

HORIZON

NUCLEAR POWER



Wylfa Newydd Project

8.10 Park and Ride sub-CoCP

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Executive Summary

This document forms the sub-CoCP for the Park and Ride within the Wylfa Newydd Project. It covers the construction, operation and decommissioning phases of the Park and Ride, as these activities take place during the construction phase for the Power Station and identifies site-specific measures to mitigate construction works.

1 Introduction

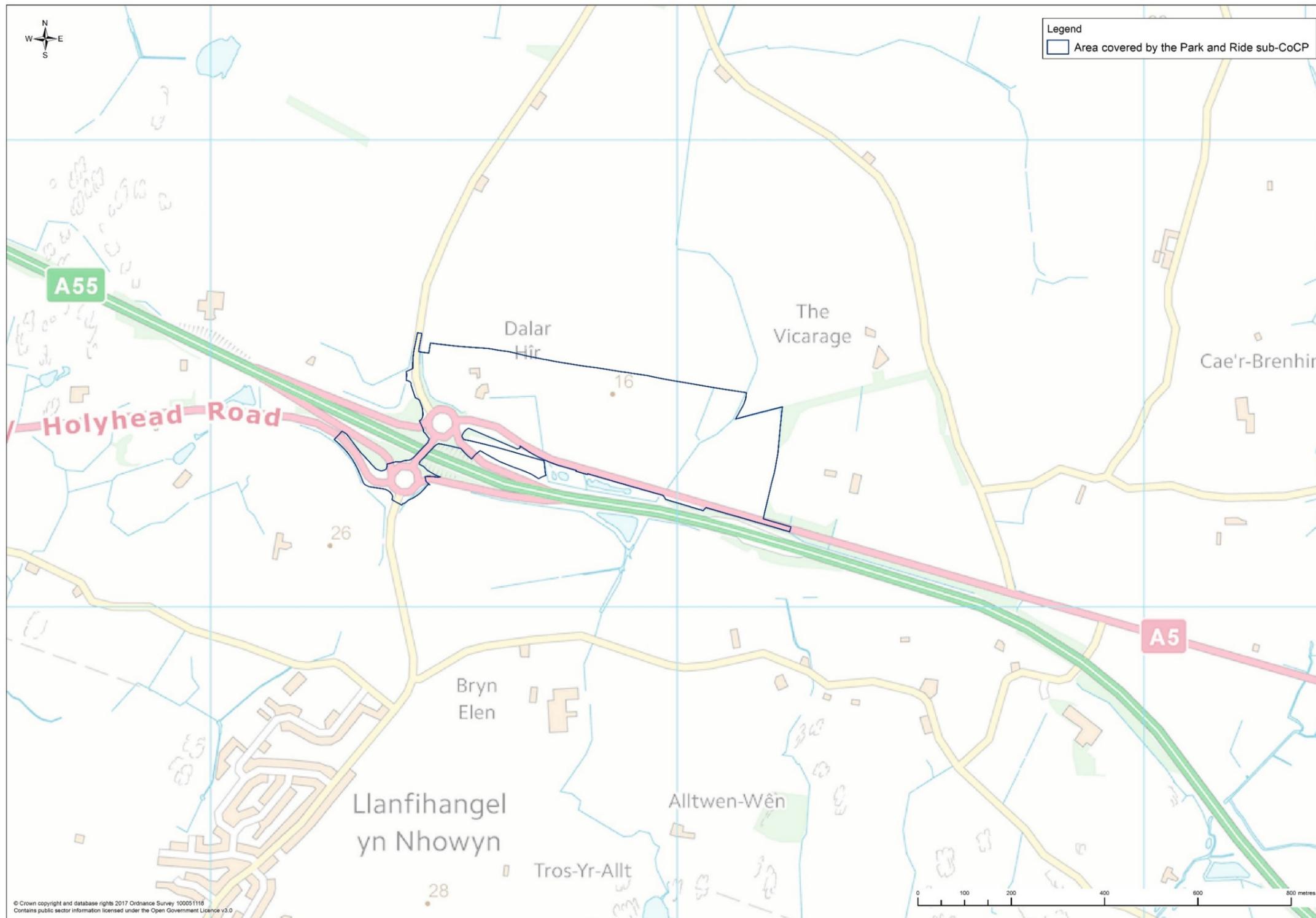
- 1.1.1 As the Wylfa Newydd Project covers a number of discrete locations, the overarching Wylfa Newydd Code of Construction Practice (CoCP) (Application Reference Number: 8.6) covers project-wide aspects of the Wylfa Newydd Project regardless of site/location. Sub-CoCPs are provided for each location and underpin the Wylfa Newydd CoCP (Application Reference Number: 8.6). Sub-CoCPs provide only the requirements relevant to that location.
- 1.1.2 This document forms the sub-CoCP for the Park and Ride at Dalar Hir (hereafter referred to as Park and Ride) within the Wylfa Newydd Project. It covers the construction, operation and decommissioning phases of the Park and Ride, as these activities take place during the construction phase for the Power Station.
- 1.1.3 A plan of the location of the Park and Ride site is shown in figure 1-1.
- 1.1.4 The principal works associated with this sub-CoCP are as follows:
- development of site compound;
 - construction of perimeter construction fencing and permanent fencing;
 - site clearance;
 - soil stripping, storage and re-use;
 - excavations;
 - drainage and utilities works;
 - construction and landscaping of the Park and Ride;
 - operation of the Park and Ride; and
 - decommissioning of the Park and Ride.
- 1.1.5 Site-specific measures to mitigate the effects of the construction works are detailed within this sub-CoCP. Where the requirements of construction practice are covered adequately by the Wylfa Newydd CoCP (Application Reference Number: 8.6), those requirements are not repeated in this sub-CoCP. Therefore, where no site-specific measures are specified here, reference should be made to the Wylfa Newydd CoCP (Application Reference Number: 8.6). In the event of a conflict between the Wylfa Newydd CoCP (Application Reference Number: 8.6) and this sub-CoCP, the commitments in this sub-CoCP prevail.
- 1.1.6 This sub-CoCP sets out the site-specific requirements to be complied with, covering the following aspects of the Wylfa Newydd Project construction:
- communications and community and stakeholder liaison;
 - general site management;
 - traffic and transport;
 - public access management;
 - air quality;
 - noise and vibration;

- waste and materials management (including soils and land contamination);
- water management;
- ecology and landscape management; and
cultural heritage.

1.1.7 This Park and Ride sub-CoCP should be read together with the Wylfa Newydd CoCP (Application Reference Number: 8.6) to understand the full suite of controls for the Park and Ride.

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Figure 1-1 Park and Ride site boundary



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2 Approach to environmental management

2.1 General

- 2.1.1 This section is included here to maintain the structure of this sub-CoCP in accordance with the Wylfa Newydd CoCP (Application Reference Number: 8.6), in order to enable easier cross-referencing between the two documents and other sub-CoCPs. Refer to section 2 of the Wylfa Newydd CoCP (Application Reference Number: 8.6) for full information on Horizon's approach to environmental management which is consistent across the Wylfa Newydd Project.

3 Communications and community/stakeholder liaison management strategy

3.1 General

- 3.1.1 Horizon's communications and community/stakeholder liaison management is based on the requirements set out in the Wylfa Newydd CoCP (Application Reference Number: 8.6) and any further controls set out in this sub-CoCP.
- 3.1.2 The general mitigation controls to be implemented for communications and community/stakeholder liaison are described in section 3 of the Wylfa Newydd CoCP (Application Reference Number: 8.6).
- 3.1.3 There are no further site-specific controls in relation to communications and community/stakeholder liaison for this sub-CoCP.

4 General site management strategy

4.1 General

- 4.1.1 Horizon's site management is based on the requirements set out in the Wylfa Newydd CoCP (Application Reference Number: 8.6) and any further controls set out in this sub-CoCP.
- 4.1.2 The general mitigation controls to be implemented for site management are described in section 4 of the Wylfa Newydd CoCP (Application Reference Number: 8.6).
- 4.1.3 In addition, the measures below outline specific measures to be implemented during construction of the Park and Ride.

4.2 Working hours

- 4.2.1 Normal working hours for the construction and decommissioning of the Park and Ride will be:
- Monday to Friday: 08:00 to 18:00; and
 - Saturday: 08:00 to 13:00.
- 4.2.2 No works are proposed during the evening periods or during Saturday afternoons, Sundays, or Bank Holidays.
- 4.2.3 If construction work is required at these sites outside these hours, this will be identified by Horizon and justified in the Section 61 Control of Pollution Act 1974 (CoPA) application which will be made to the Isle of Anglesey County Council (IACC) in advance of the works.
- 4.2.4 The main hours of Park and Ride operation will be from 06:00 to 20:00, but the facility will be in operation up to 24 hours a day, seven days a week, during the peak construction period of the Power Station.

4.3 Site lighting

Operation

- 4.3.1 Lighting of the Park and Ride during operation will be to the minimum lux level required in accordance with 'Park Mark' standards and BS 5489-1:2013 – Code of practice for the design of road lighting [RD1].

4.4 Promotion of health and well-being

Operation

- 4.4.2 During operation of the Park and Ride, Horizon will provide information at waiting areas to promote health and well-being, including occupational health and hygiene and good worker conduct.

4.5 Site decommissioning

- 4.5.1 Once no longer required, and on the basis that no subsequent planning permission is granted for a future use, the Park and Ride site would be decommissioned and returned to agricultural land use. Reinstatement will seek to restore the original field pattern, and would be in accordance with a reinstatement environmental management plan.
- 4.5.2 If decommissioning takes place in one phase, it is expected that this would take 12 months. Phased decommissioning may be possible. Key decommissioning activities would include but are not limited to:
- formation of demolition site compound;
 - demolition plant mobilisation and traffic movements;
 - demolition and removal of temporary structures and services; and
 - breaking up of concrete and surfacing if required.
- 4.5.3 Buried utilities would not be removed.

5 Traffic and transport management strategy

5.1 General

- 5.1.1 Horizon's traffic and transport management strategy is based on the requirements set out in the Wylfa Newydd CoCP (Application Reference Number: 8.6) and any further controls set out in this sub-CoCP.
- 5.1.2 The general mitigation controls to be implemented for traffic and transport are described in section 5 of the Wylfa Newydd CoCP (Application Reference Number: 8.6).
- 5.1.3 In addition, the measures below outline specific measures to be implemented during operation of the Park and Ride.

5.2 Shuttle buses

- 5.2.1 Shuttle buses will be provided between the Park and Ride and construction sites at the Main Power Station Site, the Off-site Power Station Facilities and Logistics Centre, A5025 Off-line Highways Improvements to reduce the number of private vehicle movements to and from the Wylfa Newydd Development Area.
- 5.2.2 There are no further site-specific mitigation measures for the Park and Ride relating to traffic and transportation, other than those contained in other sections of this document relating to specific aspects of traffic and transportation (such as air quality).

5.3 Access arrangements

- 5.3.1 Automatic Number Plate Recognition (ANPR) scan will be used at the Park and Ride entrance to ease traffic flows and ensure the vehicles can enter and exit in a timely manner.

6 Public access management strategy

6.1 General

- 6.1.1 Horizon's public access management is based on the requirements set out in the Wylfa Newydd CoCP (Application Reference Number: 8.6) and any further controls set out in this sub-CoCP.
- 6.1.2 The general mitigation controls to be implemented for public access are described in section 6 of the Wylfa Newydd CoCP (Application Reference Number: 8.6).
- 6.1.3 All Horizon's permanent and temporary signs at the Park and Ride will be in Welsh and English during construction, operation and decommissioning.
- 6.1.4 Horizon will ensure resident, visitor and medical service access to the Gwyddfôr Residential Home and Cartio Môn Go Karting centre is maintained at all times throughout the construction, operation and decommissioning period.
- 6.1.5 Horizon will ensure access to Ysgol Uwchradd Bodedern School is maintained at all times throughout the construction, operation and decommissioning period.
- 6.1.6 There are no further site-specific requirements in relation to public access for this sub-CoCP.

7 Air quality management strategy

7.1 General

- 7.1.1 Mitigation to reduce pollutant emissions is based on the requirements set out in the Wylfa Newydd CoCP (Application Reference Number: 8.6) and any further controls set out in this sub-CoCP.
- 7.1.2 The general mitigation controls to be implemented for air quality are described in section 7 of the Wylfa Newydd CoCP (Application Reference Number: 8.6).
- 7.1.3 In addition, the measures below outline specific measures to be implemented during construction of the Park and Ride.

7.2 Dust emissions

- 7.2.1 Horizon will undertake dust deposition monitoring using passive Frisbee-type dust deposition gauges. Two dust deposition gauges will be installed at locations close to the nearest human receptors to the east and northeast and of the site boundary, or the nearest possible secure location. These monitoring locations will be agreed with the local authority. The dust monitoring will commence prior to any construction works and continue until all the construction works are complete. Baseline monitoring will be undertaken at least three months before work commences on site. Monitoring and processing of dust samples to be in accordance with the protocol for using the dry Frisbee dust deposit gauge [RD2], or equivalent approach. Dust deposition sampling will be undertaken on a monthly basis.
- 7.2.2 Horizon will avoid explosive blasting, using appropriate manual or mechanical alternatives.

8 Noise and vibration management strategy

8.1 General

- 8.1.1 Horizon's noise and vibration management is based on the requirements set out in the Wylfa Newydd CoCP (Application Reference Number: 8.6) and any further controls set out in this sub-CoCP.
- 8.1.2 The general mitigation controls to be implemented for noise and vibration, which would also apply during site decommissioning are described in section 8 of the Wylfa Newydd CoCP (Application Reference Number: 8.6).
- 8.1.3 In addition, the measures below outline specific measures to be implemented during construction of the Park and Ride.

8.2 Noise and vibration control measures

- 8.2.1 Monitoring at locations representative of noise sensitive receptors during construction will ensure noise levels remain within the permitted levels under the Section 61 approval. The Section 61 application will set out the thresholds and details of the monitoring programme including monitoring equipment, locations, frequency and duration of measurement and personnel skills required. The proposed monitoring programme is likely to involve a combination of continuous and short-term spot check measurements, and review of these initial results to determine if ongoing monitoring is required. All monitoring results will be made available to the IACC
- 8.2.2 In choosing the location of the contractor's compound, the distance between noise sources and noise sensitive receptors will be taken into account and increased as far as reasonably practicable. This will ensure that noise levels from activities within the contractor's compound will be reduced at sensitive receptors.

8.3 Operation

- 8.3.1 Good practice measures will be implemented during the operation of the Park and Ride, including:
- where practicable, buses will wait with their engines switched off;
 - buses will not wait on the public highway; and
 - the use of horns will not be permitted for any vehicles for non-emergency situations (e.g. to signal the attention of Park and Ride staff upon arrival).
- 8.3.2 The programme for monitoring operational noise at the Park and Ride Facility will be established and agreed with IACC prior to commencement of operation. It is anticipated that monitoring will likely include off-site spot check noise surveys at receptors, and some onsite monitoring near particular noise sources at long-term intervals. Initial monitoring would be carried out quarterly, with results reviewed to determine if the frequency of monitoring should be adjusted.

9 Waste and materials management strategy

9.1 General

- 9.1.1 Horizon's waste and materials management is based on the requirements set out in the Wylfa Newydd CoCP (Application Reference Number: 8.6) and this sub-CoCP.
- 9.1.2 The general mitigation controls to be implemented for waste and materials are described in section 9 of the Wylfa Newydd CoCP (Application Reference Number: 8.6).
- 9.1.3 In addition, the measures below outline specific measures to be implemented during construction of the Park and Ride.

10 Water management strategy

10.1 General

- 10.1.1 Horizon's water management is based on the requirements set out in the Wylfa Newydd CoCP (Application Reference Number: 8.6) and any further controls set out in this sub-CoCP.
- 10.1.2 The general mitigation controls to be implemented for water are described in section 10 of the Wylfa Newydd CoCP (Application Reference Number: 8.6).
- 10.1.3 In addition, the measures below outline specific measures to be implemented during construction of the Park and Ride.

10.2 Construction

- 10.2.1 To protect water quality and reduce impacts on fluvial geomorphology, suitably demarcated buffer zones will be established adjacent to the following watercourses:
- a 15m buffer zone along either side of the Nant Dalar Hir; and
 - a 10m buffer zone on either side of drainage ditches

10.3 Operation

Pollution prevention

- 10.3.1 Surface water drainage from all car parking areas where there is a potential of leaks of fuels, oils or other liquids will incorporate attenuation and appropriate pollution treatment. Permeable paving with a granular sub-base and geotextile will be used, to divert water through an oil water interceptor prior to discharge to the Nant Dalar Hir.
- 10.3.2 The on-site sewage treatment plant will be designed to treat water to appropriate standards as set out in the consenting conditions of the Environmental Permit, and will be fitted with monitoring controls to check discharge quality and if necessary prevent discharge of water that does not meet the limits of the environmental permit.
- 10.3.3 There will be no bulk fuel storage or refuelling on site.
- 10.3.4 Operational pollution prevention controls will include the following measures.
- Regular inspection, maintenance and management of oil interceptors and the drainage system. In particular, this would focus on removing any silt or other debris build-up in the drainage and interceptors to ensure that they function as designed.
 - Regular inspection of the parking area for fuel and oils. This would include a visual inspection across all parking areas to look for any oil sheen or staining that could indicate contamination that would require mitigation.

- Implementation of a spill response and clean-up procedure to prevent pollution of watercourses. This would follow guidance provided by Natural Resources Wales in Guidelines for Pollution Prevention 21 [RD3].

11 Ecology and landscape management strategy

11.1 General

- 11.1.1 Horizon's ecology and landscape management is based on the requirements set out in the Wylfa Newydd CoCP (Application Reference Number: 8.6) and any further controls set out in this sub-CoCP.
- 11.1.2 The general mitigation controls to be implemented for ecology and landscape are described in section 11 of the Wylfa Newydd CoCP (Application Reference Number: 8.6).
- 11.1.3 In addition, the measures below outline specific measures to be implemented during construction of the Park and Ride.

11.2 Site-specific requirements

- 11.2.1 Hedgerows, trees (including root protection zones) and walls will be retained and protected wherever practicable.
- 11.2.2 In order to avoid any breaches of legislation protecting habitats and species the following measures will be implemented.
- 11.2.3 With the exception of Ditch 7, all remaining ditches and streams within the boundary of the Park and Ride will be retained and protected by a 15m machinery/plant exclusion zone surrounding watercourses to mitigate impacts on water quality. Where works within this zone are required, e.g. for drainage infrastructure installation, appropriate risk assessments and method statements will be prepared to limit impacts, prior to works commencing within this zone, which will be completed in the presence of an ECoW.
- 11.2.4 Works compounds, storage sites, access roads and construction work will be located/carried out at an agreed minimum distance from water features as advised by an Environmental Clerk of Works.
- 11.2.5 The height of topsoil storage mounds will be limited to 2m, in order to reduce potential visual impact and reduce potential adverse impacts on topsoil quality and the suitability for re-use.
- 11.2.6 Horizon will undertake quarterly landscape site inspections for a 5-year period, followed by annual inspection for a second 5-year period (total 10 years) in order to ensure landscaping has established appropriately. In the event that these inspections identify that planting has not established, replacement planting on a like for like basis will be undertaken at the first available planting season.

11.3 Badgers

- 11.3.1 A buffer zone of 30m will be established around an existing badger sett in the north of the site.
- 11.3.2 Within these buffer zones, use of heavy plant machinery will not take place. Where work cannot be avoided, only hand tools will be used in accordance

with appropriate risk assessments and method statements, and in the presence of an EcoW.

- 11.3.3 Badger will be protected from accidental entrapment during the construction phase by ensuring that there are escape routes provided from excavations at all times. This will include covering excavations overnight where possible. Where this is not possible, trenches will have shallow sloped ends until they are filled in, or rough planks will be left to act as ramps to allow badger to climb out.

11.4 Bats

- 11.4.1 A pre-demolition bat survey will be carried out for any building to be demolished. This will take place in accordance with best practice guidance and will consist of a dusk emergence survey followed by a dawn re-entry survey, before demolition is due to take place. If no bats are recorded leaving or entering the building, then it will be demolished that day. If bats are recorded using the building, then demolition will be postponed until a European Protected Species Mitigation Licence is obtained.

11.5 Water vole

- 11.5.1 Pre-construction surveys will be completed to determine the exact locations of any water vole burrows in areas of habitat likely to be affected during drainage infrastructure installation. This will inform micro-siting of works to avoid impacts to burrows and the animals themselves.
- 11.5.2 During works to install drainage infrastructure where effects on water vole burrows are likely (as informed by pre-construction surveys), vegetation clearance will take place ahead of works. This is an effective way of dissuading water vole from using an area, if used over a short period, and in small areas. This will be followed by supervision of all works to banks of watercourses by an Ecological Clerk of Works. Any water vole found will be released into areas of retained habitats.

12 Cultural heritage management strategy

12.1 General

- 12.1.1 Horizon's cultural heritage management is based on the requirements set out in the Wylfa Newydd CoCP (Application Reference Number: 8.6) and any further controls set out in this sub-CoCP.
- 12.1.2 The general mitigation controls to be implemented for cultural heritage are described in section 12 of the Wylfa Newydd CoCP (Application Reference Number: 8.6).
- 12.1.3 The specific measures to be implemented during construction of the Park and Ride are outlined below in table 12-1.

Table 12-1 Mitigation treatment per cultural heritage asset

Asset	Mitigation
Possible burnt mound (Asset 14)	Archaeological excavation of the heritage asset. Excavation would be undertaken in accordance with the Standard and guidance for archaeological excavation from the Chartered Institute for Archaeologists [RD4] and a WSI and agreed with GAPS.
Dalar Hir Burnt Mound, Pits, Ditches and Postholes (Asset 18)	Archaeological excavation of the heritage asset. Excavation would be undertaken in accordance with the Standard and guidance for archaeological excavation from the Chartered Institute for Archaeologists [RD4] and a WSI and agreed with GAPS.
Burnt mound, pits and linear features (Asset 15)	Archaeological excavation of the heritage asset. Excavation would be undertaken in accordance with the Standard and guidance for archaeological excavation from the Chartered Institute for Archaeologists [RD4, RD5] and a WSI and agreed with GAPS.
Former Clawdd (Asset 2)	Photographic survey
Fieldscape, Central Eastern Mon (HLT 1)	Photographic survey. Photographic survey would be undertaken in accordance with relevant guidance [RD5, RD6] and a WSI and agreed with GAPS.
Boundary Wall adjacent to Telford A5 road (Asset 1)	Level 1 Historic Building Recording [RD7]. The Level 1 Historic Building Recording would be undertaken in accordance with relevant guidance [RD4, RD5, RD7] and a WSI which would be agreed with GAPS.
Dalar Hir Farmstead (Asset 4)	Level 1 Historic Building Recording (Historic England, 2016). The Level 1 Historic Building

Asset	Mitigation
	Recording would be undertaken in accordance with relevant guidance [RD4, RD5, RD7] and a WSI which would be agreed with GAPS.
Removal of Dalar Hir Burnt Mound and Ditches (Asset 13)	Establishing environmental buffer zones around the assets

13 References

Table 13-1 Schedule of references

ID	Reference
RD1	British Standards Institution. 2013. <i>BS 5489-1:2013 – Code of practice for the design of road lighting</i> . London: British Standards Institution.
RD2	Stockholm Environment Institute, 1995 <i>Protocol for using the dry Frisbee (with foam insert) dust deposit gauge</i> [online] [available at:] http://www.hanby.co.uk/frisbeeprotocol.pdf
RD3	Natural Resources Wales, 2017. <i>GPP 21: Pollution Incident Response Plans</i> [online] [available from:] http://www.netregs.org.uk/media/1436/gpp-21-final.pdf
RD4	Chartered Institute for Archaeologists. 2014. <i>Standard and guidance for archaeological excavation</i> . [Online]. [Accessed: January 2018]. Available from: http://www.archaeologists.net/sites/default/files/CIfAS&GExcavation_1.pdf
RD5	Gwynedd Archaeological Planning Service (GAPS). 2015. <i>Guidance for applicants undertaking general photographic surveys for planning purposes</i> . [Online]. [Accessed: 15 January 2017]. Available from: https://content.historicengland.org.uk/images/books/publications/understanding-archaeology-of-landscapes/heag142-understanding-archaeology-of-landscapes.pdf
RD6	Historic England. 2017. <i>Understanding the Archaeology of Landscapes: A guide to good recording practice</i> . London: English Heritage. [Online]. [Accessed: 9 May 2017]. Available from: https://content.historicengland.org.uk/images-books/publications/understanding-archaeology-of-landscapes/understandingthearchaeologyoflandscapes.pdf
RD7	Historic England. 2016. <i>Understanding Historic Buildings: A Guide to Good Recording Practice</i> . [Online]. [Accessed: January 2018]. Available from https://historicengland.org.uk/images-books/publications/understanding-historic-buildings/