

Project Cost Allocation Summary

Background

Project No	522/000764	Activity	Water Supply
Project Name	Rapaki Fire Flows Upgrade		
Project Manager	City Water & Waste		
Year first spend on the project	2009	Project Scope	New PVC or PE water mains, rider mains and laterals to provide fire flow capacity for Rapaki area, including hydrants, valves and connections.
Year of first cost allocation	2007		
Year of current cost allocation	2007		
Project cost	\$997,400		

Level of Service Definitions

Measure	m3	Primary Driver	Fire Flow Capabilities
Existing Capacity	50.0		
Existing Demand	205.0		
Total Capacity	250.0	Secondary Driver	Provision of additional capacity for growth
Design Capacity Year	2026		
End of Life Year	2100		
Backlog Capacity	155	Capacity Discussion	Proposed capacity of Rapaki Reservoir, assumed figures based on MWH Rapaki reservoir Location Study. Fire flow 90m3 per day included as backlog.
Growth Capacity	45		
New Work Capacity	200		
% Backlog of New Work	77.5	References	MWH Rapaki reservoir Location Study, Sept 2006
% Growth of New Work	22.5		

Localities:

locality	percentage	comment
Lyttelton	100	

Operations and Maintenance

O&M Cost Share	\$0
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Renewal

Stand Alone Renewal Cost	\$274,167	Renewal Scope	Renewal of existing Reticulation through Rapaki
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New Works

Stand Alone New Works Cost	\$470,000	New Works Scope	Increase in size of mains to allow for growth and Fire Flows
Renewal Cost Share	\$274,167		
New Work Cost Share	\$470,000		

Preliminary Cost Shares

Backlog Cost Share	\$560,506
Growth Cost Share	\$162,727

Growth project

Stand Alone Growth Cost	\$500,000	Growth Project Scope	Upgrade of reticulation to allow for growth
Growth Cap	\$550,000		

Unallocated costs

Unallocated Cost Share	\$-0
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Project funding

External Funding	\$0
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Summary of Cost Allocation

	%	Total Cost	Net Cost
O&M		\$0	\$0
Renewal	27.5%	\$274,167	\$274,167
Backlog	56.2%	\$560,506	\$560,506
Growth	16.3%	\$162,727	\$162,727
Unallocated	-0%	\$-0	\$-0
External Funding			\$0
Project Total	100%	\$997,400	\$997,400