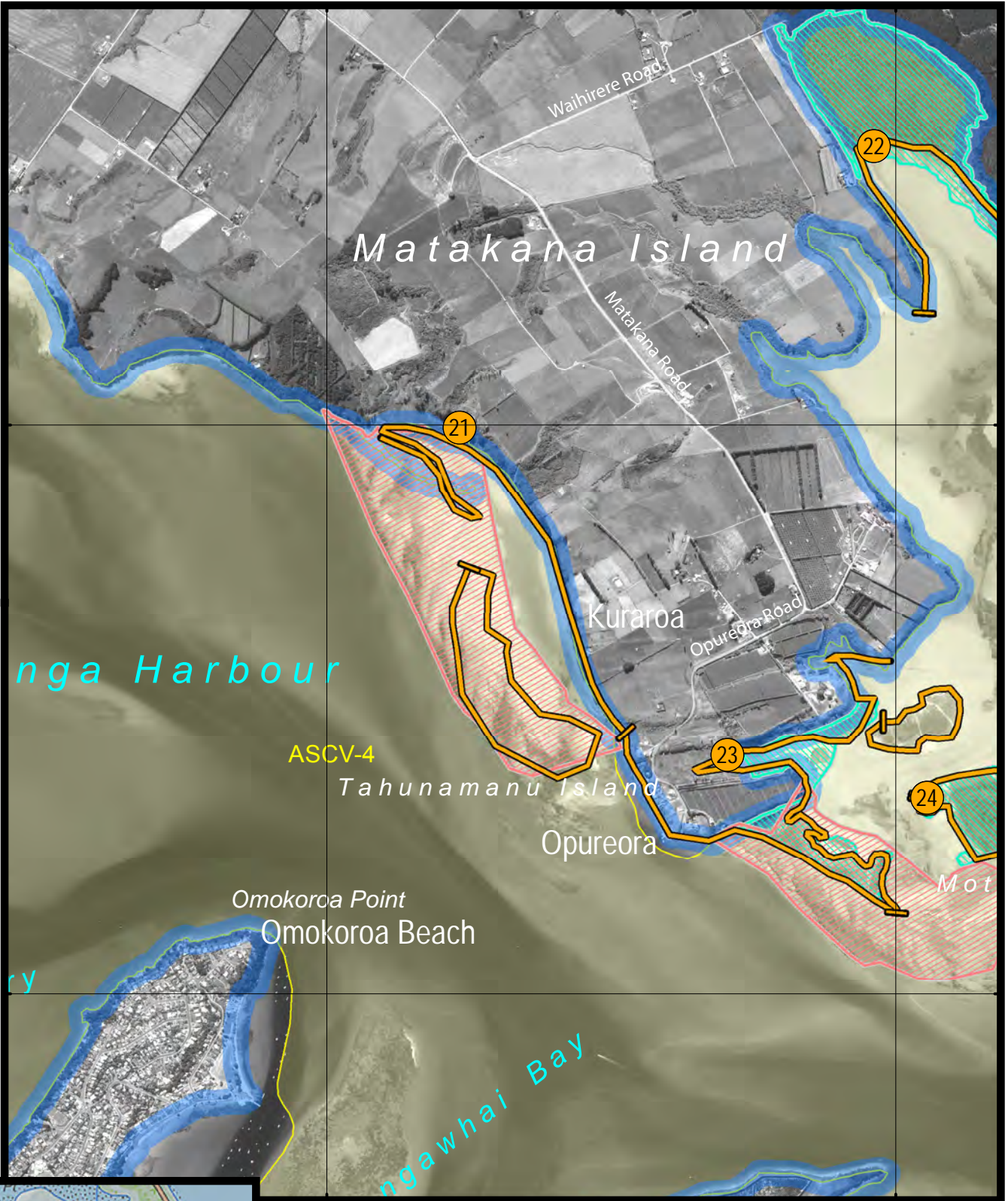


<b>Site 21</b>	<b>Tahunamanu Spit/Island</b>	<b>Risk ranking: 1</b>
<b>DESCRIPTION</b>		
Sand spit and sand island 1 km long, extensive tidal areas around island, tidal flows, low energy areas, wind predominantly westerly. Pampass and some other vegetation on island.		
<b>Foreshore type/environmental value</b>	Intertidal sand flats running up to sand island exposed at high tide. All shore segments have "habitat value". All intertidal areas are identified in the Regional Coastal Plan as areas of significant conservation/ cultural value.	
<b>Map sheets</b>	<b>NZ Topo 50</b> BD36 Lower Kaimai	<b>Chart Number</b> NZ 541
<b>Segments</b>	<b>TAU – 00880 to TAU – 00900</b>	
<b>At Risk resources</b>		
<ul style="list-style-type: none"> <li>• Extensive shellfish beds, surrounding sand flats support a wide range of wading birds (e.g. knots and godwits (kuaka))</li> <li>• Nesting New Zealand dotterel (tuturiwhatu) and caspian tern (taranui) on island and spit</li> <li>• Cultural resources: Mahinga kai</li> </ul>		
<b>Notes</b>		
Minimum public use.		
<b>Actions</b>		
<ul style="list-style-type: none"> <li>• Consider pre-emptive capture of New Zealand dotterels</li> <li>• Discuss pre-clean-up of intertidal debris - tidal range specific – with wildlife team</li> <li>• Shoreline clean-up – the spit with birds removed is a good location for shoreline clean-up and removal of repeated oiling will assist in the reduction of free oil in Tauranga Harbour (see STM for Sandy Beaches Shoreline Clean-up).</li> <li>• Consider pre-emptive capture of wildlife generally.</li> <li>• Activation of oiled wildlife response collection teams if required.</li> </ul>		
<b>Access</b>		
Boat access to island, foot access to spit from Matakana Island.		

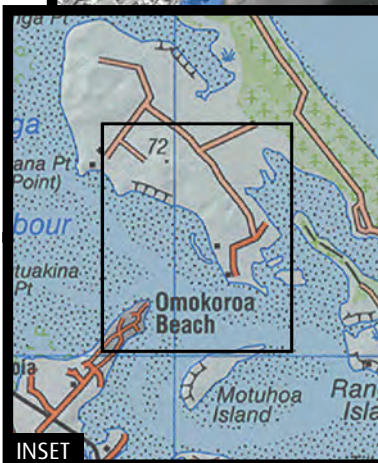
**Preferred Response Option Matrix**

	<b>Most preferred</b>	<b>Least preferred</b>	<b>Feasibility</b>
Containment and Recovery	Medium		Moderate tidal flow - possible
On water Recovery	High		Possible with ORV or similar system
Dispersant Application	Low	Requires escalation to Tier 3 and MNZ approval	Water depth won't allow
Shoreline Clean-up	High		Good option, access by boats
Natural Recovery	Medium		On-going monitoring after initial clean










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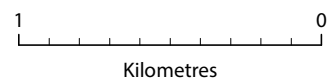


**LEGEND**

-  SCAT Sites
-  Shorebird Roosts
-  Site District of Local Significance
-  Coastal Habitat Preservation Zone
-  Beach Accessways
-  Area Sensitive to Coastal Hazards
-  Area of Significant Conservation Value

## SITE 21 Tahunamanu Spit/Island

### Oil Spill Management Plan



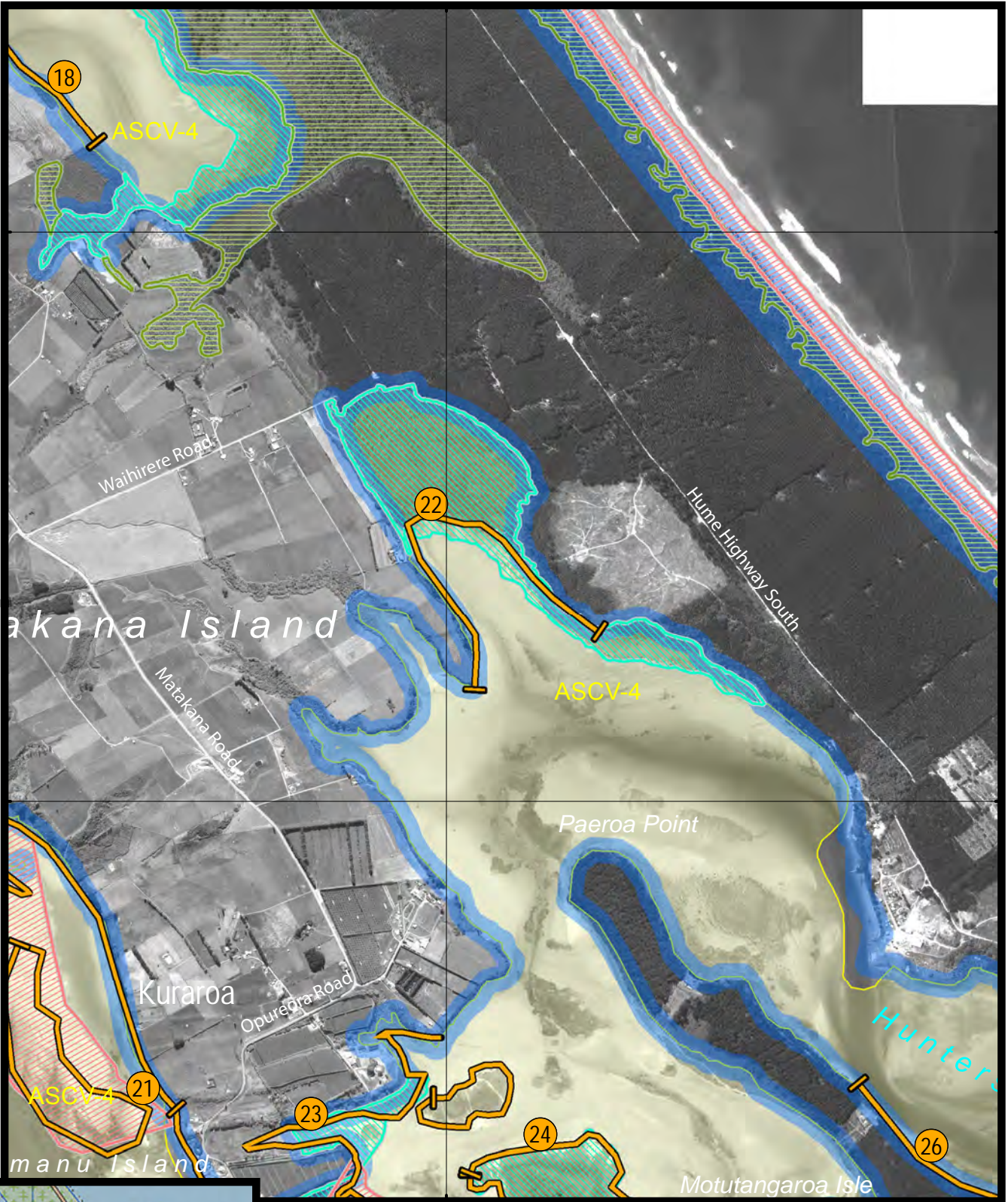
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
Site 22	Hunter Creek	Risk ranking: 1
<b>DESCRIPTION</b> Saltmarsh and mangrove edge, upper end Hunters Creek, shallow intertidal flats, low energy tidal movement.		
<b>Foreshore type/environmental value</b>	Shallow intertidal flats. All shore segments have “habitat value”. All intertidal areas are identified in the Regional Coastal Plan as areas of significant conservation/cultural value.	
<b>Map sheets</b>	<b>NZ Topo 50</b> BD36 Lower Kaimai	<b>Chart Number</b> NZ 541
<b>Segments</b>	<b>TAU-00990</b>	
<b>At Risk Resources</b> <ul style="list-style-type: none"> <li>• Wetland birds, fernbird (mātātā), banded rail (kataitai), flounder (pātiki), pukeko</li> <li>• Cultural site/values: Kaimoana collection, mahinga kai</li> <li>• Culturally important fishing area</li> </ul>		
<b>Notes</b> Oil that enters the low energy systems of this estuary will remain for some time. Oil will harm intertidal and sand flats habitat.		
<b>Actions</b> <ul style="list-style-type: none"> <li>• Prevent/ minimise oil ingress into this system</li> <li>• This area is a high priority for ongoing beach clean-up</li> <li>• Notify wildlife team of potential for oiling</li> <li>• Consider pre-emptive capture of wildlife generally</li> <li>• Activation of oiled wildlife response collection teams if required</li> </ul>		
<b>Access</b> <ul style="list-style-type: none"> <li>• Vehicle and foot access off Hume Highway, Matakana Island.</li> </ul>		

### Preferred Response Option Matrix

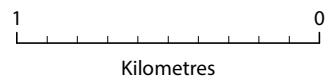
	Most preferred	Least preferred	Feasibility
Containment and Recovery	High		Deflection and Containment booms possible
On water Recovery	High		Shallow and tidal, possible at entrance of creek
Dispersant Application	Low	Requires escalation to Tier 3 and MNZ approval	Depth won't allow
Shoreline Clean-up	High		Good beach access
Natural Recovery	Medium		On-going monitoring



**LEGEND**

-  SCAT Sites
-  Shorebird Roosts
-  Site District of Local Significance
-  Coastal Habitat Preservation Zone
-  Beach Accessways
-  Area Sensitive to Coastal Hazards
-  Area of Significant Conservational Value

# SITE 22 Hunter Creek Oil Spill Management Plan



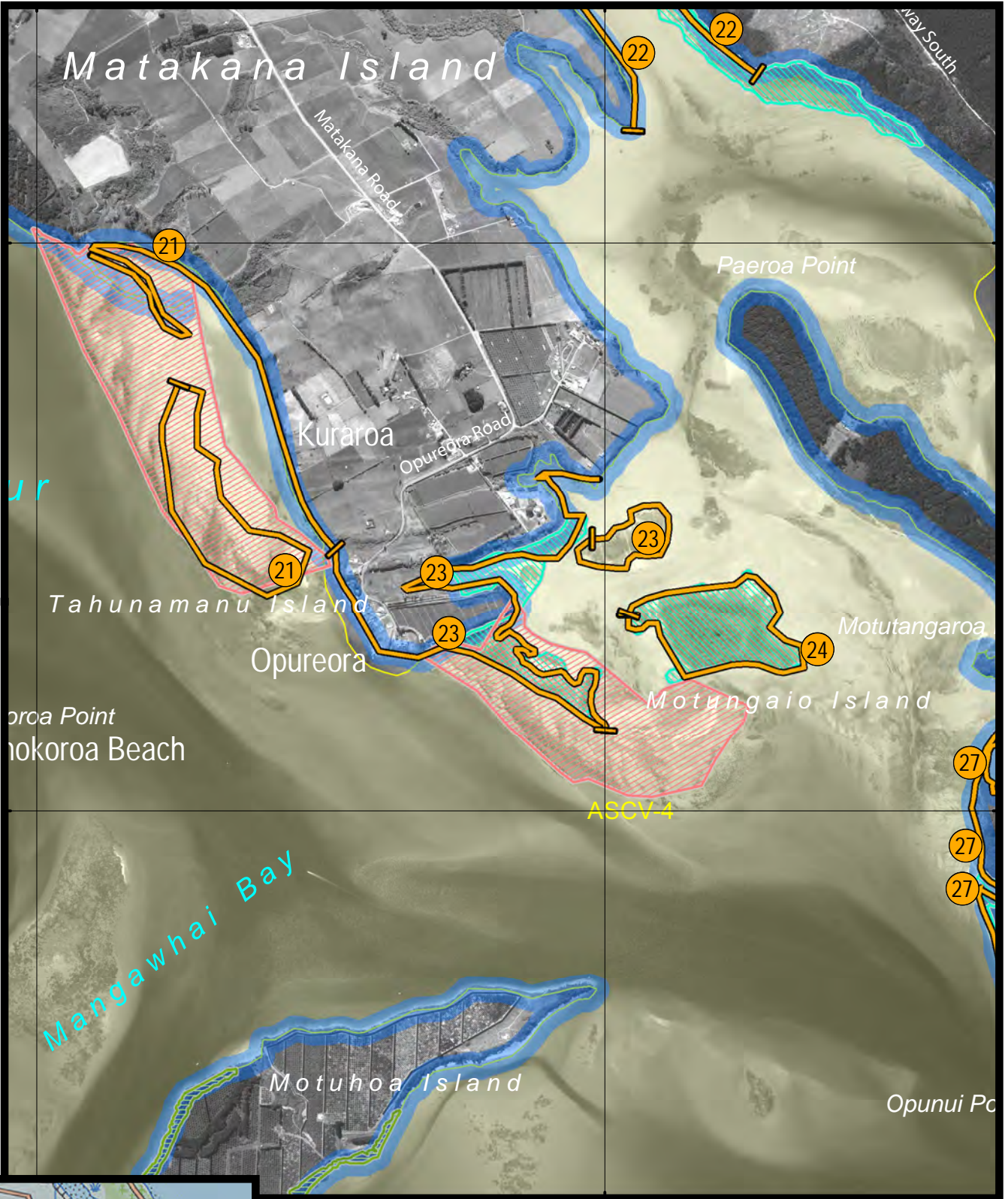
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Site 23	Opureora Spit	Risk ranking: 1
<b>DESCRIPTION</b> Sand spit, salt marsh and jointed rush, surrounded by intertidal sand flats.		
<b>Foreshore type/environmental value</b>	Sand spit. All shore segments have "habitat value". All intertidal areas are identified in the Regional Coastal Plan as areas of significant conservation/ cultural value.	
<b>Map sheets</b>	<b>NZ Topo 50</b> BD36 Lower Kaimai	<b>Chart Number</b> NZ 541
<b>Segments</b>	<b>TAU-00910 to TAU-000950</b>	
<b>At Risk Resources</b>		
<ul style="list-style-type: none"> <li>Wading birds nesting and roosting site, including: variable oystercatcher (tōrea pango), godwit (kuaka), knots, white-faced heron (matuku-moana), New Zealand dotterel (tuturiwhatu), fern bird (mātātā), marsh crake (koitareke), spotless crake (pūweto)</li> <li>Mangroves</li> <li>Jointed rush</li> <li>Saltmarsh</li> <li>Mud/sand flats</li> <li>Fish habitat including: flounder (patiki)</li> <li>Cultural resources: Mahinga kai</li> </ul>		
<b>Notes</b> Where possible, oil should be prevented from entering the Tauranga Harbour.		
<b>Actions</b>		
<ul style="list-style-type: none"> <li>Prevent/minimise oil ingress into this system</li> <li>Consider collection and recovery on sandy areas</li> <li>Notify wildlife team of potential for oiling</li> <li>Discuss pre-clean-up of intertidal debris - tidal range specific – with wildlife team</li> <li>Consider pre-emptive capture of New Zealand dotterel</li> <li>Consider pre-emptive capture of wildlife generally</li> <li>Activation of oiled wildlife response collection teams if required</li> </ul>		
<b>Access</b>		
<ul style="list-style-type: none"> <li>On Matakana Island, access from Opureora boat ramp, walk east around harbour edge.</li> </ul>		

**Preferred Response Option Matrix**

	<b>Most preferred</b>	<b>Least preferred</b>	<b>Feasibility</b>
Containment and Recovery	High		Use natural collection points
On water Recovery	High		Shallow water
Dispersant Application	Low	Requires escalation to Tier 3 and MNZ approval	Shallow water
Shoreline Clean-up	Medium		Good
Natural Recovery	Medium		On-going monitoring



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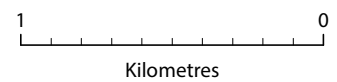
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**LEGEND**

- SCAT Sites
- Shorebird Roosts
- Site District of Local Significance
- Coastal Habitat Preservation Zone
- Beach Accessways
- Area Sensitive to Coastal Hazards
- Area of Significant Conservation Value

# SITE 23 Opureora Spit Oil Spill Management Plan



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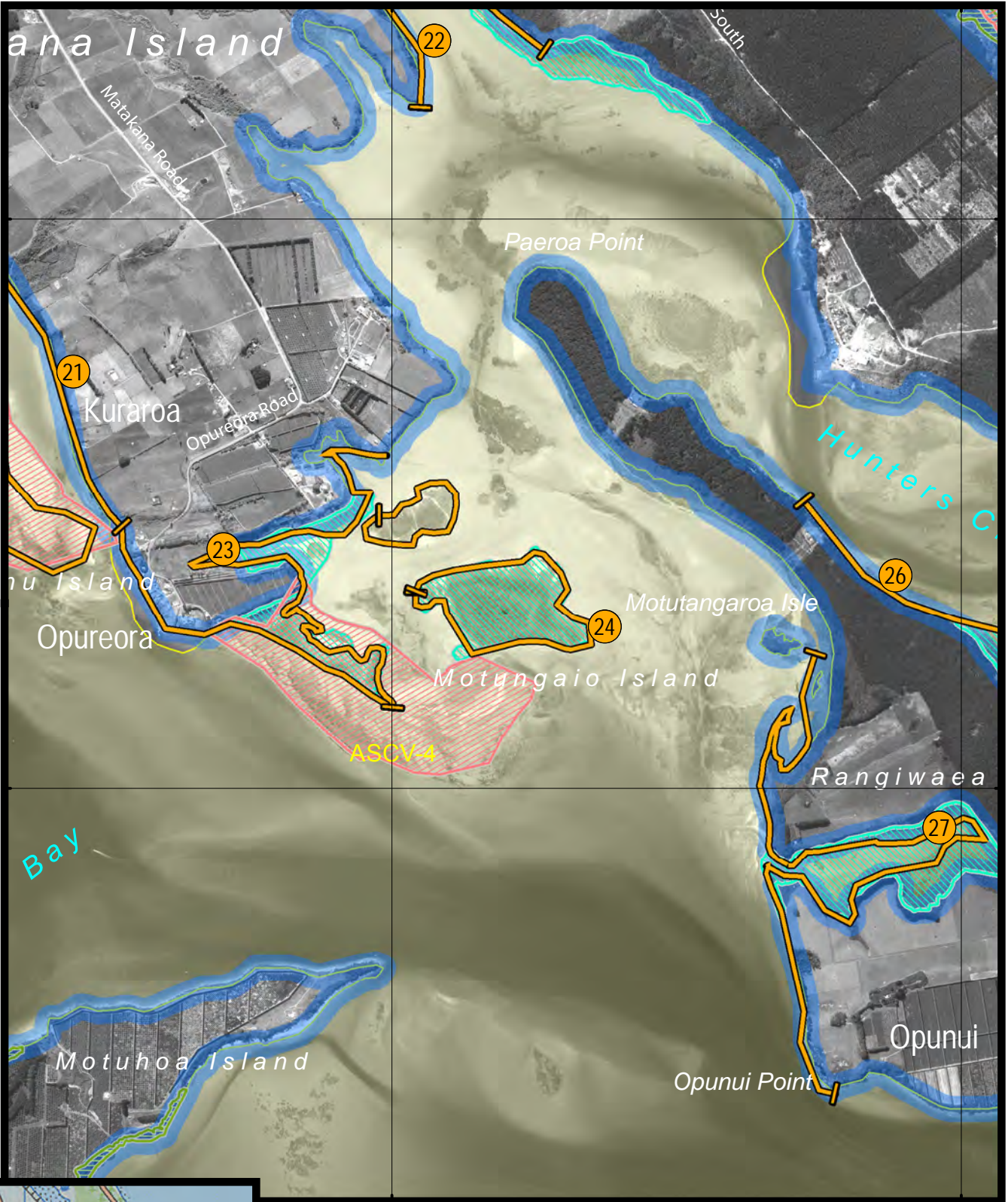




Site 24	Motungaio Island	Risk ranking: 3
<b>DESCRIPTION</b>		
Motungaio Island is a 20 ha island that is exposed at low tide within the Tauranga Harbour. It is located between Omokoroa and the southern end of Matakana Island. Motungaio is a good example of a vegetation sequence grading from saltmarsh to manuka scrub and forest.		
<b>Foreshore type/environmental value</b>	Sandy, muddy shores, riparian vegetation. Habitat, shoreline, contact.	
<b>Map sheets</b>	<b>NZMS 260 Series</b> BD 36 Lower Kaimai	<b>Chart Number</b> NZ 541
<b>Segments</b>	<b>TAU-00930</b>	
<b>At Risk Resources</b>		
<ul style="list-style-type: none"> <li>Banded rail (kataitai), North Island fern bird (mātātā), flounder (pātiki)</li> <li>All intertidal areas are identified in the Regional Coastal Plan as areas of significant conservation/cultural value</li> <li>Cultural Values: Mahinga kai, site of significance</li> </ul>		
<b>Notes</b>		
Where possible, oil should be prevented from entering the Tauranga Harbour.		
<b>Actions</b>		
<ul style="list-style-type: none"> <li>Prevent/minimise oil ingress into this system</li> <li>Notify wildlife team of potential for oiling</li> <li>Consider pre-emptive capture of wildlife generally</li> <li>Activation of oiled wildlife response collection teams if required</li> </ul>		
<b>Access</b>		
Via boat at high tide. Via foot from Opureroa on Matakana Island at low tide.		

### Preferred Response Option Matrix

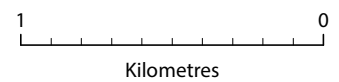
	Most preferred	Least preferred	Feasibility
Containment and Recovery	High		Unlikely to work due to tidal movements
On water Recovery	High		Possible with ORV or similar
Dispersant Application	Low	Requires escalation to Tier 3 and MNZ approval	Water depth won't allow
Shoreline Clean-up	Medium		Only possible at low tide
Natural Recovery	High		This area covers and uncovers with the tide.



**LEGEND**


	SCAT Sites
	Shorebird Roosts
	Site District of Local Significance
	Coastal Habitat Preservation Zone
	Beach Accessways
	Area Sensitive to Coastal Hazards
	Area of Significant Conservation Value

## SITE 24 Motungai Island Oil Spill Management Plan



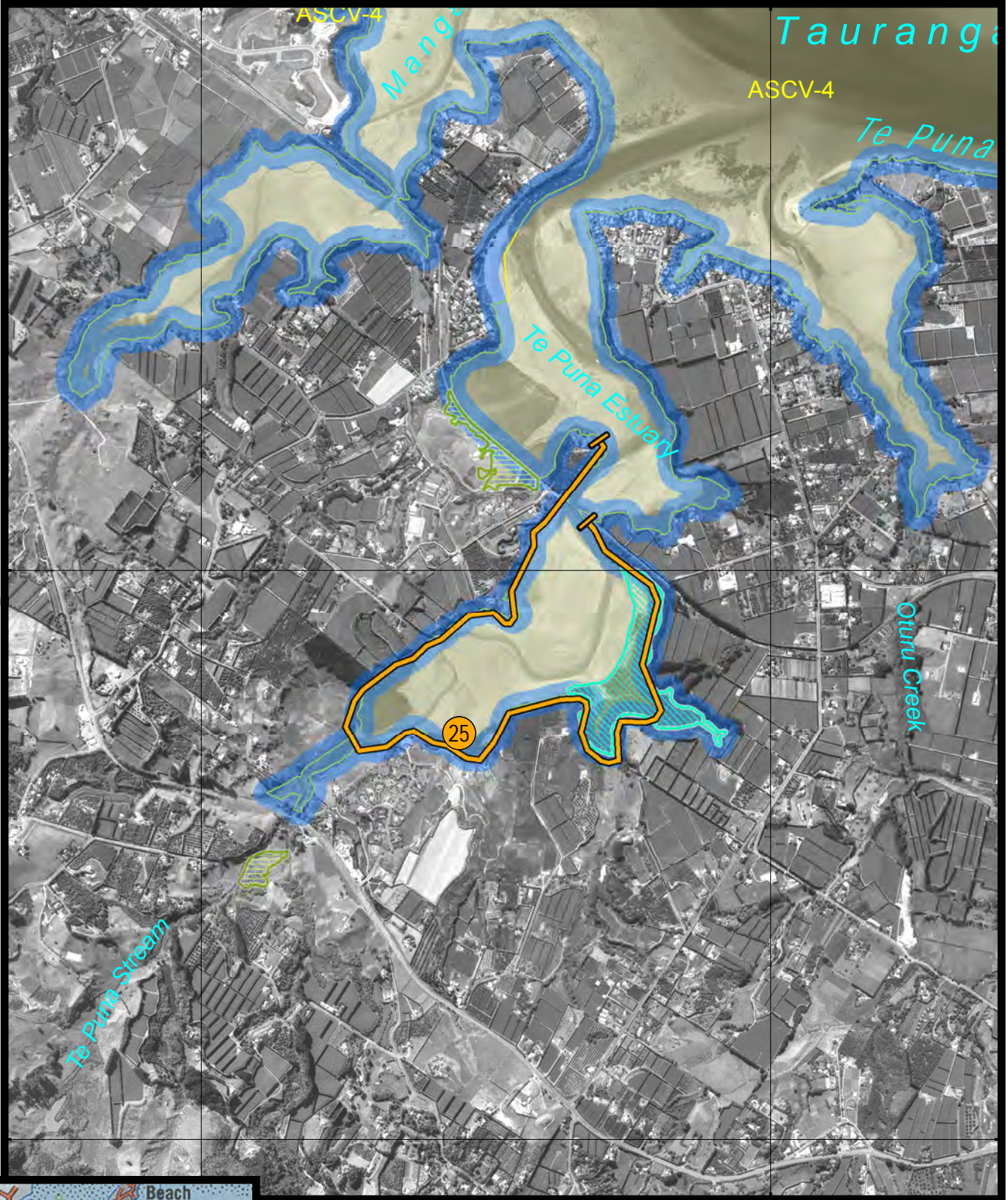
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Site 25	Te Puna	Risk ranking: 3
<b>DESCRIPTION</b>		
Saltmarsh with strip of mangrove on harbour side, the manuka forest on the landward site is a good quality example of manuka forest. The intertidal shoreline is exposed from mid-tide.		
<b>Foreshore type/environmental value</b>	Sandy/muddy shores, mangroves, intertidal habitat. Habitat (intertidal), contact. All shore segments have "habitat value".	
<b>Map sheets</b>	<b>NZ Topo 50</b> BD36 Lower Kaimai	<b>Chart Number</b> NZ 541
<b>Segments</b>	<b>TAU-00390</b>	
<b>At Risk Resources</b>		
<ul style="list-style-type: none"> <li>• Bird species present include: banded rail (kataitai), fern bird (mātātā), NZ Dotterel</li> <li>• Jess Road wildlife management reserve, saltmarsh</li> <li>• Cultural resources: Pa sites</li> </ul>		
		
<ul style="list-style-type: none"> <li>• All intertidal areas are identified in the Regional Coastal Plan as areas of significant conservation/cultural value.</li> </ul>		
<b>Notes</b>		
Where possible, oil should be prevented from entering the Tauranga Harbour.		
<b>Actions</b>		
<ul style="list-style-type: none"> <li>• Prevent/minimise oil ingress into this system</li> <li>• Notify wildlife team of potential for oiling</li> <li>• Consider pre-emptive capture of wildlife generally</li> </ul>		
<b>Access</b>		
Vehicle/foot access via Snodgrass Road or Jess Road		

**Preferred Response Option Matrix**








	<b>Most preferred</b>	<b>Least preferred</b>	<b>Feasibility</b>
Containment and Recovery	High		Booming at railway bridge possible
On water Recovery	Medium		Only possible at railway bridge if booming successful
Dispersant Application	Low	Requires escalation to Tier 3 and MNZ approval	Water depth won't allow
Shoreline Clean-up	Low		Refer NEBA
Natural Recovery	Low		Cultural significance



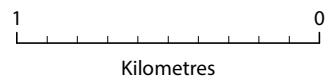
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**LEGEND**

-  SCAT Sites
-  Shorebird Roosts
-  Site District of Local Significance
-  Coastal Habitat Preservation Zone
-  Beach Accessways
-  Area Sensitive to Coastal Hazards
-  Area of Significant Conservational Value

## SITE 25 Te Puna Oil Spill Management Plan



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