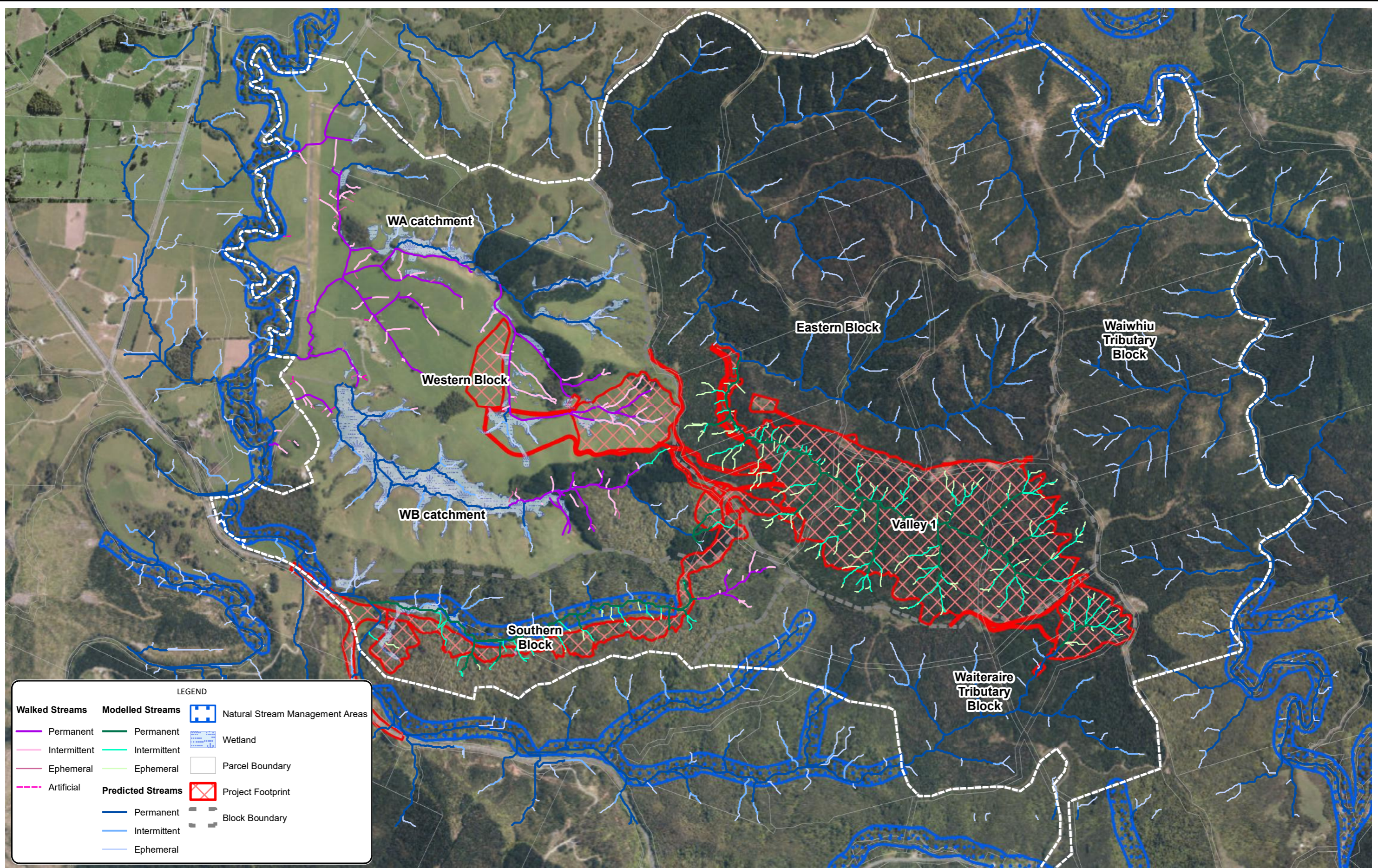


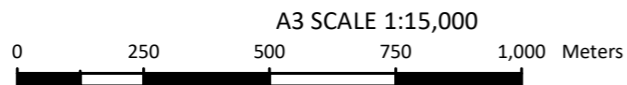
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LEGEND

Walked Streams	Modelled Streams	Natural Stream Management Areas
Permanent	Permanent	Wetland
Intermittent	Intermittent	Parcel Boundary
Ephemeral	Ephemeral	Project Footprint
Artificial	Predicted Streams	Block Boundary
	Permanent	
	Intermittent	
	Ephemeral	

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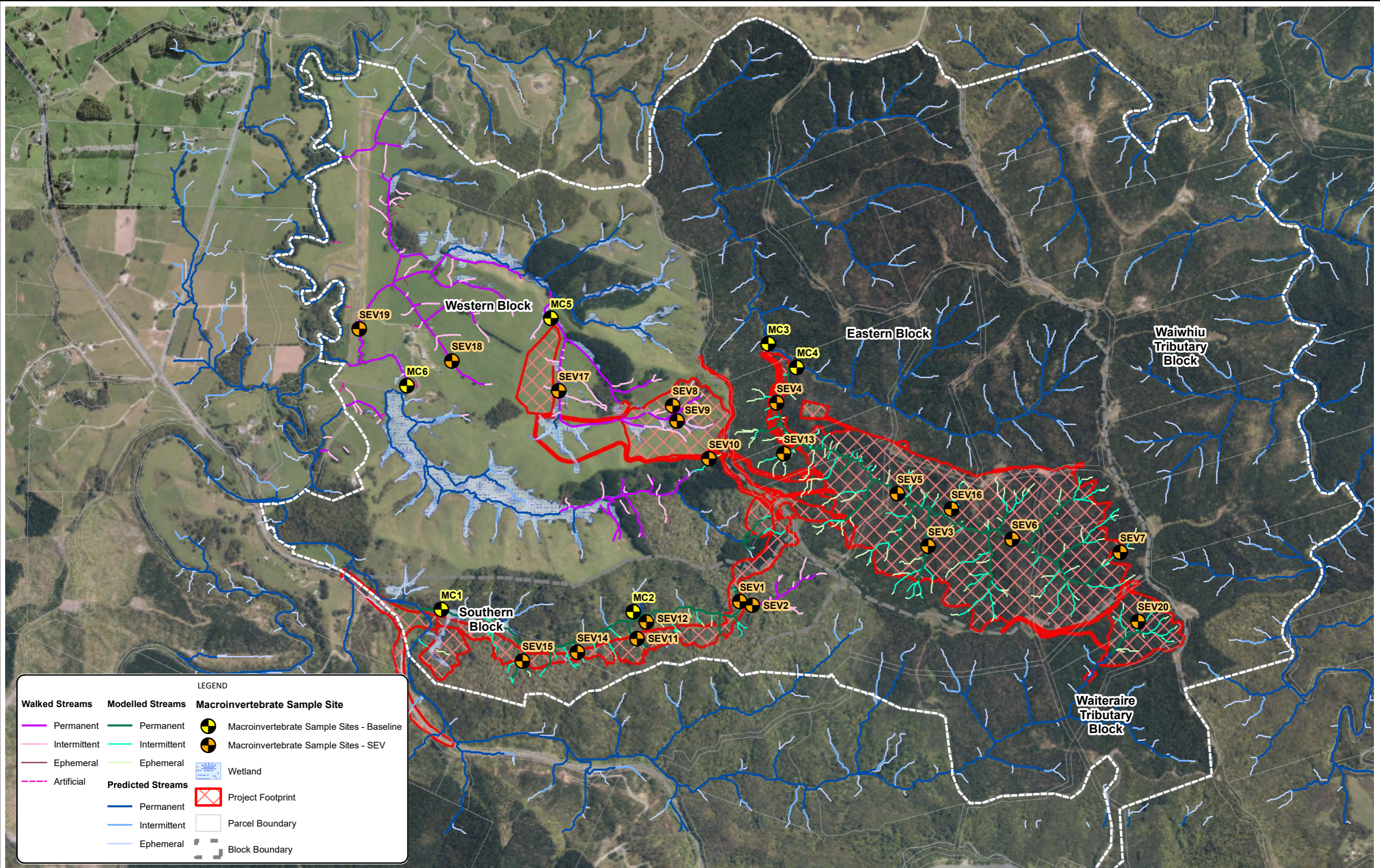
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**WASTE MANAGEMENT NZ
AUCKLAND REGIONAL LANDFILL
STREAM CLASSIFICATION AND EXTENT**

FIGURE No. Figure 1.

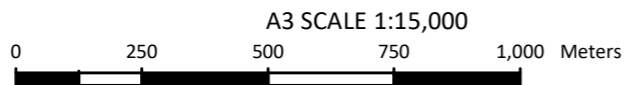
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LEGEND

Walked Streams	Modelled Streams	Macroinvertebrate Sample Site
Permanent (purple line)	Permanent (green line)	Macroinvertebrate Sample Sites - Baseline (yellow/black symbol)
Intermittent (pink line)	Intermittent (cyan line)	Macroinvertebrate Sample Sites - SEV (black/yellow symbol)
Ephemeral (brown line)	Ephemeral (light green line)	Wetland (blue hatched area)
Artificial (dashed pink line)	Predicted Streams	Project Footprint (red hatched area)
	Permanent (blue line)	Parcel Boundary (white dashed line)
	Intermittent (light blue line)	Block Boundary (grey dashed line)
	Ephemeral (very light blue line)	

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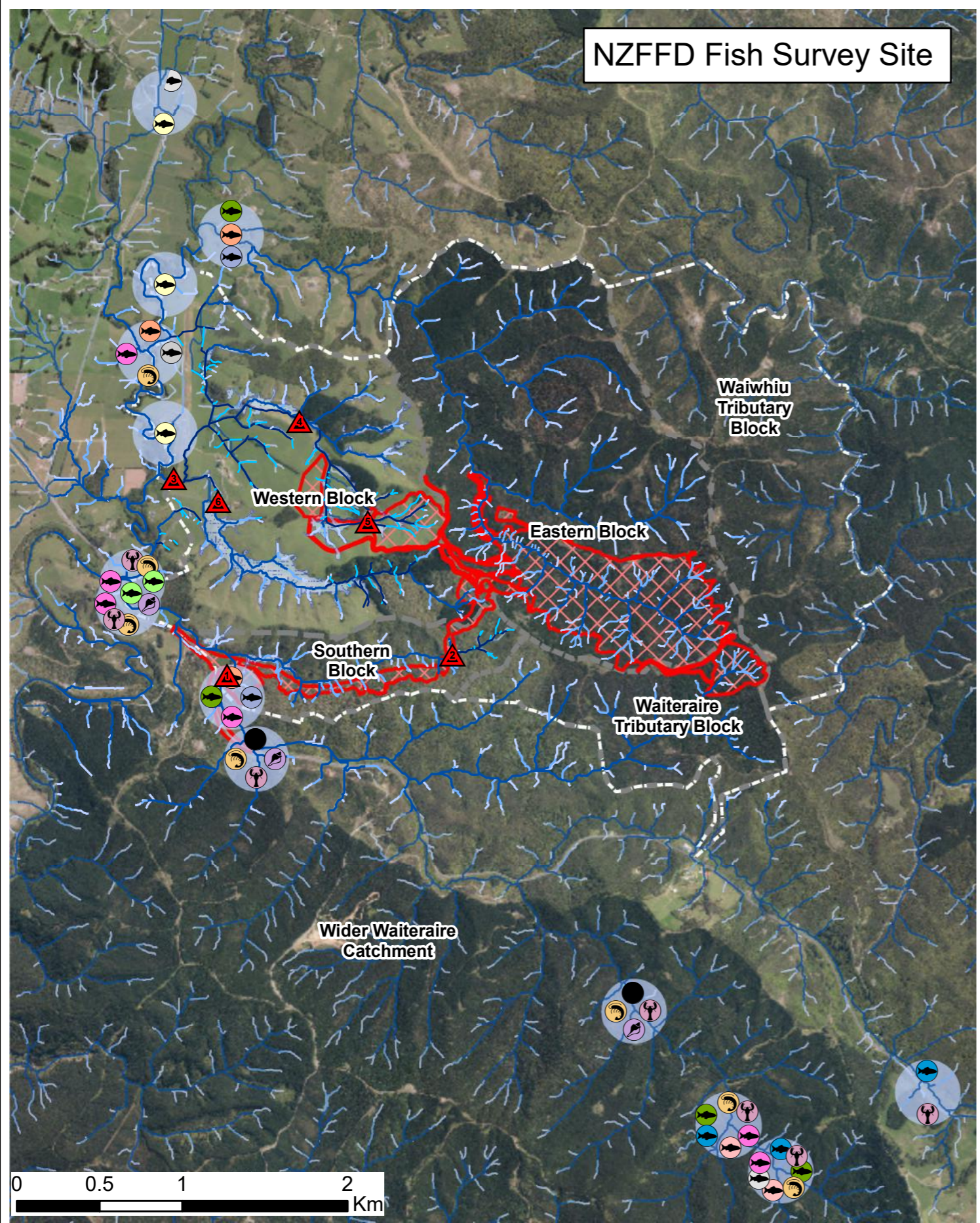


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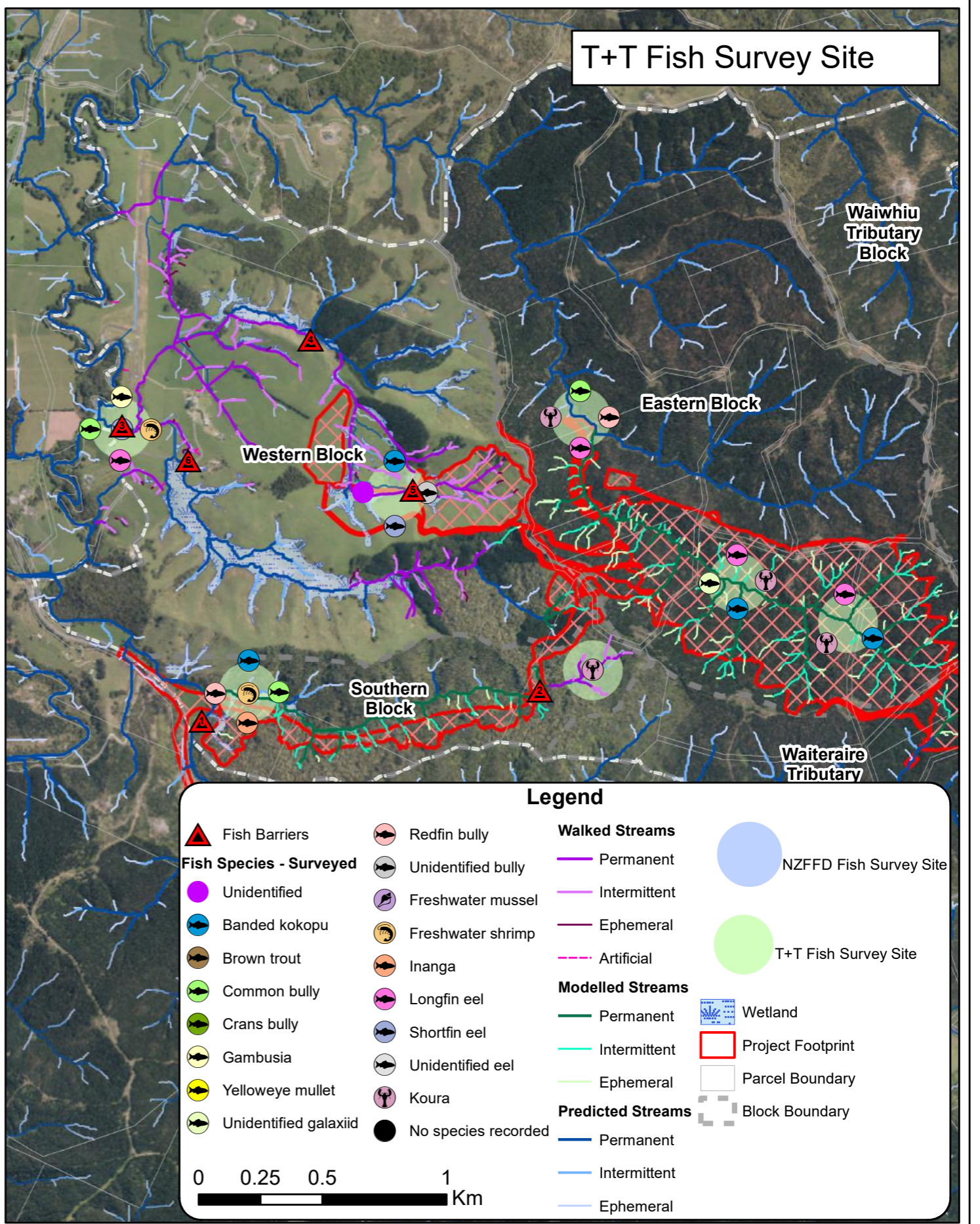
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**WASTE MANAGEMENT NZ
 AUCKLAND REGIONAL LANDFILL
 MACROINVERTEBRATE SAMPLING LOCATIONS**

NZFFD Fish Survey Site



T+T Fish Survey Site



Legend

Fish Barriers	Redfin bully	Walked Streams	NZFFD Fish Survey Site
Fish Species - Surveyed	Unidentified bully	Permanent	T+T Fish Survey Site
Unidentified	Freshwater mussel	Intermittent	
Banded kokopu	Freshwater shrimp	Ephemeral	
Brown trout	Inanga	Artificial	
Common bully	Longfin eel	Modelled Streams	Wetland
Crans bully	Shortfin eel	Permanent	Project Footprint
Gambusia	Unidentified eel	Intermittent	Parcel Boundary
Yelloweye mullet	Koura	Ephemeral	Block Boundary
Unidentified galaxiid	No species recorded	Predicted Streams	
		Permanent	
		Intermittent	
		Ephemeral	

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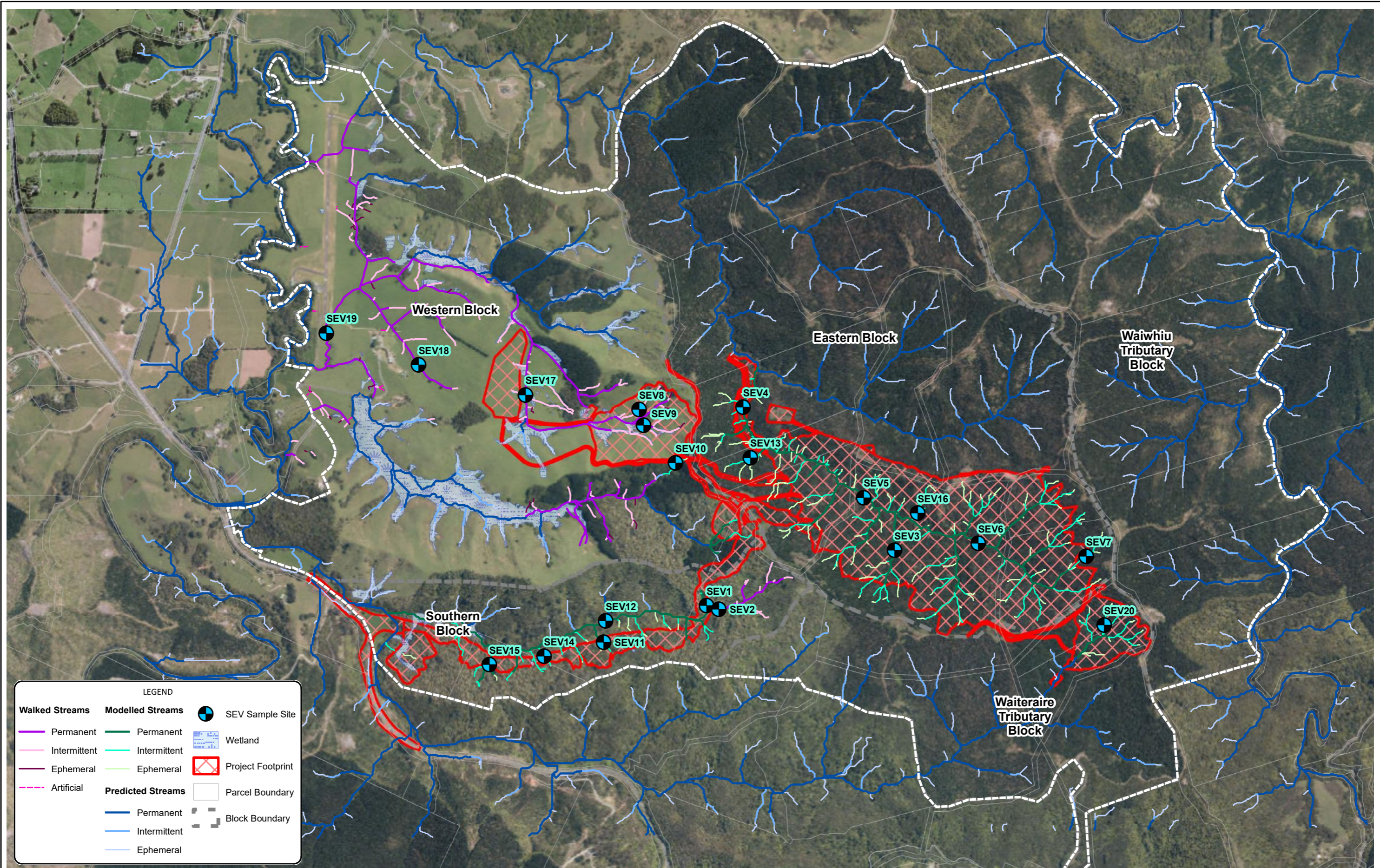
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WASTE MANAGEMENT NZ AUCKLAND REGIONAL LANDFILL FISH SURVEY LOCATIONS

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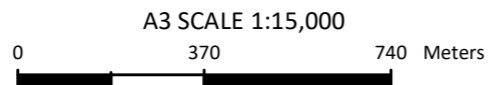
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LEGEND

Walked Streams	Modelled Streams	SEV Sample Site
Permanent	Permanent	Wetland
Intermittent	Intermittent	Project Footprint
Ephemeral	Ephemeral	Parcel Boundary
Artificial	Predicted Streams	Block Boundary
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	Intermittent	
	Ephemeral	

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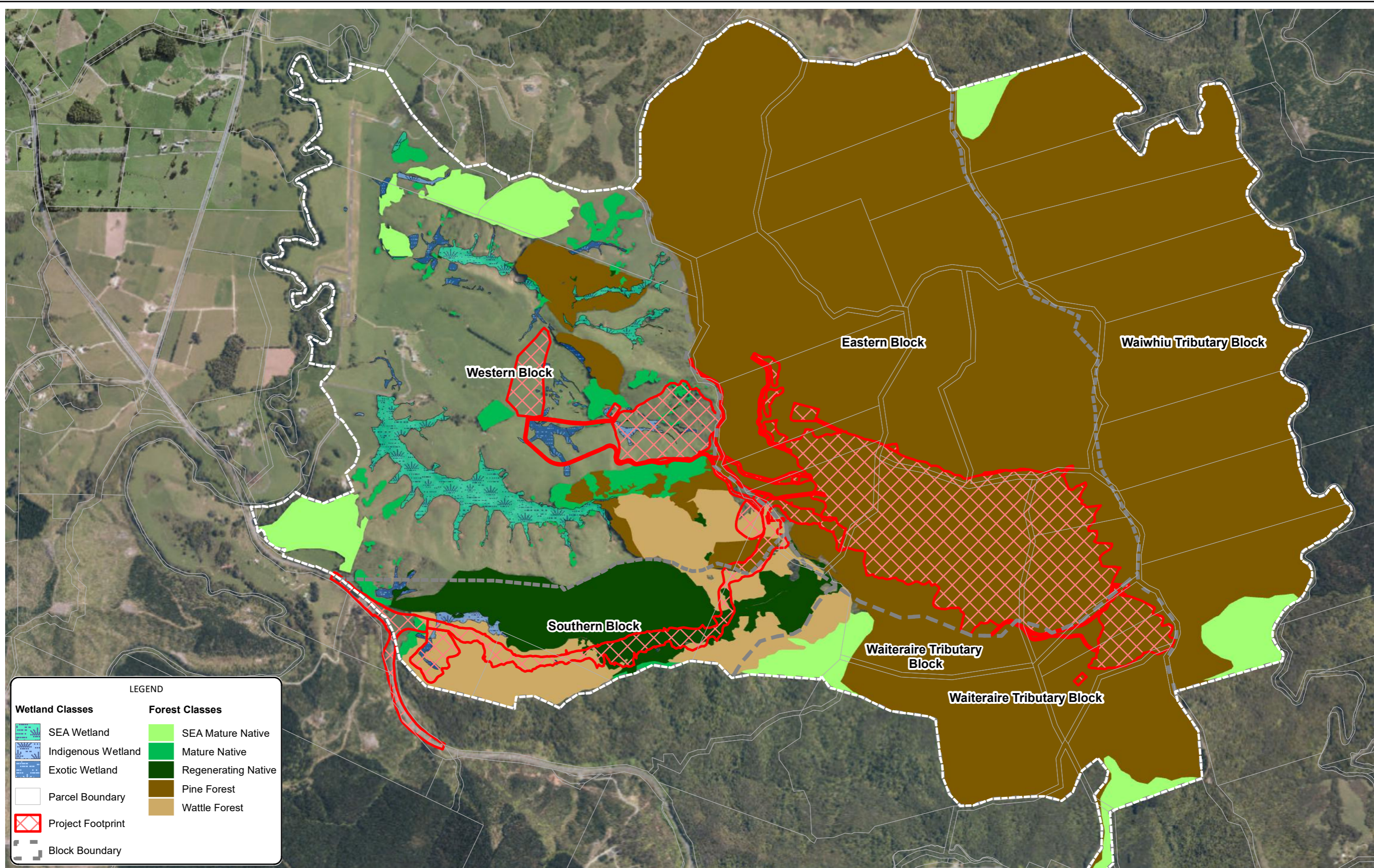
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WASTE MANAGEMENT NZ
AUCKLAND REGIONAL LANDFILL
STREAM ECOLOGICAL VALUATION LOCATIONS

FIGURE No. Figure 4. Rev. 4

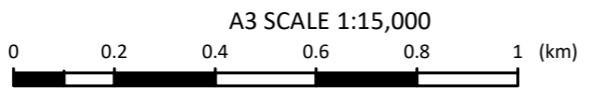
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LEGEND

Wetland Classes	Forest Classes
SEA Wetland	SEA Mature Native
Indigenous Wetland	Mature Native
Exotic Wetland	Regenerating Native
Parcel Boundary	Pine Forest
Project Footprint	Wattle Forest
Block Boundary	

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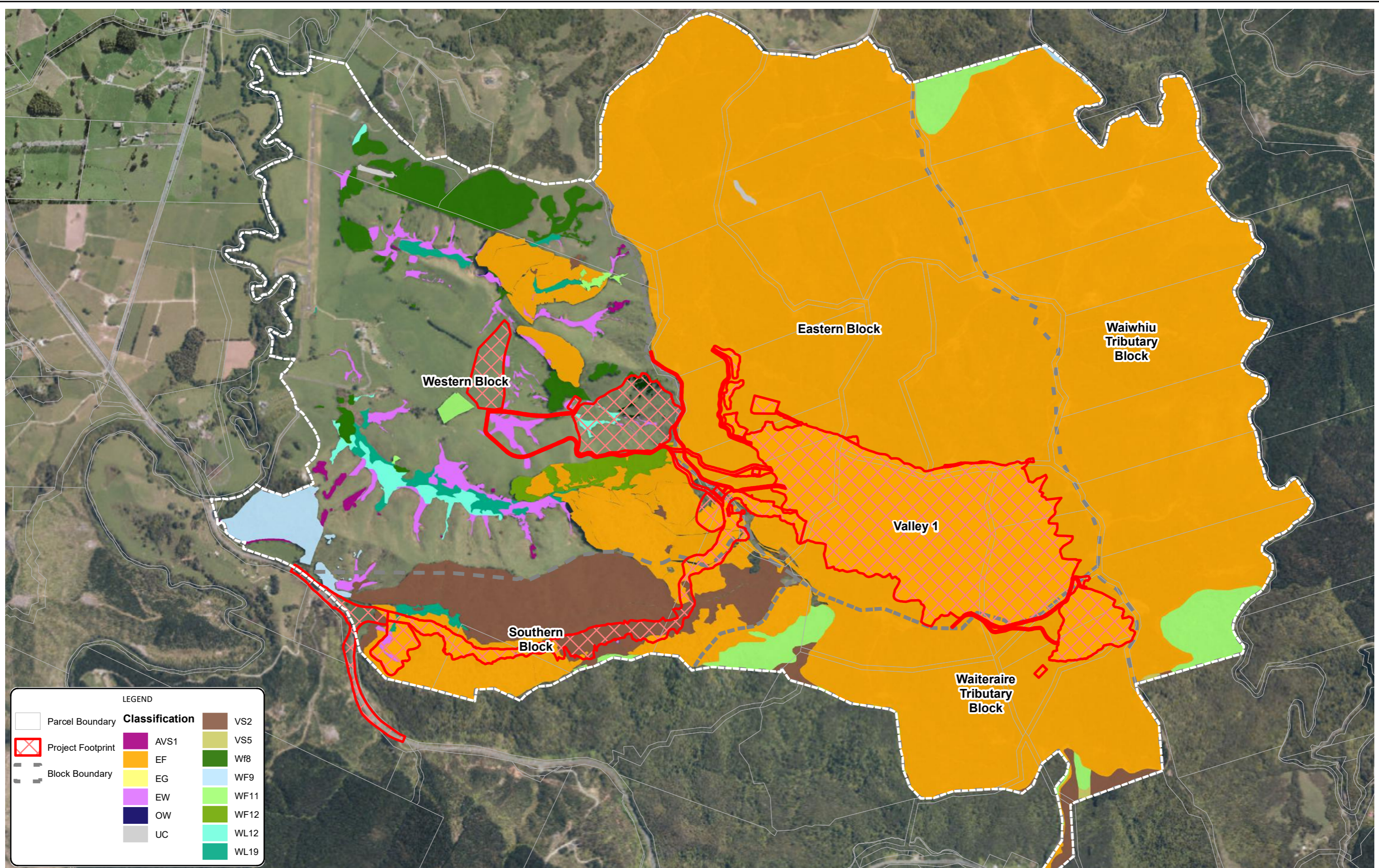
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WASTE MANAGEMENT NZ
AUCKLAND REGIONAL LANDFILL
EXISTING BROAD SCALE VEGETATION CLASSIFICATION

FIGURE No. **Figure 5.**

Rev. **4**

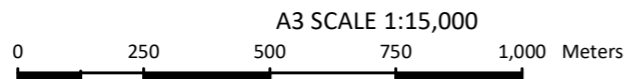
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LEGEND

	Parcel Boundary	Classification		VS2
	Project Footprint		AVS1	
	Block Boundary		EF	
			EG	
			EW	
			OW	
			UC	
			VS5	
			Wf8	
			WF9	
			WF11	
			WF12	
			WL12	
			WL19	

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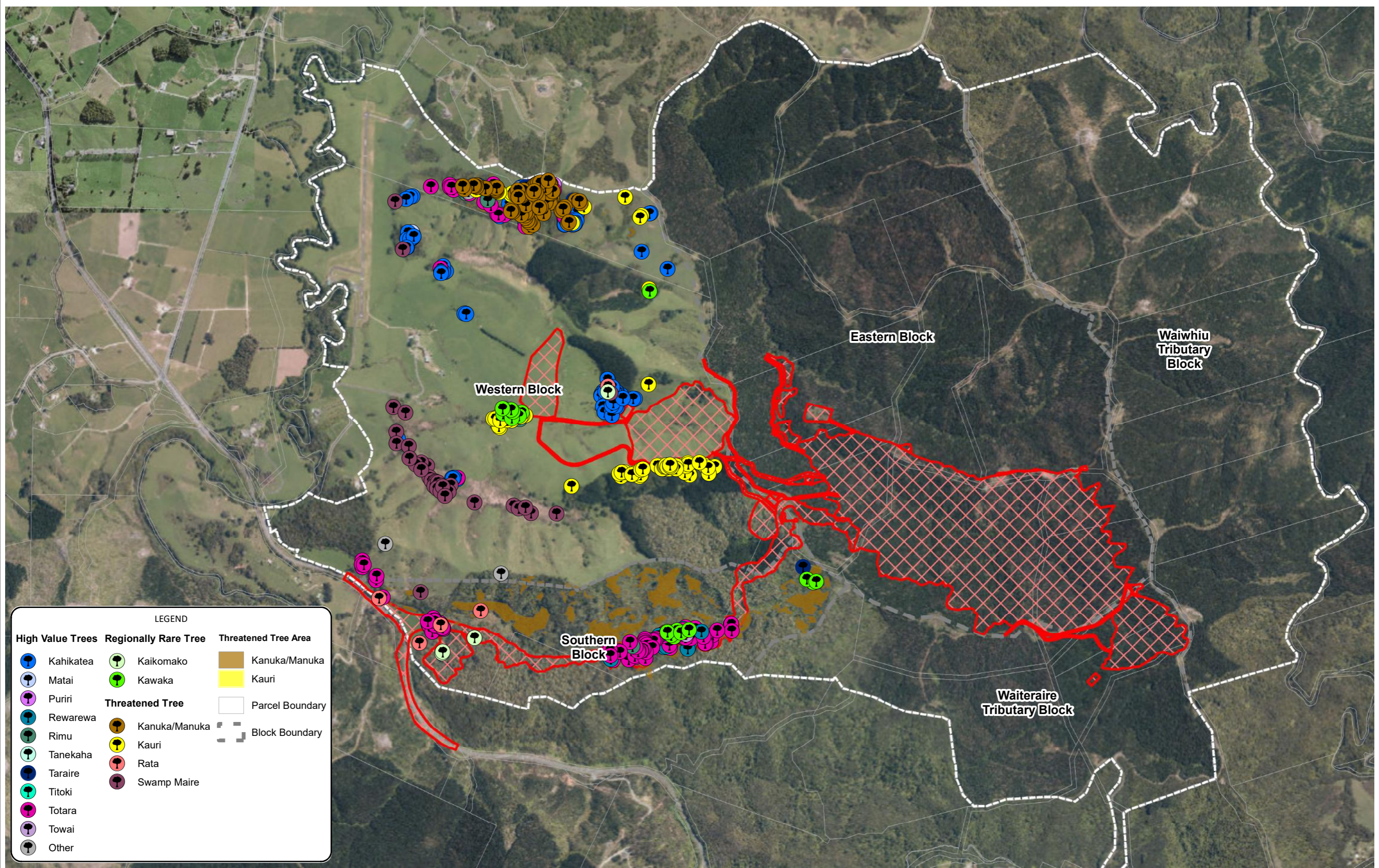


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WASTE MANAGEMENT NZ
AUCKLAND REGIONAL LANDFILL
EXISTING VEGETATION CLASSIFICATION
ACCORDING TO SINGERS

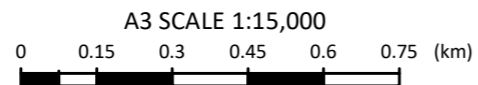
FIGURE No. Figure 5a. Rev. 4



LEGEND

High Value Trees	Regionally Rare Tree	Threatened Tree Area
Kahikatea	Kaikomako	Kanuka/Manuka
Matai	Kawaka	Kauri
Puriri	Threatened Tree	Parcel Boundary
Rewarewa	Kanuka/Manuka	Block Boundary
Rimu	Kauri	
Tanekaha	Rata	
Taraire	Swamp Maire	
Titoki		
Totara		
Towai		
Other		

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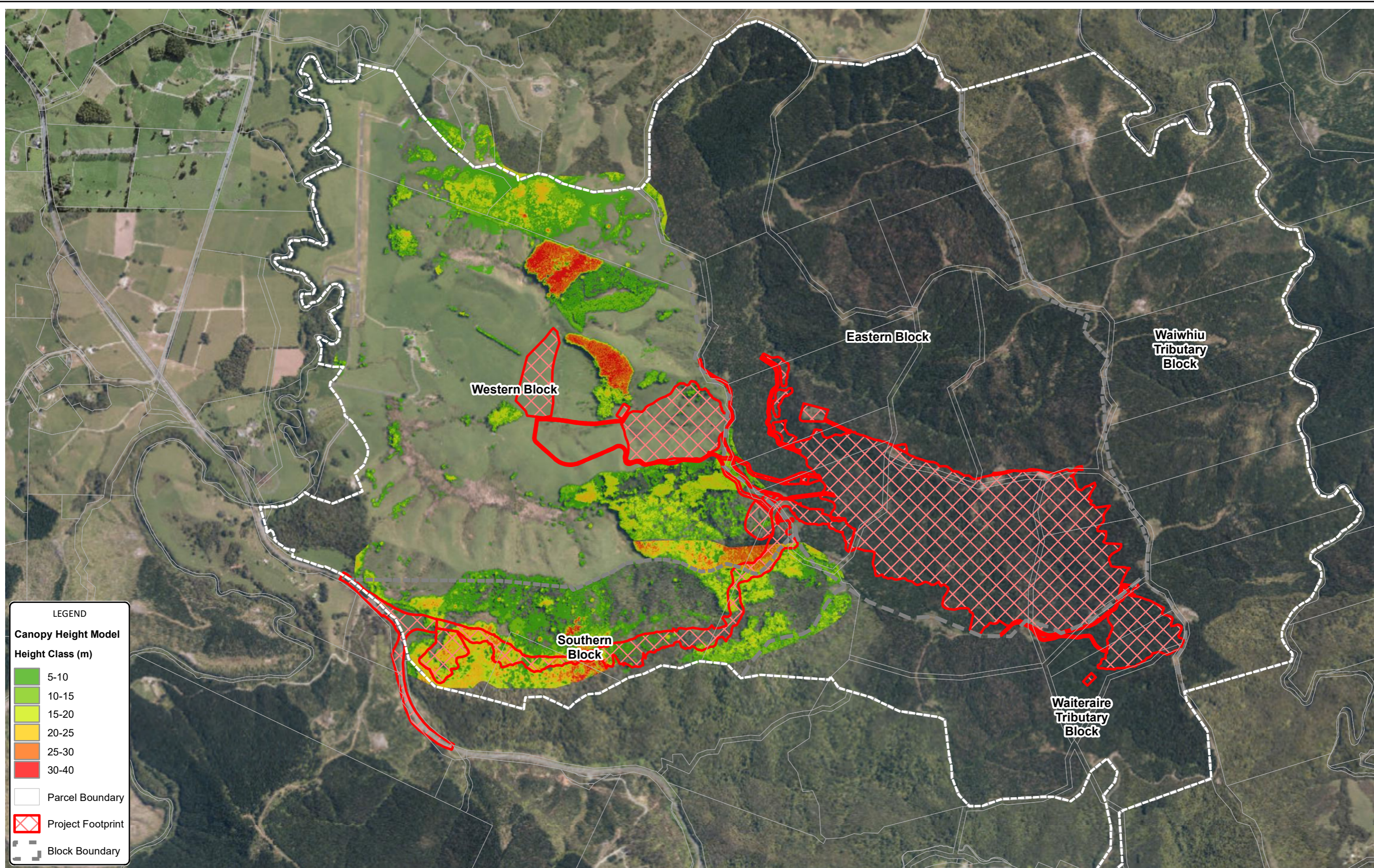
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1005069.1115		

WASTE MANAGEMENT NZ
 AUCKLAND REGIONAL LANDFILL
 THREATENED AND HIGH VALUE TREE SITES IN
 THE WESTERN AND SOUTHERN BLOCKS

FIGURE No. **Figure 6.**

Rev. **4**

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LEGEND

Canopy Height Model

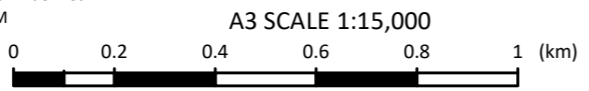
Height Class (m)

- 5-10
- 10-15
- 15-20
- 20-25
- 25-30
- 30-40

- Parcel Boundary
- Project Footprint
- Block Boundary

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Indicative Canopy Height Model created from 2018 UAV derived surface model less 2006 Auckland Council LiDAR DTM



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AUCKLAND REGIONAL LANDFILL
CANOPY HEIGHT MODELLING IN THE
WESTERN AND SOUTHERN BLOCKS

FIGURE No. **Figure 7.**

Rev. **4**