Unit A – Cliffs Options

Shortlisted Options
- Beach recharge
- Timber revetment
- Geotubes
- Rock sill
- Relocation of key assets
Unit A - Cliffs

- Preferred option Rock Armour at base of Cliffs
- Follow SMP 4 - No Active Intervention
- Use ground based LiDAR & Drone (aerial survey)
- Establish trigger point & implementation date
- Install Rock Armour likely around 2070+
Unit B Prom Options

- Do nothing
- Do minimum
- Maintain
- Sustain
- Enhance
Unit B Recommended Options

- **Short to Medium Term : Maintain** –
  - Routine maintenance & reinforced at end of predicted residual life
  - Maintain 1 in 200 flood defence

- **Medium to Long term : Sustain** –
  - Raise the crest of the rear floodwall to sustain the existing standard of protection against climate change
Unit B- Maintain Option
Unit B - Sustain Option

- Cross Section Showing the section of Unit B with the lowest existing crest height of seawave return wall. Location in section 1.
- Option assumes that crest levels of defences will be included in connection to the appraisal periods to coincide with the timing of furthering the council's Sustain Option.
- Crest level increases have been broadly estimated based on predicted sea level rise levels to be confirmed if this option is progressed.
- Injections: there is no seawave return wall in this section. The crest height to seawave the coastal option would increase the Tidal Surge and therefore section 1 will not need to be raised.
- Including a seawave return wall will be a more cost-effective solution.
- This option assumes that the existing seawave return wall will be utilised, with core of incorporating the extra height and associated loads of the level increase.
Unit B – Proposed Works

- Groynes – replace & repair (Year 1-4)
- Promenade – resurface 300m of concrete pads & joint reseal (Year 1-2)
- Seawall – reface (Sections D,E,F,G Year 15) (Sections A,B,C Year 35)
- Rear Flood Wall (Inc. gates) – increase height/gates replace (Year 35)
## RFCC – Local Levy Funding Bids

<table>
<thead>
<tr>
<th>Work</th>
<th>Timeline</th>
<th>BCKLWN Costs</th>
<th>RFCC Local Levy Application</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Groynes</td>
<td>1yr – 4yr</td>
<td>£50,000 p.a.</td>
<td>£50,000 p.a. match funding</td>
<td>Annual Cost £100,000 p.a.</td>
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<td><strong>Total = £400,000</strong> over 4 years</td>
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<tr>
<td>Cliff Monitoring</td>
<td>Annual</td>
<td>£6,000 p.a.</td>
<td>£6,000 p.a. match funding</td>
<td>Annual Cost £12,000 p.a.</td>
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<td>Survey</td>
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<td><strong>Total = £48,000</strong> over 4 years</td>
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<tr>
<td>Prom Resurface Sections D,E &amp; F (300m) &amp; Reseal Joints</td>
<td>1yr - 2yr</td>
<td>£215,000</td>
<td>£215,000 match funding</td>
<td>BCKLWN + LL = £430,000</td>
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<td>Arts Council grant = £100,000 (Public Realm)</td>
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<td><strong>Total = £530,000</strong></td>
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</tbody>
</table>
### Timeline 1/2

1. RFCC agreed Local Levy bids - Oct 2019
2. MMO/ EA / NE sign off - Dec 2019
3. Baseline cliff regression report - Dec 2019
4. Cabinet / MT to confirm funding - Feb 2020
5. Implement design work from - Jan 2020
6. Tenders issued - March to May 2020
Timeline 2/2

- Annual Cliff Survey: March 2020
- Select Contractor: June 2020 tbc
- EA National Appraisal Body: June/July tbc
- Cabinet / MT update: Summer 2020
- Groyne works start: Autumn 2020 tbc
- Prom resurface works: Autumn 2020 tbc