Minnis Bay is a sandy beach with some shingle deposits in the west which have been transported from Northern Sea Wall, the shingle beach to the west of the unit. The foreshore is sandy underlain by chalk wave cut platform.

**Survey outcome:**

There are no design levels for Minnis Bay.

<table>
<thead>
<tr>
<th>Survey type</th>
<th>Survey dates</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring to Spring</td>
<td>07/03/2017 - 26/03/2018</td>
<td>Most profiles indicate losses this year, with the most eastern profile, 4a01335 losing 25% of its CSA. Due to the small nature of this beach this percentage loss is exaggerated and only equates to -1m$^2$. Conversely, the most western profile, 4a01301, shows a significant gain of material, 13m$^2$ (39%).</td>
</tr>
<tr>
<td>Baseline to Spring</td>
<td>14/11/2003 - 26/03/2018</td>
<td>Six of the nine profiles have lost material since monitoring began in 2003. Profile 4a01324 is the only profile to show a significant gain of 14m$^2$ (15%).</td>
</tr>
<tr>
<td>Summer to Spring</td>
<td>12/06/2017 - 26/03/2018</td>
<td>Alternating profiles of accretion and erosion, all fairly low level changes. More significant gains are evident in profiles which have small shingle beaches towards the western end of the unit. Profile 4a01301 has continued to gain material with +11m$^2$ (31%), despite the fact that shingle was extracted from this area in March this year.</td>
</tr>
</tbody>
</table>
Current and Historic Beach Cross-Sectional Areas (m²) based on a datum of 0 mOD

Design Standard = 1:200 years
South East Regional Coastal Monitoring Programme
Profile Change Summary for Baseline 2003 to Spring 2018

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Additional overlaid information is copyright of Canterbury City Council 2018

Annual Change in Cross-Sectional Area (m2)

- **ACCRETION**
  - ±4% (4)
  - 5-15% (15)
  - 15-30% (10)
  - >30% (8)

- **erosion**
  - ±4% (10)
  - 5-15% (15)
  - 15-30% (10)
  - >30% (8)

- Less than 5% (no change)
South East Regional Coastal Monitoring Programme
Profile Change Summary for Spring 2017 to Spring 2018

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Annual Change in Cross-Sectional Area (m²)

ACCRETION

- >30%
- 15-30%
- 5-15%

EROSION

- >30%
- 15-30%
- 5-15%

Less than 5% (no change)
South East Regional Coastal Monitoring Programme
Profile Change Summary for Summer 2017 to Spring 2018

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Annual Change in Cross-Sectional Area (m²)

ACCRETION
- >30%
- 15-30%
- 5-15%
Less than 5% (no change)

EROSION
- >30%
- 15-30%
- 5-15%
Less than 5% (no change)
Interim Report - Appendix A: Explanation of the Historic Summary Chart

The historic changes in Cross-Sectional Area (CSA) for each profile are summarised by identifying the historic highest and lowest CSA alongside the current CSA for each profile:

**FIGURE A1: PRESENTATION OF STANDARD OF PROTECTION AND TRIGGER LEVELS**

(A) HISTORIC VARIATION OF BEACH LEVELS (CSA)

(B) SUMMARY OF DATA, PINK BAR – CURRENT BEACH LEVEL, BLACK BARS – HISTORIC HIGH AND LOW
Appendix B: Profile Change Summary

Changes along individual profiles for a range of timeframes are summarised in a series of thematic maps on the previous pages. The maps show the location of each beach profile, superimposed on aerial photography (note the lines have been extended for clarity). The name of the profile, the percentage change of beach material and the change in $m^2$ has been including upon the line, which is illustrated in Figure B1.
Appendix C: Recycling Logs

Maintenance Log: [Northern Sea Wall]

☑ Deposition ☑ Extraction ☑ Reprofiling

<table>
<thead>
<tr>
<th>Dates</th>
<th>20/03/2017 to 31/03/2017</th>
<th>Logged by</th>
<th>Rebecca Creed</th>
</tr>
</thead>
</table>

**Description of Works/Notes**

Material was transported from Minnis Bay to Northern Sea Wall to replenish levels and help cover up exposed blockwork in the bays.

**Description of Frontage**

<table>
<thead>
<tr>
<th>Before</th>
<th>After</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large accumulation of shingle on sea wall on top of beach.</td>
<td>Shingle has been extracted and deposited back into the Northern Sea Wall unit.</td>
</tr>
</tbody>
</table>

**Quantify extraction/deposition (Note: If volume unknown conversion used is 1 tonne: 1.8 m³ of material)**

<table>
<thead>
<tr>
<th>Profile/Groyne No.</th>
<th>Start and End</th>
<th>Deposition/Extraction/Re-profiling</th>
<th>Quantity (m³)</th>
<th>Lorry Capacity (m³)</th>
<th>Number of lorry loads</th>
<th>Material Description (click in cell for drop down)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4a01304 &amp; 4a01308</td>
<td>Extraction</td>
<td>1,800</td>
<td></td>
<td></td>
<td>90</td>
<td>Shingle</td>
</tr>
<tr>
<td>4a01308 &amp; 4a01314</td>
<td>Extraction</td>
<td>1,500</td>
<td></td>
<td></td>
<td>74</td>
<td>Shingle</td>
</tr>
</tbody>
</table>

Total: 3,300 m³