

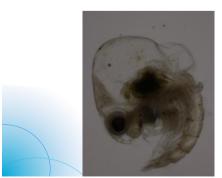
OUTLINE
What is Ecology?
Terrestrial Ecology
Freshwater Ecology
Marine Ecology

Bioresearches ***

What is Ecology?







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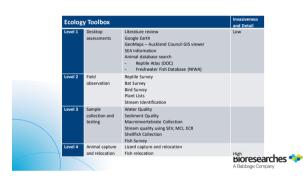
















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Ecolo	Ecology Toolbox		Invasiveness and Detail	
Level 1	Desktop assessments	Literature review Google Earth GeoMaps - Auckland Council GIS viewer SEA Information Animal database search - Reptile Atlas (DOC) - Freshwater Fish Database (NIWA)	Low	
Level 2	Field observation	Reptile Survey Bat Survey Bird Survey Plant Lists Stream Identification		
Level 3	Sample collection and testing	Water Quality Sediment Quality Macroinvertebrate Collection Stream quality using SEV, MCI, ECR Shellfish Collection Fish Survey		
Level 4	Animal capture and relocation	Lizard capture and relocation Fish relocation	High BIOTESE A Babbage Co	

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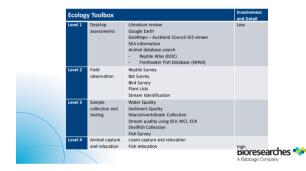
OUTLINE Legislative Framework Ecological Impact Assessment Auckland Airport Case Study Bioresearches



	Project Stages	Ecological Impact Assessment Stages	Consenting Stages
	Early Design	Desktop Scoping Level 1	Consent Scoping
	Developed Design	Detailed Investigation Level 2 and 3	Other technical investigations
_	Revised Design Final Design	Assessment of Effects Mitigation Options Level 4	Consent application including AEE
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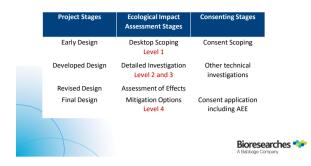






Species	Threat Category*	Threat Status*	Footprint
Copper skink (Oligosoma aeneum)	Not Threatened		✓
Ornate skink (Oligosoma ornatum)	At Risk	Declining	?
Moko skink (Oligosoma moco)	At Risk	Declining	?
Shore skink (Oligosoma smithi)	At Risk	Naturally Uncommon	?
Plague skink (Lampropholis delicata)	Unwanted Organism		✓
Forest gecko (Mokopirirakau granulatus)	At Risk	Declining	×
Pacific gecko (Dactylocnemis pacificus)	At Risk	Relict	x
Elegant gecko (Naultinus elegans)	At Risk	Declining	×
Raukawa gecko (Woodworthia maculata)	Not Threatened		×
Green and golden bell frog (Litoria aurea)	Introduced		?
Southern bell frog (Litoria raniformis)	Introduced		?



















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