

Phase 1 - Environmental Enhancements

As part of this scheme we plan to undertake a number of environmental enhancements to the beach

Current vegetated shingle along Worthing's beaches

There are many plants growing on Worthing's shingle coastline, which is a habitat referred to as vegetated shingle. There are a number of species, but the main ones which reside on Worthing's beaches are Orache, Sea Kale, Curled Dock and Red Valerian

To allow these works to be undertaken, some of the vegetated shingle plants which have established themselves by the groynes will be temporarily removed. Upon completion of the works the plants will be replaced. They will then be monitored to ensure they have settled into the new location. If they do not survive the area will be seeded to allow new plants to grow.



Sea Kale (*Crambe maritima*) which has large waxy leaves and in the spring/summer has a mass of white creamy flowers.
Sea Kale is classed as pioneer community and found on stable sections of beaches.



Red Valerian (*Centranthus ruber*) comes in both pink and white varieties. Red Valerian is an invasive species and takes over areas of the beach and stifles the growth of other plants.

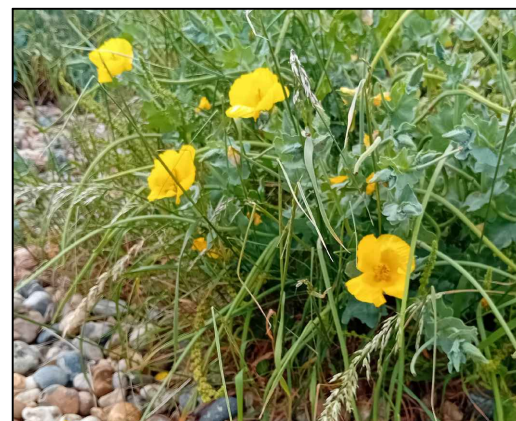


Curled Dock (*Rumex crispus*)

Proposed vegetated shingle works

As Red Valerian is on the Sussex invasive non-native species list as it stifles the growth of other plants, we will be removing sections of the Red Valerian and replacing it by growing a number of plants using seeds collected from nearby sources or sourced from the Millennium Seed Bank at Wakehurst (Kew Gardens) to ensure local genetic diversity is retained.

This will enhance the flora and fauna along this section of frontage and attract rare invertebrates which have been recorded close to the site.



Yellow Horned Poppy (*Glaucium flavum*)



Kidney Vetch (*Anthyllis Vulneraria*)

Proposed species of plants to be sourced:

- Kidney vetch (*Anthyllis vulneraria*)
- Viper's-bugloss (*Echium vulgare*)
- Sea-beet (*Beta vulgaris*)
- Purple toadflax (*Linarea purpurea*)
- Yellow Horned Poppy (*Glaucium flavum*)
- Bittersweet (*Solanum dulcamara*)



Sea-beet (*Beta vulgaris*)



Viper's Bugloss (*Echium vulgare*)