties providing their own private water network

Table 6: Total Equivalent Costs per Rateable Unit

Direct reticulation operating costs	$14.82	**A**
Depreciation on water reticulation pipes	$31.25	**B**
Depreciation on water connection/water meters	$10.44	**C**
Water meter reading/billing/collection costs	$18.67	**D**
Total equivalent cost per connection	**$75.18**	
Less maintenance/depreciation on large water connections/water meters (per dwelling/unit)	-35.83	**E**
Net potential savings in water operating costs per connection from private water network	**$39.35**	

Potential savings in annual water operating costs as a result of large multi-unit properties providing their own private water network

Facility: Raumati Sands: 4 - 8 Matatua Rd No of Units: 23

Table 1: Direct Water Reticulation Operating Costs for Paraparaumu/Raumati

Paraparaumu/Raumati water reticulation opex costs	200,000		
Number of Paraparaumu/Raumati water charges	13,492		
Average operating cost per Paraparaumu/Raumati water connections	**$14.82**	per water charge	**A**

Tabel 2: Depreciation on Water Reticulation Pipes in an Equivalent Residential Street with: 23 Properties

e.g. Typical Street with 23 properties	No. of Dwellings		Capital Cost	Expected Life	Annual Depreciation	Annual Depreciation per property	
	23						
Lineal metres of 20mm laterals	230	@ $100/m	23,000	80	287.5	$12.50	
Lineal metres of 100mm watermain	230	@ $150/m	34,500	80	431.25	$18.75	
Total Cost			**57,500**	**-**	**718.75**	**$31.25**	**B**

*Note: Maintenance costs for water reticulation pipes included in average direct reticulation costs in **'A'** above*

Table 3: Water Meter Reading/Billing/Collection Costs

Total budgeted cost of water meter reading/billing/collection	250,000	
Total number of water bills	23,950	
Cost per connection	**$10.44**	**C**

Table 4: Annual Costs of Water Connections/Meters

e.g. Typical Street with 23 properties	No. of Dwellings		Capital Cost	Average Life Years	Annual Depreciation	Annual Depreciation per property	
	23						
Meter Manifold (20mm)	23	@ $600ea	13,800	50	276	$12.00	
Water Meter (20mm)	23	@ $100ea	2,300	15	153.33	$6.67	
Total Cost					**429.33**	**$18.67**	**D**

Note - Assume the maintenance costs of water meters minimal as faulty water meters generally replaced which is covered by renewed budget and funded from deprecaition charge

Table 5: Less the cost of large water connection/water meters

	Estimated Capital cost of Meter Installation (incl fittings complete)	Asset Life of Meter (years)	Estimated Cost of Connection Pipework (to point of metering complete, assumed 10m)	Total Capital Cost (all complete but excl BFP)	Asset Life of Connection (Years)	Annual Depreciation (combined)	Annual Depreciation Charge per dwelling/unit	
50mm size	7000	15	5000	12,000	80	616.67	26.81	
100mm water meter	0	15	0	0	80	0.00	0.00	
150mm water meter	0	15	0	0	80	0.00	0.00	
Total Cost	**7,000**	**-**	**5,000**	**-**	**240**	**616.67**	**26.81**	**E**

Note - Assume the maintenance costs of water meters minimal as faulty water meters generally replaced which is covered by renewed budget and funded from deprecaition charge

Potential savings in annual water operating costs from large multi-occupied properties providing their own private water network

Table 6: Total Equivalent Costs per Rateable Unit

Direct reticulation operating costs	$14.82	**A**
Depreciation on water reticulation pipes	$31.25	**B**
Depreciation on water connection/water meters	$10.44	**C**
Water meter reading/billing/collection costs	$18.67	**D**
Total equivalent cost per connection	**$75.18**	
Less maintenance/depreciation on large water connections/water meters (per dwelling/unit)	-26.81	**E**
Net potential savings in water operating costs per connection from private water network	**$48.37**	

Potential savings in annual water operating costs as a result of large multi-unit properties providing their own private water network

Facility: The Pier - Cnr Seaview Rd & Marine Pde No of Units: 43

Table 1: Direct Water Reticulation Operating Costs for Paraparaumu/Raumati

Paraparaumu/Raumati water reticulation opex costs	200,000		
Number of Paraparaumu/Raumati water charges	13,492		
Average operating cost per Paraparaumu/Raumati water connections	**$14.82**	per water charge	**A**

Tabel 2: Depreciation on Water Reticulation Pipes in an Equivalent Residential Street with: 43 Properties

e.g. Typical Street with 43 properties	No. of Dwellings		Capital Cost	Expected Life	Annual Depreciation	Annual Depreciation per property	
	43						
Lineal metres of 20mm laterals	430	@ $100/m	43,000	80	537.5	$12.50	
Lineal metres of 100mm watermain	430	@ $150/m	64,500	80	806.25	$18.75	
Total Cost			**107,500**	**-**	**1343.75**	**$31.25**	**B**

*Note: Maintenance costs for water reticulation pipes included in average direct reticulation costs in **'A'** above*

Table 3: Water Meter Reading/Billing/Collection Costs

Total budgeted cost of water meter reading/billing/collection	250,000	
Total number of water bills	23,950	
Cost per connection	**$10.44**	**C**

Table 4: Annual Costs of Water Connections/Meters

e.g. Typical Street with 43 properties	No. of Dwellings		Capital Cost	Average Life Years	Annual Depreciation	Annual Depreciation per property	
	43						
Meter Manifold (20mm)	43	@ $600ea	25,800	50	516	$12.00	
Water Meter (20mm)	43	@ $100ea	4,300	15	286.67	$6.67	
Total Cost					**802.67**	**$18.67**	**D**

Note - Assume the maintenance costs of water meters minimal as faulty water meters generally replaced which is covered by renewed budget and funded from deprecaition charge

Table 5: Less the cost of large water connection/water meters

	Estimated Capital cost of Meter Installation (incl fittings complete)	Asset Life of Meter (years)	Estimated Cost of Connection Pipework (to point of metering complete, assumed 10m)	Total Capital Cost (all complete but excl BFP)	Asset Life of Connection (Years)	Annual Depreciation (combined)	Annual Depreciation Charge per dwelling/unit	
50mm size	0	15	0	0	80	0.00	0	
100mm water meter	12,000	15	10,000	22,000	80	1075.00	25.00	
150mm water meter	0	15	0	0	80	0.00	0.00	
Total Cost	**12,000**	**-**	**10,000**	**22,000**	**-**	**1075.00**	**25.00**	**E**

Note - Assume the maintenance costs of water meters minimal as faulty water meters generally replaced which is covered by renewed budget and funded from deprecaition charge

Potential savings in annual water operating costs from large multi-occupied properties providing their own private water network

Table 6: Total Equivalent Costs per Rateable Unit

Direct reticulation operating costs	$14.82	**A**
Depreciation on water reticulation pipes	$31.25	**B**
Depreciation on water connection/water meters	$10.44	**C**
Water meter reading/billing/collection costs	$18.67	**D**
Total equivalent cost per connection	**$75.18**	
Less maintenance/depreciation on large water connections/water meters (per dwelling/unit)	-25.00	**E**
Net potential savings in water operating costs per connection from private water network	**$50.18**	

Potential savings in annual water operating costs as a result of large multi-unit properties providing their own private water network

Facility: The Links: 376 - 380 Kapiti Road No of Units: 28

Table 1: Direct Water Reticulation Operating Costs for Paraparaumu/Raumati

Paraparaumu/Raumati water reticulation opex costs	200,000		
Number of Paraparaumu/Raumati water charges	13,492		
Average operating cost per Paraparaumu/Raumati water connections	**$14.82**	per water charge	**A**

Tabel 2: Depreciation on Water Reticulation Pipes in an Equivalent Residential Street with: 28 Properties

e.g. Typical Street with 28 properties	No. of Dwellings		Capital Cost	Expected Life	Annual Depreciation	Annual Depreciation per property	
	28						
Lineal metres of 20mm laterals	280	@ $100/m	28,000	80	350	$12.50	
Lineal metres of 100mm watermain	280	@ $150/m	42,000	80	525	$18.75	
Total Cost			**70,000**	**-**	**875**	**$31.25**	**B**

*Note: Maintenance costs for water reticulation pipes included in average direct reticulation costs in **'A'** above*

Table 3: Water Meter Reading/Billing/Collection Costs

Total budgeted cost of water meter reading/billing/collection	250,000	
Total number of water bills	23,950	
Cost per connection	**$10.44**	**C**

Table 4: Annual Costs of Water Connections/Meters

e.g. Typical Street with 28 properties	No. of Dwellings		Capital Cost	Average Life Years	Annual Depreciation	Annual Depreciation per property	
	28						
Meter Manifold (20mm)	28	@ $600ea	16,800	50	336	$12.00	
Water Meter (20mm)	28	@ $100ea	2,800	15	186.67	$6.67	
Total Cost					**522.67**	**$18.67**	**D**

Note - Assume the maintenance costs of water meters minimal as faulty water meters generally replaced which is covered by renewed budget and funded from deprecaition charge

Table 5: Less the cost of large water connection/water meters

	Estimated Capital cost of Meter Installation (incl fittings complete)	Asset Life of Meter (years)	Estimated Cost of Connection Pipework (to point of metering complete, assumed 10m)	Total Capital Cost (all complete but excl BFP)	Asset Life of Connection (Years)	Annual Depreciation (combined)	Annual Depreciation Charge per dwelling/unit	
50mm size	0	15	0	0	80	0.00	0	
100mm water meter	12,000	15	10,000	22,000	80	1075.00	38.39	
150mm water meter	0	15	0	0	80	0.00	0.00	
Total Cost	**12,000**	**-**	**10,000**	**22,000**	**-**	**1075.00**	**38.39**	**E**

Note - Assume the maintenance costs of water meters minimal as faulty water meters generally replaced which is covered by renewed budget and funded from deprecaition charge

Potential savings in annual water operating costs from large multi-occupied properties providing their own private water network

Table 6: Total Equivalent Costs per Rateable Unit

Direct reticulation operating costs	$14.82	**A**
Depreciation on water reticulation pipes	$31.25	**B**
Depreciation on water connection/water meters	$10.44	**C**
Water meter reading/billing/collection costs	$18.67	**D**
Total equivalent cost per connection	**$75.18**	
Less maintenance/depreciation on large water connections/water meters (per dwelling/unit)	-38.39	**E**
Net potential savings in water operating costs per connection from private water network	**$36.79**	

Potential savings in annual water operating costs as a result of large multi-unit properties providing their own private water network

Facility: Seven Oaks - Kāpiti Rd & Sweetman Ave No of Units: 143

Table 1: Direct Water Reticulation Operating Costs for Paraparaumu/Raumati

Paraparaumu/Raumati water reticulation opex costs	200,000		
Number of Paraparaumu/Raumati water charges	13,492		
Average operating cost per Paraparaumu/Raumati water connections	**$14.82**	per water charge	**A**

Tabel 2: Depreciation on Water Reticulation Pipes in an Equivalent Residential Street with: 143 Properties

e.g. Typical Street with 100 properties	No. of Dwellings		Capital Cost	Expected Life	Annual Depreciation	Annual Depreciation per property	
	143						
Lineal metres of 20mm laterals	1430	@ $100/m	143,000	80	1787.5	$12.50	
Lineal metres of 100mm watermain	1430	@ $150/m	214,500	80	2681.25	$18.75	
Total Cost			**357,500**	**-**	**4468.75**	**$31.25**	**B**

*Note: Maintenance costs for water reticulation pipes included in average direct reticulation costs in **'A'** above*

Table 3: Water Meter Reading/Billing/Collection Costs

Total budgeted cost of water meter reading/billing/collection	250,000	
Total number of water bills	23,950	
Cost per connection	**$10.44**	**C**

Table 4: Annual Costs of Water Connections/Meters

e.g. Typical Street with 100 properties	No. of Dwellings		Capital Cost	Average Life Years	Annual Depreciation	Annual Depreciation per property	
	143						
Meter Manifold (20mm)	143	@ $600ea	85,800	50	1716	$12.00	
Water Meter (20mm)	143	@ $100ea	14,300	15	953.33	$6.67	
Total Cost					**2669.33**	**$18.67**	**D**

Note - Assume the maintenance costs of water meters minimal as faulty water meters generally replaced which is covered by renewed budget and funded from deprecaition charge

Table 5: Less the cost of large water connection/water meters

i.e. Seven Oaks	**Estimated Capital cost of Meter Installation** (incl fittings complete)	**Asset Life of Meter** (years)	**Estimated Cost of Connection Pipework** (to point of metering complete, assumed 10m)	**Total Capital Cost** (all complete but excl BFP)	**Asset Life of Connection** (Years)	**Annual Depreciation** (combined)	**Annual Depreciation Charge per dwelling/unit**	
50mm size	0	15	0	0	80	0.00	0	
100mm water meter	12,000	15	10,000	22,000	80	1075.00	7.52	
150mm water meter	18,000	15	15,000	33,000	80	1612.50	11.28	
Total Cost	**30,000**	**-**	**25,000**	**55,000**	**-**	**2687.50**	**18.79**	**E**

Note - Assume the maintenance costs of water meters minimal as faulty water meters generally replaced which is covered by renewed budget and funded from deprecaition charge

Potential savings in annual water operating costs from large multi-occupied properties providing their own private water network

Table 6: Total Equivalent Costs per Rateable Unit

Direct reticulation operating costs	$14.82	**A**
Depreciation on water reticulation pipes	$31.25	**B**
Depreciation on water connection/water meters	$10.44	**C**
Water meter reading/billing/collection costs	$18.67	**D**
Total equivalent cost per connection	**$75.18**	
Less maintenance/depreciation on large water connections/water meters (per dwelling/unit)	-18.79	**E**
Net potential savings in water operating costs per connection from private water network	**$56.38**	