



METHOD STATEMENT

HIGHWAY SURFACE WATER OUTLETS, BEAUMARIS & LLANFAES

June 2021
Suitability S1
Revision P01

Prepared on Behalf of:

Reg Hinchcliffe

Isle of Anglesey County Council
Council Offices
Llangefni
LL77 7TW

By:

Cadarn Consulting Engineers Ltd.

Suite B,
Anglesey Business Centre,
Bryn Cefni,
Llangefni,
LL77 7XA

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S1	P01	09.06.21	First Issue.			

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1 Introduction

- 1.1 This Method Statement has been prepared on behalf of the Isle of Anglesey County Council (IOACC) to address concerns regarding the long-term maintenance strategy of the Local Highway Authority's (LHA) existing surface water discharge outlet structures in Beaumaris and Llanfaes. This report will also assist any environmental applications required to undertake works to ensure the long-term performance of the outlet structures.
- 1.2 The report is specific to the LHA's owned outlet structures which discharge surface water into the sea along the seafronts in Beaumaris and Llanfaes. Refer to Appendix A for a location plan for these two locations.
- 1.3 Cadarn Consulting Engineers Ltd (Cadarn) reserve the right to re-assess the findings and recommendations made within this report, if works on site have not commenced within twelve months of the issuing of this report.

2 Background Information

- 2.1 The IOACC's LHA have appointed Cadarn to determine the structural integrity and functionality of its highway outlets which are currently designed to discharge onto the beach at both Beaumaris and Llanfaes.
- 2.2 Because of the sensitivity of these areas (both beaches fall within the Glannau Penmôn Site of Special Scientific Interest (SSSI)), the LHA have been advised by Natural Resources Wales (NRW) that any outlet-associated works required below high tide level will require a marine licence.
- 2.3 Applied Ecological Services Ltd have prepared an Extended Phase 1 Habitat Survey for the outlets at Beaumaris and at Llanfaes. It is concluded that the impact on the environment and associated ecology will be minimal and that the works are to be carried out under a Band 1 Marine License as an **eligible activity** –“clearance/removal of beach material in and around outfalls to aid drainage”.
- 2.4 A Marine Management Organisation – Licence Requirement Check concludes that a MMO licence is not required.
- 2.5 Following consultation with the Marine & Coastguard Agency the following recommendations have been made:
 - local notification are issued to relevant local interested parties,
 - the topography should be returned to the original profile, or as close as reasonably practicable,
 - Appropriate steps must be taken to minimise damage to the shoreline resulting from the works; and
 - Suitable bunding and/or storage facilities are employed to prevent the release of fuel oils or lubricating fluids associated with the plant and equipment into the marine environment
- 2.6 This Method Statement has therefore been produced to support the associated marine licence required to undertake any works required to ensure the long-term integrity and functionality of the outlets, including any long-term licence which may be granted in order to carry out unscheduled maintenance of these outlets.

Emergency Contacts

2.7 Nearest hospital is:

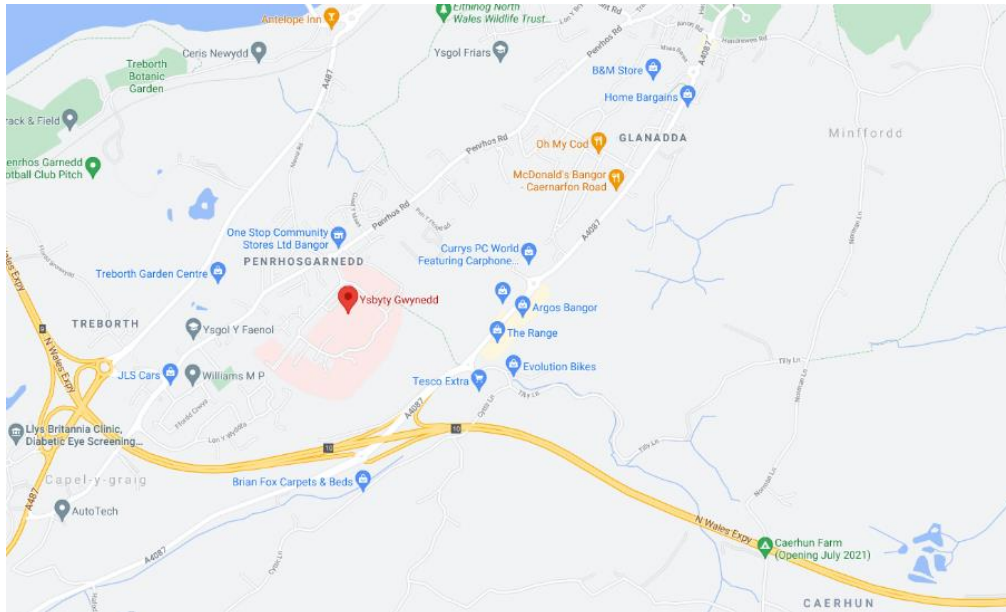
Ysbyty Bangor

Penrhosgarnedd,

Bangor.

LL57 2PW

01248 384384



Natural Resources Wales 0300 065 3000

Cadarn Consulting Ltd 01407 730 912

Main Contractor.....

3 Welfare

3.1 Contractor to supply onsite welfare facilities.

4 Investigation Findings & Recommendations

- 4.1 Both locations were subject to an initial walkdown investigation on 16th June 2020, with a through, follow-up investigation later undertaken on 17th November 2020 to determine any additional information to be taken into account during different tidal conditions.
- 4.2 Remedial works to be proposed within the relevant marine licence is to be limited to excavation with the use of a mini excavator. This shall temporarily clear all affected outlets of any debris build-up, and expose any outlets that were not visible during the walkdown investigations.

5 Access

- 5.1 Access to Beaumaris Outlets will be gained from the concrete jetty at the foot of the pier (NGR SH 60579 75994).
- 5.2 Access to Llanfaes Outlets will be gained via the slipway off the B5109 (NGR SH 60955 77242).
- 5.3 Ground conditions are susceptible to change at each tide. To mitigate the risks of plant machinery becoming stuck:
- A banks man should lead the machine to ensure that sound ground is encountered at all times.
 - The same path will be taken to and from each site.

6 Planned Activity

- 6.1 Works shall be planned to coincide with an ebbing tide.
- 6.2 Ensure adequate time to travel to the intended site, undertake the required activity and return to the access point.
- 6.3 All plant to be fuelled in site compound before venturing onto the beach.
- 6.4 All plant where possible to have bio oil.
- 6.5 Buoyancy aids to be worn at all times whilst undertaking associated tasks.
- 6.6 Met office 5 day forecast to be checked before each activity.
- 6.7 Japanese Knotweed (JKW) has been identified at the site. The following working

should be adhered too:

- Ensure that all operatives are able to identify JKW.
- Make a note of all locations where JKW has been positively located.
- All efforts should be made to ensure that JKW is not disturbed or damaged.
- A specialist contractor should be hired to remove the plant if required.
- Report the location of the plant to the local authority.

7 Activity Details

- 7.1 Locate head of drainage pipe outlet using hand tools where practicable.
- 7.2 Remove accumulated debris from the vicinity of the outlet and from a suitable channel allowing any discharged waters to disperse naturally.
- 7.3 Materials to be redistributed throughout the surrounding area with a 360 machine and hand tools where practicable.

8 Summary & Conclusion

- 8.1 This Structural Condition Report has been prepared on behalf of the LHA of IOACC to address concerns regarding the structural integrity and functionality of the highway outlets that are designed to discharge onto the beaches at Beaumaris at Llanfaes. This report the marine licence required for undertaking any of the remedial works required to ensure the long-term integrity of these outlets.
- 8.2 The Client has indicated that the extent of any remedial works to be proposed within the relevant marine licence is to be limited to excavation, with the use of a mini excavator, to ensure that all outlets are cleared of any debris and any currently buried outlets are re-exposed. This report has identified the outlets which require excavation to be undertaken in their vicinity.



NOTES

1. DO NOT SCALE FROM THIS DRAWING.

2. ALL LEVELS IN METERS UNLESS NOTED OTHERWISE ON DRAWING.

3. ALL DIMENSIONS AND LEVELS TO BE CHECKED ON SITE PRIOR TO UNDERTAKING ANY WORKS. ORDERING MATERIALS OR FABRICATING ANY COMPONENTS.

4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS AND ARCHITECTS DRAWINGS AND RELEVANT SPECIFICATION CLAUSES.

KEY

DENOTES AREA OF ACCESS POINT ONTO BEACH

DENOTES AREA OF ACCESS PATH

DENOTES APPROX AREAS OF OUTLET AND PIPE.

DENTOTES PROPOSED ROUTE OF TRACKED VEHICLE.

SI	NO	DATE	FIRST ISSUE						
AVAILABILITY	REV	DATE	DESCRIPTION			Rev	Chg	App	Aut
DRAWING STATUS									
PROJECT TITLE									
HIGHWAY OUTLETS BEAUMARIS AND LLANFAES									
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LLANFAES OUTLET ACCESS PLAN									
DRAWING No:									
PROJECT	ORIGINATOR	VOL.	LOC.	TYPE	SCALE				
006720	CCE	V1	XX	40:40:01	C				
50:30	0002	S1	P01						
CLASSIFICATION	No.	STABILITY	REVISIONS						
ORIGINATOR	DATE	SCALE	ORIGINAL SIZE						
T.JONES	28.07.2021	1:500	A0						

CADARN

CONSULTING ENGINEERS

Address: CADARN Consulting Engineers Ltd,
Suite B,
Anglican Business Center,
Bryn Cefn,
Llangefni,
LL77 7XA

Tel: 01407 739912
E-mail: Admin@cadarnconsulting.co.uk



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DRAWING STATUS:								
PROJECT TITLE:								
HIGHWAY OUTLETS BEAUMARIS AND LLANFAES								
DRAWING TITLE:								
BEAUMARIS OUTLET ACCESS PLAN								
DRAWING No:								
PROJECT	ORIGINATOR	VOL	LOC	TYPE	ROLE			
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CLASSIFICATION		No.	SUITABILITY	REVISION				
50:30		0001	S1	P01				
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T.JONES	28.07.2021	1:500	A1					

Address: CADARN Consulting Engineers Ltd,
Suite B,
Anglesey Business Center,
Bryn Cefni,
Llangefni,
LL77 7XA
E-mail: Admin@cadarnconsulting.co.uk
Tel: 01407 730912