

## MCDA CRITERIA – RAA LANDSCAPE VALUES

Management Unit	Pathway	Pathway Description			Landscape values	
		Short term	Medium term	Long term	Score	Notes
<b>Management Unit 9A: Raumati (North of Wharemauku)</b>  <b>Erosion Unit</b>	1	Status Quo <sup>1</sup> and Community Education and Emergency Management <sup>4</sup>	Enhance existing protection structure <sup>2</sup> , Community Education and Emergency Management <sup>4</sup> (Enhance)	Re-establish the line with a setback sea wall <sup>9</sup> (Retreat & Protect)		<ul style="list-style-type: none"> <li>• In the short and medium terms, maintaining and reinforcing existing structures will continue to extend hard engineering structures within the context of existing modification.</li> <li>• In the longer term, reinstating a coordinated seawall back from the present day shoreline will continue hard engineering within this modified coastal context.</li> <li>• Limited existing or ongoing opportunities to restore natural character in context of ongoing modification.</li> </ul>
	2	Enhance existing protection structure <sup>2</sup> , Community Education and Emergency Management <sup>4</sup> (Enhance)	Sea wall <sup>12</sup> (Protect - Hard Engineering)	Re-establish the line with a setback sea wall <sup>9</sup> (Retreat & Protect)		<ul style="list-style-type: none"> <li>• In the short term, reinforcing existing seawalls will continue to extend hard engineering influences within the context of existing modification.</li> <li>• In the medium and longer terms, reinstating separate coordinated seawalls which are progressively setback from the present day shoreline will continue hard engineering within this modified coastal context.</li> <li>• Limited existing or ongoing opportunities to restore natural character in context of ongoing modification.</li> </ul>
	3	Enhance existing protection structure <sup>2</sup> , Community Education and Emergency Management <sup>4</sup> (Enhance)	Re-establish the line with a setback sea wall <sup>9</sup> (Retreat & Protect)	Enhance Sea wall <sup>12</sup> (Protect - Hard Engineering)		<ul style="list-style-type: none"> <li>• In the short term, reinforcing existing seawalls will continue to extend hard engineering influences within the context of existing modification.</li> <li>• In the medium and longer terms, reinstating and reinforcing a coordinated seawall will continue to modify the natural elements, patterns and process in this existing modified context.</li> <li>• Limited existing or ongoing opportunities to restore natural character in context of ongoing and increasing modification.</li> </ul>
	4	Enhance existing protection structure <sup>2</sup> , Community Education and Emergency Management <sup>4</sup> (Enhance)	Re-establish the line with a setback sea wall <sup>9</sup> & Dune reconstruction <sup>11</sup> (Retreat & Protect)	Beach renourishment <sup>10</sup> (Protect - Soft Engineering)		<ul style="list-style-type: none"> <li>• In the short term, reinforcing existing seawalls will continue to extend hard engineering influences within the context of existing modification.</li> <li>• In the medium term, reinstating a coordinated seawall back from the present day shoreline will continue hard engineering within this modified coastal context.</li> <li>• Restoring natural form and character of dunes would contribute to restoring natural character and combine nature based solutions alongside hard engineering forms in this modified coastal context.</li> <li>• In the longer term, beach renourishment will introduce some ongoing modification alongside ability to maintain ongoing natural form of beach profile and dunes.</li> <li>• Dunes and beach will occur in context of high levels of existing modification and appear more consistent with existing natural beach profile and form.</li> </ul>

	5	Sea wall <sup>12</sup> (Protect - Hard Engineering)	Enhance sea wall <sup>12</sup> (Protect - Hard Engineering)	Enhance sea wall <sup>12</sup> (Protect - Hard Engineering)		<ul style="list-style-type: none"><li>• Establishing and reinforcing a coordinated seawall will continue hard engineering influences within the context of existing modification.</li><li>• Limited existing or ongoing opportunities to restore natural character in context of increasing modification.</li></ul>
	6	Sea wall <sup>12</sup> (Protect - Hard Engineering)	Re-establish the line with a setback sea wall <sup>9</sup> (Retreat & Protect)	Enhance sea wall <sup>12</sup> (Protect - Hard Engineering)		<ul style="list-style-type: none"><li>• In the short term, establishing a new or replacement seawall will continue hard engineering within this modified coastal context.</li><li>• In the medium and longer terms, reinstating and reinforcing a coordinated seawall will continue within the context of existing modification.</li><li>• Limited opportunity to restore natural character in context of increasing modification.</li></ul>

<b>Management Unit 10A: Raumati (South of Wharemauku Stream)</b>  <b>Erosion Unit</b>	1	Status Quo <sup>1</sup> (Current new seawall as outlined in LTP) and Community Education and Emergency Management <sup>4</sup>	Enhance existing protection structure <sup>2</sup> , Community Education and Emergency Management <sup>4</sup> (Enhance)	Sea wall <sup>12</sup> (Protect - Hard Engineering)		<ul style="list-style-type: none"> <li>Establishing and reinforcing hard engineering will continue within the context of existing modification.</li> <li>Very limited ongoing opportunity to restore natural character in context of increasing modification.</li> </ul>
	2	Status Quo <sup>1</sup> (Current new seawall as outlined in LTP) and Community Education and Emergency Management <sup>4</sup>	Enhance existing protection structure <sup>2</sup> , Community Education and Emergency Management <sup>4</sup> (Enhance)	Re-establish the line with a setback sea wall <sup>9</sup> & Dune reconstruction <sup>11</sup> (Retreat & Protect)		<ul style="list-style-type: none"> <li>In the short and medium terms, maintaining and reinforcing a new seawall will continue a hard engineering structure within the context of an existing modified coastal environment.</li> <li>In the longer term, setting the wall back and enabling space for dune recreation provides some potential to reintroduce natural elements, patterns and process in this exiting modified context.</li> <li>Restoring natural form and character of dunes would contribute to restoring natural character and combine nature based solutions alongside hard engineering forms in this modified coastal context.</li> </ul>
	3	Status Quo <sup>1</sup> (Current new seawall as outlined in LTP) and Community Education and Emergency Management <sup>4</sup>	Sea wall <sup>12</sup> (Protect - Hard Engineering)	Enhance sea wall <sup>12</sup> (Protect - Hard Engineering)		<ul style="list-style-type: none"> <li>Establishing and reinforcing hard engineering will continue within the context of existing modification.</li> <li>Very limited ongoing opportunity to restore natural character in context of increasing modification.</li> </ul>
	4	Status Quo <sup>1</sup> (Current new seawall as outlined in LTP) and Community Education and Emergency Management <sup>4</sup>	Re-establish the line with a setback sea wall <sup>9</sup> (Retreat & Protect)	Enhance sea wall <sup>12</sup> (Protect - Hard Engineering)		<ul style="list-style-type: none"> <li>In the short term, establishing a new seawall will continue hard engineering within this modified coastal context.</li> <li>In the medium and longer term, setting sea wall back offers limited ongoing opportunity to restore natural character in context of increasing modification.</li> </ul>
	5	Status Quo <sup>1</sup> (Current new seawall as outlined in LTP) and Community Education and Emergency Management <sup>4</sup>	Re-establish the line with a setback sea wall <sup>9</sup> & Dune reconstruction <sup>11</sup> (Retreat & Protect)	Beach renourishment <sup>10</sup> (Protect - Soft Engineering)		<ul style="list-style-type: none"> <li>In the short term, reinforcing existing seawalls will continue to extend hard engineering influences within the context of existing modification.</li> <li>In the medium and longer terms, reinstating a coordinated seawall back from the present day shoreline will continue hard engineering within this modified coastal context.</li> <li>Restoring natural form and character of dunes would contribute to restoring natural character and combine nature based solutions alongside hard engineering forms in this modified coastal context.</li> <li>In the longer term, beach renourishment will provide some ongoing modification alongside ability to maintain ongoing natural form of beach profile and dunes</li> <li>Dunes and beach will occur in context of high levels of existing modification and appear more consistent with existing natural beach profile and form.</li> </ul>

Management Unit	Pathway	Pathway Description			Landscape values	
		Short term	Medium term	Long term	Score	Notes
Management Unit 9B: Raumati AA Inundation Unit	1	Status Quo <sup>1</sup> and Community Education and Emergency Management <sup>4</sup>	Enhance Existing Inundation Protection <sup>3</sup> and Community Education and Emergency Management <sup>4</sup> (Enhance)	Additional Hard Protection (e.g. Stopbanks <sup>13</sup> , Culverts <sup>14</sup> , Pumpstations <sup>15</sup> ) (Protect)		<ul style="list-style-type: none"><li>Existing and ongoing hard engineering structures occur within the context of existing modification.</li><li>In the longer term additional hard protection will increase the extent of modification evident in affected areas.</li></ul>
	2	Status Quo <sup>1</sup> and Community Education and Emergency Management <sup>4</sup>	Enhance Existing Inundation Protection <sup>3</sup> and Community Education and Emergency Management <sup>4</sup> (Enhance)	Flood proofing buildings and infrastructure <sup>5</sup> and/or Elevate floor levels of buildings <sup>7</sup> (Accommodate)		<ul style="list-style-type: none"><li>Existing and ongoing hard engineering structures occur within the context of existing modification.</li><li>In the longer term, adapting built form will have more limited impacts on natural elements, patterns and processes which may continue to operate.</li></ul>
	3	Status Quo <sup>1</sup> and Community Education and Emergency Management <sup>4</sup>	Additional Hard Protection (e.g. Stopbanks <sup>13</sup> , Culverts <sup>14</sup> , Pumpstations <sup>15</sup> ) (Protect)	Enhance New Inundation Protection <sup>3</sup> (Enhance)		<ul style="list-style-type: none"><li>Existing and ongoing hard engineering structures occur within the context of existing modification.</li><li>In the medium and longer term additional hard protection will increase the extent of modification evident in affected areas.</li></ul>