

Tidal Lagoon Swansea Bay

Landscaping Scheme

DCO Requirement 7

April 2020

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1 Introduction Work 7a and associated construction.

1.1 The TLSB project

- 1.1.1 Tidal Lagoon Swansea Bay (TLSB) will be the world's first purpose built tidal energy lagoon. The generating station will have an installed capacity of 320 megawatt (MW) and will enclose part of Swansea Bay, from the eastern side of the River Tawe to the eastern edge of the new Swansea University Bay Campus. In total the seawall will form an approximately 9.5km-long, U-shape which will encompass approximately 11.5km² of the seabed, foreshore and intertidal area of Swansea Bay.
- 1.1.2 TLSB made an application to the Planning Inspectorate on 7 February 2014 for a Development Consent Order (DCO) for a tidal lagoon (the TLSB Project) in Swansea Bay, South Wales. Examination of the application closed on 10 December 2014 and development consent was granted by the Secretary of State for Business, Energy and Industrial Strategy (SoS) on 9 June 2015.

1.2 DCO Requirement

- 1.2.1 The Landscaping Scheme is a Requirement of the DCO, under Requirement 7 and as such has been prepared by TLSB for approval by the relevant planning authorities in accordance with the DCO.
- 1.2.2 DCO Requirement 7 includes elements that are relevant to the City and County of Swansea Council (CCSC) therefore, this Landscaping Scheme is provided to CCSC for approval.
- 1.2.3 This paper has been prepared to allow partial discharge of DCO Requirement 7 - Provision of Landscaping 7 (1), 7 (2) (f) - in relation to:
- proposed initial Phase 1 works only, namely Work 7a (with reference to Part 1A);
 - a), temporary construction works, including workshops and stores, working areas, laydown areas, construction sites, and vehicle parking facilities;
 - f) to the extent shown on the demolition plan, the alteration, removal, clearance, refurbishment, reconstruction, decommissioning and demolition of any buildings and structures within the Order limits;
 - h) lighting columns and lighting;
 - i) safety / emergency points.
- 1.2.4 The proposed approach for restoration of any areas disturbed by the 7a works is to allow natural regeneration of grass/ruderal habitat from local native seed material within existing site-won topsoil, in line with DCO Requirement 7 (3) (a) and (b).
- 1.2.5 The existing coastal grassland is adapted to the location and of local provenance. This approach will ensure that species that are not found locally are not introduced and are appropriate to the area.

Given likely disturbance that will be associated with later phases, it is not proposed to take forward landscape works to other areas of the site until the design of future phases has been confirmed. DCO Requirement 7 is reproduced below for reference:

Provision of landscaping

7.—(1) The authorised development is not to be commenced until a detailed landscaping scheme and associated working programme for the authorised development reflecting the principles of the design and access statement has been submitted to and approved by the relevant planning authorities.

(2) The landscaping scheme must include details of—

- (a) works to existing wave protection walls;*
 - (b) the location, number, species, size and planting density of proposed planting;*
 - (c) a planting design on and in the vicinity of Works No. 6a and 6b within the Order land;*
 - (d) any importation of materials and other operations to ensure plant establishment;*
 - (e) proposed finished ground levels;*
 - (f) planting and hard landscaping within the operational areas of the authorised development and the vehicular and pedestrian access, parking and circulation areas;*
 - (g) the new beaches, saltmarshes and dunescapes to be constructed as part of the authorised development, including the method of construction, plant types, sizing and spacing, and the measures proposed for maintenance of areas;*
 - (h) minor structures such as signage, refuse or other units and furniture;*
 - (i) signage and cycle parking facilities on the access roads proposed as part of the authorised development;*
 - (j) proposed and existing functional services above and below ground, including power and communications cables and pipelines, manholes and supports;*
 - (k) the specified standard to which the works will be undertaken maintained and managed;*
 - (l) the proposed term for which long term management is to be undertaken pursuant to Requirement 8(4); and*
 - (m) a timetable for the implementation of all hard and soft landscaping works.*
- (3) All planting undertaken pursuant to the landscaping scheme is to comprise—*
- (a) species that would also enhance biodiversity and connect habitats; and*
 - (b) stock of local provenance, where available.*
- (4) The details to be submitted under sub-paragraph (2) must not include any development or works that are not within the descriptions of the authorised development contained in this Schedule.*

2 Approach

- 2.1.1 Topsoil from coastal grassland areas that is free of pernicious weeds and suitable for re-use is to be stripped and stored separately from other materials and be clearly labelled/identified for re-use. Soil will be stored in stockpiles less than 2m in height to maintain soil structure, seedbank and associated fauna. Soil material will then be placed to restore areas on completion of the 7a works and other elements proposed within Phase 1.
- 2.1.2 The main area that is likely to be disturbed is the area around the proposed security cabin at the site entrance/eastern end of the access road. The extent of Works 7a is shown on the following plans:
- TLSB-ATK-03-XX-SK-D-00002_P01 – Sheet 1 of 4
 - TLSB-ATK-03-XX-SK-D-00003_P01 – Sheet 2 of 4
 - TLSB-ATK-03-XX-SK-D-00004_P01 – Sheet 3 of 4
 - TLSB-ATK-03-XX-SK-D-00005_P01 – Sheet 4 of 4
 - TLSB-ATK-03-XX-SK-D-00006_P01
- 2.1.3 The area by the proposed security cabin is likely to experience foot traffic and the occasional overrun by vehicles and will therefore need to be hard wearing and resilient. It is also likely to experience some salt spray, especially during windy weather. The area immediately adjacent to the security cabin and verges running alongside the access road will continue to be mown and managed as they are currently.
- 2.1.4 Where kerbs are installed in relation to entrance splays for laydown/compound areas or works to the access road, topsoil will be re-used to the rear of kerbs to make good.
- 2.1.5 No landscape treatment is proposed for the laydown/storage areas.
- 2.1.6 The existing coastal grassland vegetation that runs along the Dock road to the south of the proposed internal access road (between the access road and the sea wall) will be retained. No works are proposed in this area in Phase 1 that would affect this habitat.
- 2.1.7 It should be noted that it may take a full growing season for native vegetation to successfully re-establish through natural regeneration where soil has been disturbed.

3 Proposed seed mix

- 3.1.1 If any seeding is required, it is proposed to use grass seed mix PM 90 Coastal (see below).
- 3.1.2 This seed mix is suitable for areas that are likely to experience heavy foot traffic and occasional overrun by vehicles. It will therefore need to be hard wearing and resilient. The proposed mix is also able to cope with salt spray, especially during windy weather. It is anticipated that in the longer-term area that are seeded would be close mown.

%	Cultivar	Species
20%	DOUBLE	4turf Tetraploid perennial ryegrass
25%	SAMANTA	Slender creeping red fescue
22%	MAXIMA	Strong creeping red fescue
20%	DUMAS 1	Hard fescue
10%		Saltmarsh grass
3%	KROMI	Creeping bent

Sowing rate:	35g/m²
Overseeding:	25g/m²
Mowing height:	down to 12mm

This mix is a blend of supplied by:

Supplier:

DLF Inkberrow & Head Office
 Thorn Farm
 Inkberrow
 Worcestershire
 WR7 4LJ

Tel: 01386 793135

Email: amenity@dlf.co.uk

<https://www.dlf.co.uk/amenity-grass-seed/masterline/dlf-uk/masterline/masterline-landscape-mixtures/pm-90-coastal-prod801>

See accompanying product data sheet.

4 Specification

- 4.1.1 Ground preparation, cultivation, sowing, aftercare and maintenance for any seeding operations required all to be in accordance with BS4428:1989 Code of Practice for General Landscape Operations (excluding hard surfaces), seed supplier's recommendations and best horticultural practice.