WAITOHU FLOOD HAZARD ASSESSMENT : TASK SCHEDULE, COST ESTIMATE AND PROGRAMME

ITEM		COST ESTIMATE		PROGRAMME												
		LOTIMATE	2002/2003								2003/2004					
	1		Aug-02	Sep-02	Oct-02 Nov-02			Mar-03	Apr-03 May-03	Jun-03	Jul-03 Aug-0	3 Sep-03 Oct-03 Nov-03		Mar-04 Apr-04 May-04	Jun-04	
Project Management	#7.000	Г														
Scope Project Ongoing	\$7,606 \$4,384															
Total	Ψ1,001	\$11,990														
Cross-section survey Prepare brief and manage contract	\$2,216															
Liaise with landowners	\$1,080															
Clear sight lines	\$2,820															
Survey	\$11,000															
Establish permanent markers Detailed survey of gravel beach	\$2,080 \$1,160														-	
Total	\$1,100	\$20,356														
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Hydraulics	0000															
Manage Data review and collation	\$896 \$1,736														-	
Extra survey as required	\$420															
Reconfigure model	\$2,792															
Bridge modelling	\$1,696															
Calibration Design runs	\$848 \$1,048														-	
Mapping	\$2,038														+	
Reporting	\$2,116															
Total	igwdot	\$13,590														
Hydrology						-									-	
Management	\$896															
Frequency analysis of Waitohu site	\$780															
Revise Waitohu frequency in light of regional data	\$260														1	
Prepare & run rainfall-runoff model Prepare report	\$2,080 \$780														+	
Total	\$100	\$4,796													 	
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Sedimentation and River Morphology															1	
Manage Project Collate extraction records (included in "history")	\$448 \$0														-	
Sediment budget	\$848														<u> </u>	
Overlay and compare river alignments	\$1,108															
Assess river alignment changes	\$5,632															
Review files for erosion complaints, map (included in "history") Identify land at risk, define erosion hazard zone	\$0 \$4,164														-	
Report	\$3,280														-	
Total	\$0,200	\$15,480													<u> </u>	
Land ownership Prepare maps	\$490														-	
Total	\$490	\$490													+	
1000		7.00														
History of stream management and flood events																
Search records Summarise and map	\$6,636 \$5,360														-	
Total	\$5,360	\$11,996													+	
1000		\$11,000														
Damages																
Manage Project Collate historical damages/losses (included in "history")	\$224 \$0		1												+	
Identify and map land uses	\$920														+	
Prepare damages model	\$1,696															
Calibrate damages model	\$848														1	
Run model for design scenarios Report	\$624 \$1,096					-									-	
Total	क । ,०५०	\$5,408													-	
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Community aspirations/Environmental Issues																
Manage Project	\$698 \$4,488		-													
Prelim. discussions with various agencies etc Review relevant plans and identify links	\$4,488															
Review baseline studies & determine outstanding issues	\$1,198															
Review Otaki/Waikanae env. investigations briefs	\$150															
Questionnaire Scope & prepare the preliminary issues report	\$1,696 \$5,200		-												-	
Consult community	\$5,200 \$3,844														-	
Amend issues report, add any social aspects	\$900															
Total		\$19,222														
Summary Danast																
Summary Report Prepare	\$5,800		-													
Present	\$948															
Total		\$6,748														
Subtotal	<u> </u>	\$110,076 \$10,000	-												-	
Contingency		\$10,000	1												+	
TOTAL		\$120,076													 	
IVIAL		ψ120,010	<u> </u>			1					1					