

# Tidal Lagoon Swansea Bay

Construction Environmental Management Plan Appendix H

Nuisance Dust Survey

DCO Requirement 5

Works 7a

May 2020

|                    |                              |
|--------------------|------------------------------|
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# 1 Introduction

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## 1.1 The development

- 1.1.1 Tidal Lagoon Swansea Bay (TLSB) will be the world's first purpose built tidal energy lagoon. The generating station will have a nominal rated capacity of 320 Mega Watts (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 (SUBC). In total the lagoon will form an approximately 9.5km-long, U-shaped seawall which will encompass approximately 11.5km<sup>2</sup> of the seabed and intertidal area of Swansea Bay.
- 1.1.2 TLSB made an application for development consent to the Planning Inspectorate on 7 February 2014 for a Development Consent Order (DCO) for the construction and operation of a tidal lagoon (the Project) in Swansea Bay, South Wales. Examination of the application closed on 10 December 2014 and the DCO was made by the Secretary of State (SoS) on 9 June 2015.
- 1.1.3 The Dust Monitoring Scheme is a requirement of the Construction Environmental Management Plan (CEMP) and as such has been prepared by TLSB for approval by the relevant planning authorities.
- 1.1.4 This plan is applicable to construction activity across the development site in its entirety.
- 1.1.5 The purpose of this document is to set out the locations for the dust survey, the technique to be used and means of reporting.

## 1.2 DCO requirement

- 1.2.1 The DCO requirement to which the enclosed documents are submitted pursuant to is as follows:

*5.—(1) No authorised development are to commence until a CEMP substantially in accordance with the outline Construction Environmental Management Plan, has been submitted to and approved by the relevant planning authorities in consultation with Natural Resources Wales.*

*(2) All construction work must be carried out in accordance with the CEMP approved under sub-paragraph (1).*

*(3) No operation of the authorised development is to commence until an OEMP, substantially in accordance with the outline Operational Environmental Management Plan, has been submitted to and approved by the relevant planning authorities.*

*(4) Operation of the authorised development must be in accordance with the approved OEMP.*

*(5) The CEMP and OEMP must include, but not be limited to, mechanisms for the provision and implementation of the following mitigation matters—*

*(a) lagoon wardens during the operational phase, whose responsibilities include (but are not limited to) securing the delivery of the OEMP and managing public access;*

*(b) a Reptile Strategy which provides for their habitat retention and management, and where necessary, their translocation to suitable receptor sites;*

*(c) access for otters, which is to be maintained at all times between the docks, River Tawe and the coastline;*

*(d) providing that reversing alarms which are not audible beyond the development site boundaries must be fitted on any Heavy Goods Vehicles (HGVs) and mobile plant that are active during the construction phase during hours of darkness, weekends (Saturdays and Sundays) and bank holidays.*

1.2.2 The purpose of this document is to set out the dust nuisance monitoring protocols that are relevant to Phase 1 construction activity i.e. works element 7a and in connection with 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. Details of Construction Phasing can be found in the Construction Phasing Scheme DCO Requirement 03.

1.2.3 Due to the limited nature of the works proposed under Phase 1, on-going dust surveys at surrounding external locations are not proposed. However, if any complaints regarding dust generation are received these will be investigated as set out below and appropriate mitigation measures developed.

## 2 Legislation

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2.1.1 The following guidelines will be complied with at all times:-

- The Control of Pollution Act 1974 Part IV;
- The Health & Safety at Work Act 1974;
- The Clean Air Act 1993;
- The Environmental Protection Act 1990;
- HSE PPG6; and
- “Guidance on Air Quality Monitoring in the Vicinity of Demolition and Construction Sites” published by Institute of Air Quality Management (IAQM).

### 3 Dust sources

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#### 3.1 Land based activities with potential to generate dust

- 3.1.1 Transportation of men and materials – During working hours there will be site-based traffic movements as well as deliveries to site.
- 3.1.2 Earthworks and general construction activities including formation and use of temporary access roads including stock piling of materials.
- 3.1.3 Demolition of existing buildings.

## 4 Future monitoring locations

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- 4.1.1 Due to the limited nature of the works 7a proposed under Phase 1, no on-going external dust monitoring is proposed.
- 4.1.2 Indicative locations suitable for future monitoring (Phase 2 and beyond) have been identified through discussion with The City and County of Swansea Council (CCSC) and Neath Port Talbot County Borough Council (NPTCBC). See Appendix A for locations. These monitoring points have been chosen at strategic locations that are near residential areas. Exact monitoring locations and approach will be agreed with The City and County of Swansea Council (CCSC) and Neath Port Talbot County Borough Council (NPTCBC) prior to Phase 2 works being carried out.
- 4.1.3 Onsite monitoring will be carried out by the contractor in accordance with the Machinery and Dust method Statement, Appendix I of the Construction Environmental Management Plan. The Machinery and Dust Method Statement covers onsite activities such as the stock piling of materials and laydown areas.

## 5 Reporting

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- 5.1.1 It is essential that open communication channels are established prior to, and during the construction phase. The public will be informed how they can obtain information relating to the Project generally and the construction phases through communications such as site notices, press releases, the Project website, newsletters to residents etc. The public will be made aware of the contact details for any complaints. These details will include the person, contact number, postal and email addresses.
- 5.1.2 As members of the public may be more inclined to contact the Environmental Departments of CCSC and Swansea Bay Port Health Authority (SBPHA) rather than the nominated Environmental Liaison Officer (ELO) for the project, a single point of contact will be nominated within the CCSC, NPTCBC and SBPHA Environmental team who will liaise with the ELO.
- 5.1.3 A shared schedule of complaints will be produced and shared on an agreed format between CCSC, NPTCBC, SBPHA and the ELO ensuring that no complaints go unanswered. Complaints relating to construction including dust, will be recorded and reported, providing that the individual:
- identifies themselves;
  - provides a method of communication by which they wish to receive a response;
  - makes a complaint that can be addressed; and
  - behaves in a reasonable manner.

## 6 Dust monitoring exceedance procedures

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6.1.1 In the event that there should be a complaint regarding dust generation, the following procedures will be followed:

- The body that receives the complaint will upload details onto the shared schedule;
- Other bodies (including TLSB) will be notified that a complaint has been made;
- The cause will be established;
- Contractor implements changes to procedures/mitigation (such as water suppression) if necessary;
- Report back to CCSC, NPTCBC and SBPHA as relevant, to advise actions carried out on site;
- Report findings and action to individual; and
- Close out on schedule.

Appendix A – Map showing proposed locations for future dust monitoring



TLSB Noise & Dust Sites

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Pollution Control Division  
Place Department  
City & County of Swansea

