**How has the coastal management strategy at ‘La Gravette’ affected the beach profile and sediment composition?**

**Managed Beach**





**Unmanaged beach**





**Beach Profile**

Location: La Gravette (Managed beach)

|  |  |  |  |
| --- | --- | --- | --- |
| **Measurement** | **Site A** | **Site B** | **Site C** |
| **1** |  |  |  |
| **2** |  |  |  |
| **3** |  |  |  |
| **4** |  |  |  |
| **5** |  |  |  |
| **6** |  |  |  |
| **7** |  |  |  |
| **8** |  |  |  |
| **9** |  |  |  |
| **10** |  |  |  |
| **11** |  |  |  |
| **12** |  |  |  |
| **13** |  |  |  |
| **14** |  |  |  |
| **15** |  |  |  |

Measurements are taken in degrees°

You will need to measure the width of the beach first and then decide how many meters you will divide up each measurement into. **[\_\_\_\_\_\_\_\_\_\_\_\_\_]**

**Observations:** (as you are taking the measurements you need to make some observations about the morphology of the beach, are there any large anomalies, why do you think they have occurred?)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Location: La Joliette (Unmanaged beach)

|  |  |  |  |
| --- | --- | --- | --- |
| **Measurement** | **Site A** | **Site B** | **Site C** |
| **1** |  |  |  |
| **2** |  |  |  |
| **3** |  |  |  |
| **4** |  |  |  |
| **5** |  |  |  |
| **6** |  |  |  |
| **7** |  |  |  |
| **8** |  |  |  |
| **9** |  |  |  |
| **10** |  |  |  |
| **11** |  |  |  |
| **12** |  |  |  |
| **13** |  |  |  |
| **14** |  |  |  |
| **15** |  |  |  |

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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Wave Count**

Location: La Gravette (Managed beach)

|  |  |  |  |
| --- | --- | --- | --- |
| 1min | **Site A** | **Site B** | **Site C** |
| **1st** |  |  |  |
| **2nd** |  |  |  |
| **3rd** |  |  |  |
| **4th** |  |  |  |
| **5th** |  |  |  |

**Wave Count**

Location: La Joliette (Unmanaged beach)

|  |  |  |  |
| --- | --- | --- | --- |
| 1min | **Site A** | **Site B** | **Site C** |
| **1st** |  |  |  |
| **2nd** |  |  |  |
| **3rd** |  |  |  |
| **4th** |  |  |  |
| **5th** |  |  |  |

**Wave Height**

Location: La Gravette (Managed beach)

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Site A** | **Site B** | **Site C** |
| **1st** |  |  |  |
| **2nd** |  |  |  |
| **3rd** |  |  |  |
| **4th** |  |  |  |
| **5th** |  |  |  |

Using the 1m ruler (if wet dry it) between waves place ruler into water until it is touching the sand (take note of the measurement) then when the next wave comes in and washes up the ruler take note of the wetted part of the ruler. The difference between the original depth and the wetted section after the wave has passed is the wave height.

**Observations** (take note of anything that might affect the wave height)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Wave Height**

Location: La Joliette (Unmanaged beach)

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Site A** | **Site B** | **Site C** |
| **1st** |  |  |  |
| **2nd** |  |  |  |
| **3rd** |  |  |  |
| **4th** |  |  |  |
| **5th** |  |  |  |

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**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Sediment**

To compare sediment type you need to take photographic evidence of the sediment on the beaches. You will need to show how one is a shingle and the other sand. You will take 3 Photographs in the center location.

Photos Tick once completed:

|  |  |  |
| --- | --- | --- |
|  | Managed Beach | Un-managed Beach |
| Lower |  |  |
| Mid |  |  |
| Upper |  |  |

**Beach width**

La Gravette (Managed beach)

|  |  |  |  |
| --- | --- | --- | --- |
|  | Site A | Site B | Site C |
| Width (m) |  |  |  |

Location: La Joliette (Unmanaged beach)

|  |  |  |  |
| --- | --- | --- | --- |
|  | Site A | Site B | Site C |
| Width (m) |  |  |  |

**Long Shore Drift**

Location: La Gravette (Managed beach)

**Round**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 5min | **Site A** | | **Site B** | | **Site C** | |
|  | Distance | Direction | Distance | Direction | Distance | Direction |
| **1st** |  |  |  |  |  |  |
| **2nd** |  |  |  |  |  |  |
| **3rd** |  |  |  |  |  |  |

**Cylindrical**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 5min | **Site A** | | **Site B** | | **Site C** | |
|  | Distance | Direction | Distance | Direction | Distance | Direction |
| **1st** |  |  |  |  |  |  |
| **2nd** |  |  |  |  |  |  |
| **3rd** |  |  |  |  |  |  |

Make a record of direction of movement eg compass bearing

Measurements need to be recorded in units of distance (chose the most appropriate)

**However!!**

Use the same units for all sites

**Observations:** (as you are taking the measurements you need to make some observations about factors that might affect the readings eg wind, waves and possible outside interference such as a boat going past)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Long Shore Drift**

Location: La Joliette (Unmanaged beach)

**Round**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 5min | **Site A** | | **Site B** | | **Site C** | |
|  | Distance | Direction | Distance | Direction | Distance | Direction |
| **1st** |  |  |  |  |  |  |
| **2nd** |  |  |  |  |  |  |
| **3rd** |  |  |  |  |  |  |

**Cylindrical**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 5min | **Site A** | | **Site B** | | **Site C** | |
|  | Distance | Direction | Distance | Direction | Distance | Direction |
| **1st** |  |  |  |  |  |  |
| **2nd** |  |  |  |  |  |  |
| **3rd** |  |  |  |  |  |  |

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