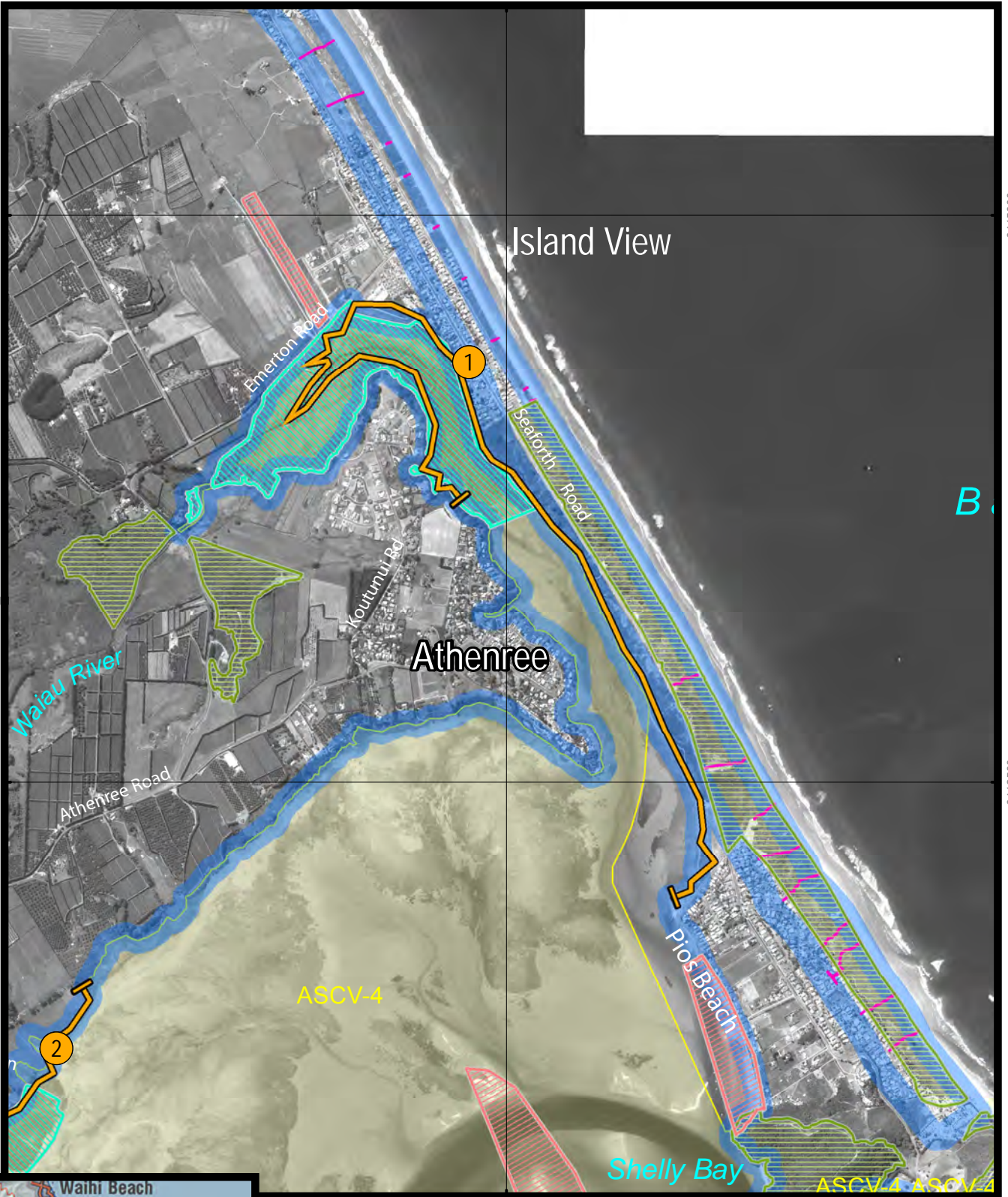


<b>Site 01</b>	<b>Waiau/Athenree</b>	<b>Risk ranking: 1</b>
<p><b>DESCRIPTION</b></p> <p>Athenree is a large nationally ranked wetland, much of which is relatively unmodified, comprising a representative example of the estuarine vegetation of Tauranga Harbour. Much of this site is in the Athenree Wildlife Management Reserve.</p> <p><b>This site has the highest ecological values of whole harbour and wildlife refuge.</b></p>		
<b>Foreshore type/environmental value</b>	<p>Sand and mudflat Mangroves All intertidal areas are identified in the Regional Coastal Plan as areas of significant conservation/cultural value.</p>	
<b>Map sheets</b>	<b>NZ Topo 50</b> BC36 Katikati	<b>Chart number</b> NZ541
<b>Segments</b>	<b>TAU-00710 to TAU-00720</b>	
<p><b>At Risk resources</b></p> <ul style="list-style-type: none"> <li>• Wetland and intertidal habitat</li> <li>• Shellfish gathering site</li> <li>• Birds at risk include: Banded rail (kataitai), bittern (kataitai), spotless crake (pūweto), marsh crake (koitareke) and North Island fernbird (matata)</li> <li>• Cultural sites: U13/915 (Midden)</li> </ul>		
<p><b>Notes</b></p> <ul style="list-style-type: none"> <li>• Operations should consider booming the mouth of this site as it is approximately 100 m wide</li> <li>• Oil that enters the low energy systems of this estuary will remain for some time. Oil will harm intertidal and sand flats habitat</li> <li>• There is a low energy drain through middle of the wetland</li> </ul> <p><b>Actions</b></p> <ul style="list-style-type: none"> <li>• Prevent/minimise oil ingress into this system</li> <li>• Clean sandy areas according to STM</li> <li>• Discuss pre-clean-up of intertidal debris - tidal range specific</li> <li>• If oil enters low energy, sensitive areas, clean-up to be informed by SCAT/Environment</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>		
<p><b>Access</b></p> <ul style="list-style-type: none"> <li>• Vehicle access off Emerton Road at Island View or Kautunui Road at Athenree</li> <li>• Foot access through wetland</li> </ul>		

**Preferred Response Option Matrix**

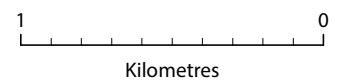
	<b>Most preferred</b>	<b>Least preferred</b>	<b>Feasibility</b>
Containment and recovery	High		Yes – can be boomed
On water recovery	Medium		Very shallow, dries out
Dispersant application	Low	Requires escalation to Tier 3 and MNZ approval	Water depth won't allow
Shoreline clean-up	High		Good access to shoreline
Natural recovery	Low		High public access



**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 1 Waiau/Athenree Oil Spill Management Plan



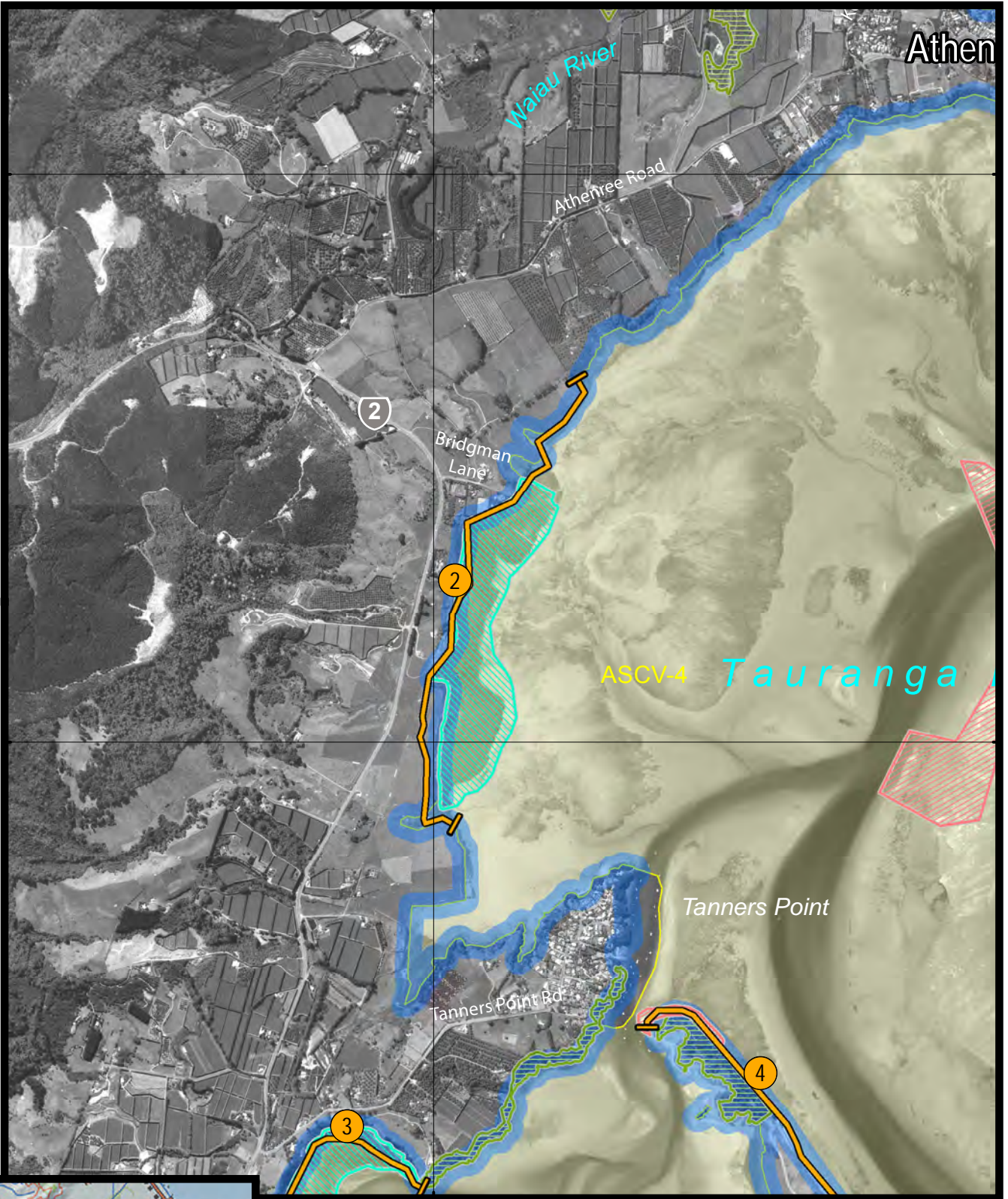
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<b>Site 02</b>	<b>North Tanners Point</b>	<b>Risk ranking: 3</b>
<b>DESCRIPTION</b>		
Site is 1.5 km Northwest of Tanners Point, narrow salt marsh and mangrove strip. Low energy tidal flow.		
<b>Foreshore type/environmental value</b>	Sandy/muddy shores, riparian vegetation. 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>TOPO 50</b> BC36 Katikati	<b>Chart Number</b> NZ 541
<b>Segments</b>	<b>TAU-00680</b>	
<b>At Risk resources</b>		
<ul style="list-style-type: none"> <li>• Fernbird (kataitai), Banded Rail (kataitai)</li> <li>• Cultural resources: mahinga kai (fishing)</li> </ul>		
<b>Notes</b>		
Where possible, oil should be prevented from entering the harbour		
<b>Actions</b>		
<ul style="list-style-type: none"> <li>• Prevent/minimise oil ingress into this system</li> <li>• If oil enters low energy, sensitive areas, clean-up to be determined in consultation with environmental advisors</li> </ul>		
<b>Access</b>		
Foot access from SH 2 and Bridgeman Lane. Access may be difficult at low tide on soft mud and also at high tide.		

### Preferred Response Option Matrix

	Most preferred	Least preferred	Feasibility
Containment and recovery	Medium		Large area dries at low tide
On water recovery	Medium		Possible but only in channels
Dispersant application	Low	Requires escalation to Tier 3 and MNZ approval	Water depth won't allow
Shoreline clean-up	Medium		NEBA – limited access – tidal/soft
Natural recovery	Medium		Ongoing monitoring










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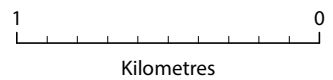
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**LEGEND**

-  SCAT Sites
-  Shorebird Roosts
-  Site District of Local Significance
-  Coastal Habitat Preservation Zone
-  Beach Accessways
-  Area Sensitive to Coastal Hazards
-  ASCV-4

## SITE 2 North Tanners Point Oil Spill Management Plan



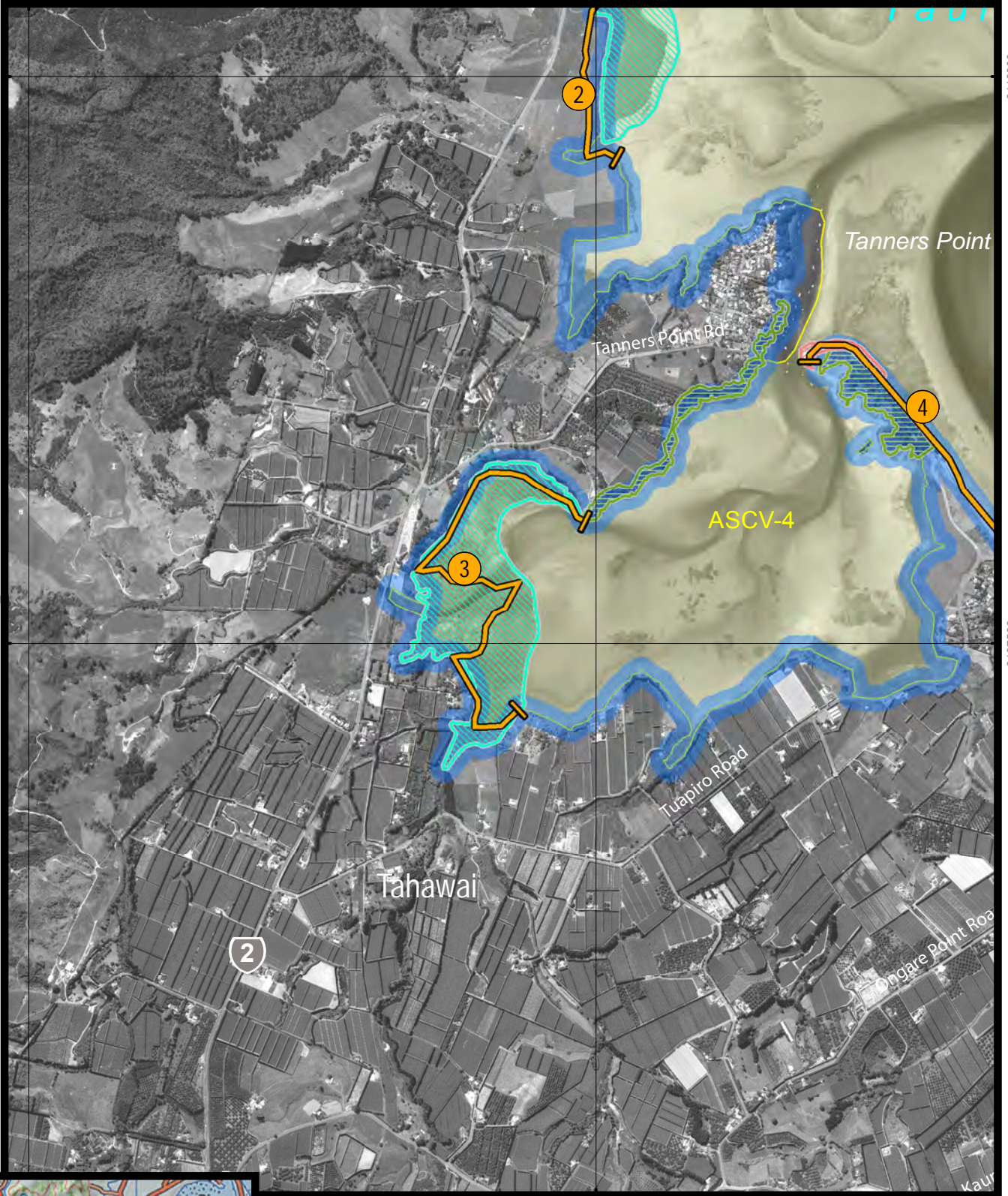
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<b>Site 03</b>	<b>Upper Tuapiro Estuary</b>	<b>Risk ranking: 2</b>
<b>DESCRIPTION</b>		
This is a large, relatively good quality, diverse example of the estuarine vegetation of Tauranga Harbour. Saltmarsh with mangrove edge, there is a narrow fringe of freshwater wetland vegetation. Tuapiro Stream runs through middle of site. Intertidal shoreline dries below mid-tide.		
<b>Foreshore type/environmental value</b>	Sand, salt marsh, riparian vegetation. All shore segments have "habitat value".	
<b>Map sheets</b>	<b>TOPO 50</b> BC36 Katikati	<b>Chart Number</b> NZ 541
<b>Segments</b>	<b>TAU-00650</b>	
<b>At Risk Resources</b>		
<ul style="list-style-type: none"> <li>Banded rail (kataitai), Marsh crake (koitareke), North Island fernbird (mātātā), wading birds, shags</li> <li>Shellfish gathering</li> <li>Whitebait (inanga) spawning habitat</li> <li>Cultural sites: T13/657 (Midden - 3 x 7 m area of pipi; cockle (tuangi); mudsnail (Titiko); and turret shell)</li> <li>All intertidal areas are identified in the Regional Coastal Plan as areas of significant conservation/ cultural value</li> </ul>		
<b>Notes</b>		
Booming may be effective in preventing oil ingress in intertidal area of Tuapiro Stream. Will need to be assessed by ops.		
<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>		
Vehicle access SH 2 and Tanners Point Road.		

### Preferred Response Option Matrix

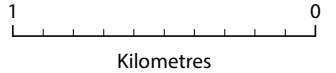
	<b>Most preferred</b>	<b>Least preferred</b>	<b>Feasibility</b>
Containment and Recovery	High		The stream entrance can be effectively boomed
On water Recovery	Low		Shallow area
Dispersant Application	Low	Requires escalation to Tier 3 and MNZ approval	Water depth won't allow
Shoreline Clean-up	Medium		Access via private property
Natural Recovery	High		Refer NEBA



**LEGEND**

-  SCAT Sites
-  Shorebird Roosts
-  Site District of Local Significance
-  Coastal Habitat Preservation Zone
-  Beach Accessways
-  Area Sensitive to Coastal Hazards
-  ASCV-4

## SITE 3 Upper Tuapiro Estuary Oil Spill Management Plan



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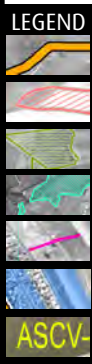


<b>Site 04</b>	<b>Tuapiro Estuary Spit</b>	<b>Risk ranking: 2</b>
<b>DESCRIPTION</b>		
Sand spit with pasture/development and scrub /trees at the furthest extent. No wetland areas have been identified.		
<b>Foreshore type/environmental Value</b>	Sand, mud flats, intertidal habitat. All shore segments 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> BC36 Katikati	<b>Chart Number</b> NZ5411
<b>Segments</b>	<b>TAU-00620</b>	
<b>At Risk Resources</b>		
<ul style="list-style-type: none"> <li>Local birds include: godwit (kuaka), tern (taranui), white-faced heron (matuku-moana), oystercatcher (tōrea), shag (kawau), NZ Dotterel.</li> <li>Cultural sites/resources:</li> <li>There are several archeological sites close to shore in this section. The following sites are described as Midden: U13/766, U13/770, U13/716, U13/770, U13/716, U13/691. Site U13/773 is described as "x7 flakes of obsidian found over 50 m of beach".</li> </ul>		
<b>Notes</b>		
Where possible, oil should be prevented from entering Tauranga Harbour.		
<b>Actions</b>		
<ul style="list-style-type: none"> <li>Clean-up of sensitive shorelines should be completed in line with the relevant Shoreline Treatment Methodology (See STMs for Sandy, saltmarsh and reeds Clean-up)</li> <li>The requirement for shoreline clean-up in sensitive areas is to be determined in consultation with environmental advisor</li> </ul>		
<b>Access</b>		
4WD Vehicle access via Ongare Point Road, foot access along spit.		

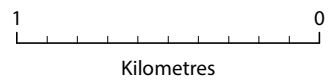
### Preferred Response Option Matrix

	Most preferred	Least preferred	Feasibility
Containment and recovery	High		Some deflection and entrance booming possible
On water recovery	High		Possible if ORV or similar available
Dispersant application	Low	Requires escalation to Tier 3 and MNZ approval	Water depth won't allow
Shoreline clean-up	Medium		Limited access, large mangrove area
Natural recovery	Medium		Limited access





## SITE 4 Tuapiro Estuary Spit Oil Spill Management Plan



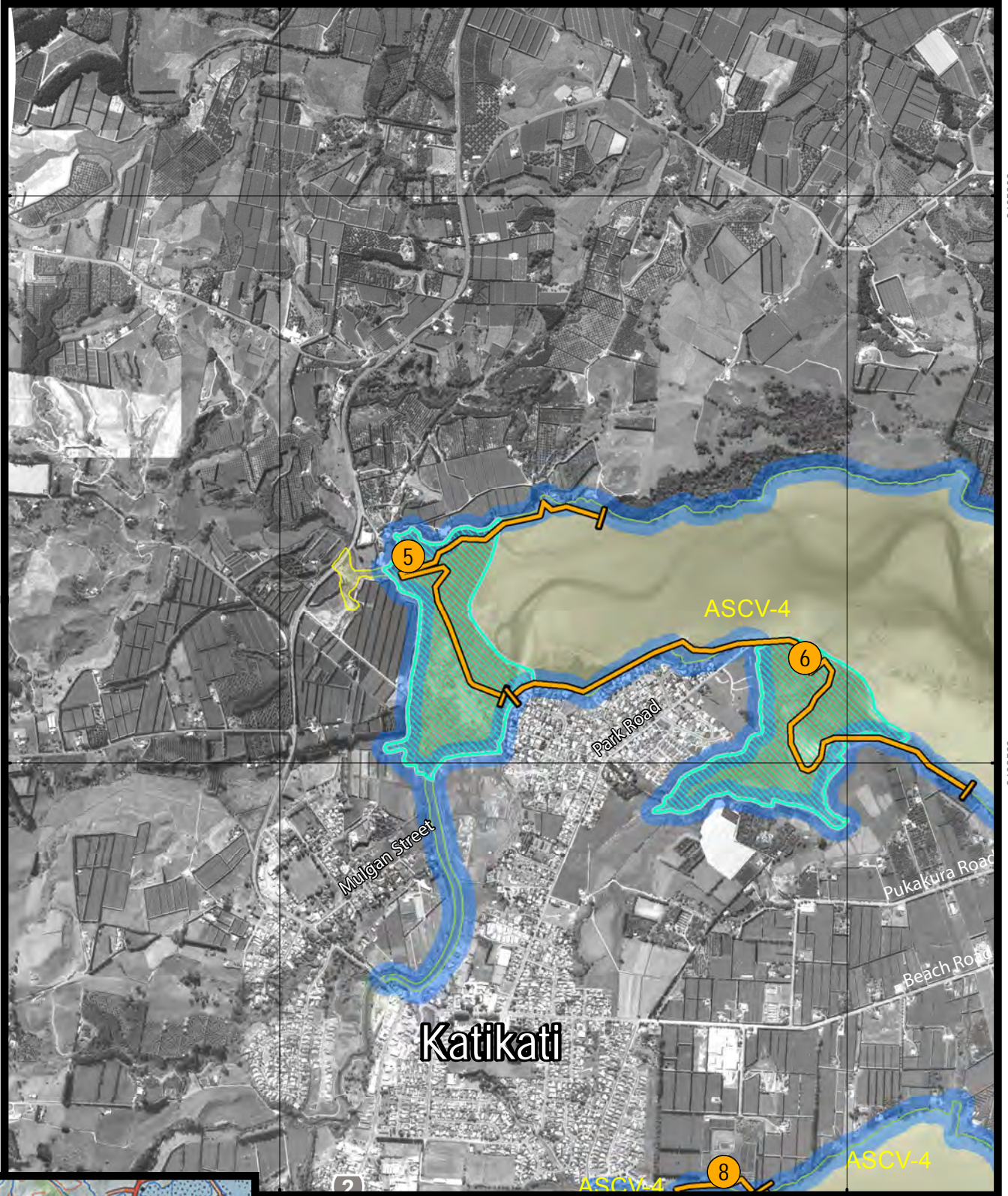
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
<b>Site 05</b>	<b>Uretara Upper</b>	<b>Risk ranking: 1</b>
<b>DESCRIPTION</b> Saltmarsh with mangrove edge, low energy, tidal up to Katikati.		
<b>Foreshore type/environmental value</b>	Sand and mudflat. Habitat (intertidal). All intertidal areas are identified in the Regional Coastal Plan as areas of significant conservation/ cultural value.	
<b>Map sheets</b>	<b>NZMS 260 Series</b> BC36 Katikati	<b>Chart Number</b> NZ 541
<b>Segments</b>	<b>TAU-000570, part TAU-00560</b>	
<b>At Risk Resources</b>		
<ul style="list-style-type: none"> <li>Banded rail (kataitai), bittern (matuku hūrepo), spotless crane (pūweto), marsh crane (koitareke) and North Island fernbird (matata). Pateke (brown teal) and scaup (pāpango)</li> <li>Whitebait (inanga) spawning areas</li> <li>Cultural sites: T13/528 (Midden - cockle and mudsnail (crushed and whole; sparse concentration))</li> </ul>		
<b>Notes</b>		
<ul style="list-style-type: none"> <li>Limited opportunity to protect the locality if oil threatens</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> <li>Oil that enters the low energy systems of this estuary will remain for some time. Oil will harm intertidal and sand flats habitat</li> </ul>		
<b>Access</b>		
Good vehicle access from SH 2 downstream. Foot access out into harbour.		

### Preferred Response Option Matrix

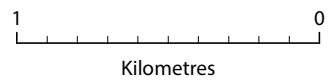
	<b>Most preferred</b>	<b>Least preferred</b>	<b>Feasibility</b>
Containment and Recovery	Medium		Unlikely
On water Recovery	Low		Unlikely, too shallow
Dispersant Application	Low	Requires escalation to Tier 3 and MNZ approval	Water depth won't allow
Shoreline Clean-up	Medium		Best access via private property
Natural Recovery	High		See NEBA



**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 5 Uretara Upper Oil Spill Management Plan



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