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Appropriate Assessment Screening – Note TO270/01

Project:	5162555_TO 270 Munster Bridges		
Subject:	Reactive Maintenance - AA Screening No. TO270/04		
Author:	Paul O'Donoghue, Atkins Principal Ecologist	Atkins No.:	Appropriate Assessment Screening – Note TO270/04. Revision 1.0
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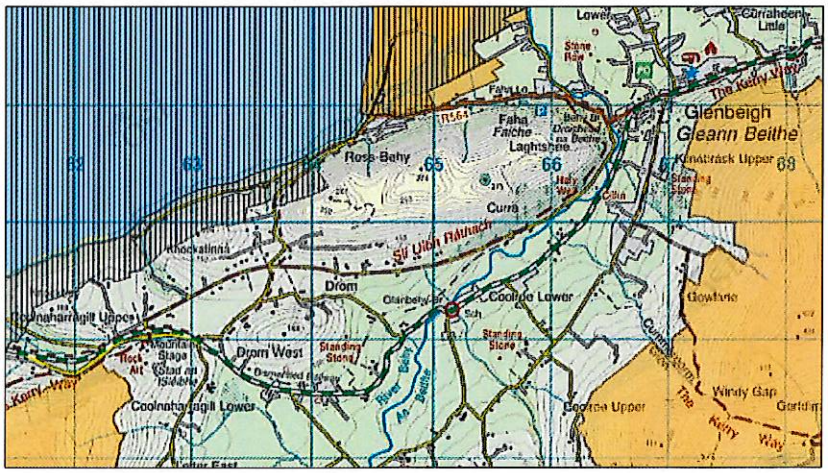
Bridge / Culvert Details

Bridge	Glenbeigh National School Bridge / Coolroe Bridge
Structure ID	KY-N70-021.00
County	Kerry
Location	On the N70, beside Glenbeigh National School (ING ref: 465130 589299).
Maps	

Map 1. Glenbeigh Bridge (circled in Red); SAC's shown in brown, SPA's shown in hatching. [Source: https://maps.biodiversityireland.ie/Map]

Map 2. Glenbeigh Bridge (KY-N70-021.00). [Source: GoogleMaps]

Photos

Plate 1. Damage to parapet wall on northern side of the N70.

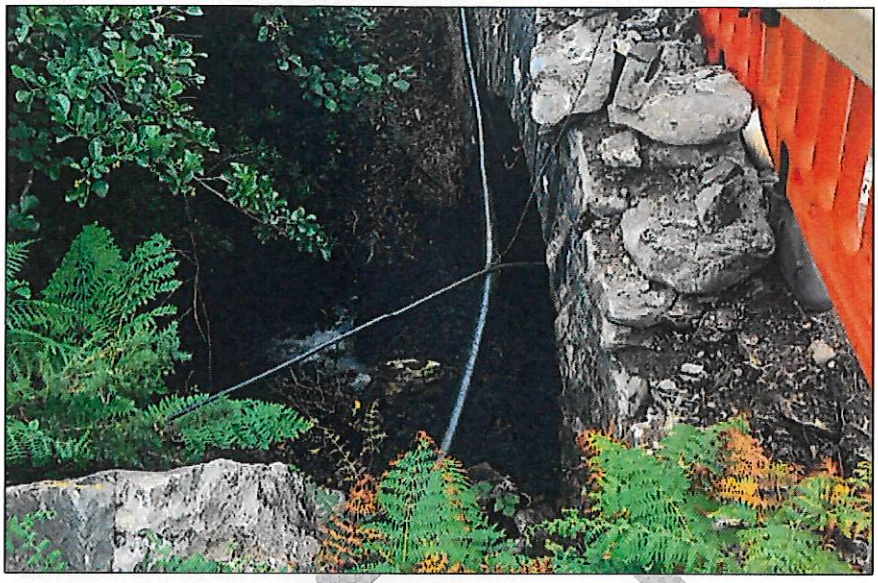


Plate 2. Damage to parapet wall on northern side of the N70.

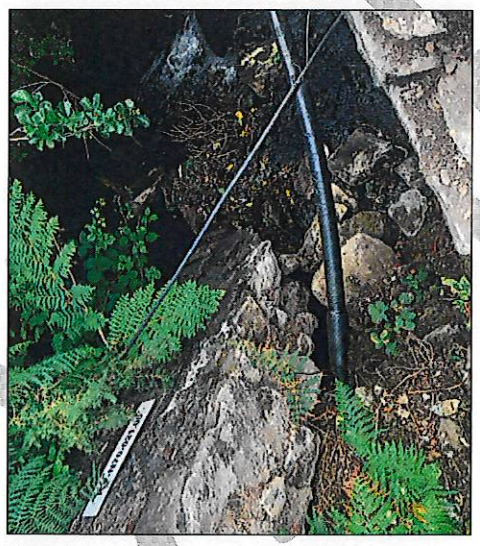


Plate 3. Debris having fallen into the stream / onto river bank – looking downstream (northwards).

Proposed Works	Following a vehicle impact at KY-N70-021.00, masonry reconstruction measuring 2.9m long x 1.2m high x 0.42m deep is required. The repair will be on a like for like basis. At the area of the damage most stone is available for reuse however some imported stone may be required. Measured area of repair includes minor deformation to masonry still in place. Basic scaffold is required to complete the works which will be decked out with plywood. Any masonry in the watercourse will be recovered by hand. No concrete works are required. All repointing is to be done using NHL 5. Repairs will take approximately 2 days.

Appropriate Assessment Screening Decision Matrix

Natura 2000 Sites	Of those Natura 2000 sites within 15km only the following two are within the potential zone of influence of the proposed works: - ➢ On a tributary of the Behy (Kerry) River which discharges to Castlemaine Harbour SPA (0040429) and Castlemaine Harbour SAC (000343). The bridge is located ca. 45m from the tributary's joining of the Behy (Kerry) River. The Castlemaine Harbour SPA and SAC is located ca. 1.4km and 1.7km north of the bridge respectively. The instream distance to the SPA and SAC is ca. 4km.
pNHA / NHA	The Harbour to which the Behy (Kerry) river discharges is also designated as Castlemaine Harbour pNHA (000343).
Hydrological links	Small order stream joining Behy (Kerry) River which in turn discharges directly to Castlemaine Harbour.
FWPM	The Behy (Kerry) is located within Behy *Margaritifera* sensitive area (as labelled by NBDC). Pearl mussel were recorded in 2007 at Glanbehy Bridge (i.e. Behy site no. 6 - Scattered adults; 2 mussels in 20m). As noted works are on a small order tributary of the River Behy, which enters the Behy at Glanbehy Bridge. The low order tributary on which the bridge is located does not support suitable habitat for pearl mussel.
Bats	The potential value of the culvert to bats would be low; works to the parapet would not affect bat usage. No works to the abutments or arch barrel are required.
Invasive Species	➢ Japanese knotweed (*Fallopia japonica*) has been recorded within ca. 50m of the bridge in 2017, and is reported within the entire 2km grid square.
Other Ecology Notes	Otter was recorded from River Behy at Glanbehy Bridge/N70 (V651892) in 1980, as well as more recently along the River Behy both upstream and downstream of the confluence with the stream on which works are located.

Brief Description of the Natura 2000 site(s)

Site	**Castlemaine Harbour SAC (000343)**
Qualifying Interests: -	➢ Estuaries [1130] ➢ Mudflats and sandflats not covered by seawater at low tide [1140] ➢ Annual vegetation of drift lines [1210] ➢ Perennial vegetation of stony banks [1220] ➢ Vegetated sea cliffs of the Atlantic and Baltic coasts [1230]

	➢ Salicornia and other annuals colonising mud and sand [1310] ➢ Atlantic salt meadows (Glauco-Puccinellietalia maritimae) [1330] ➢ Mediterranean salt meadows (Juncetalia maritimi) [1410] ➢ Embryonic shifting dunes [2110] ➢ Shifting dunes along the shoreline with *Ammophila arenaria* (white dunes) [2120] ➢ Fixed coastal dunes with herbaceous vegetation (grey dunes) [2130] ➢ Dunes with *Salix repens* ssp. *argentea* (Salicion arenariae) [2170] ➢ Humid dune slacks [2190] ➢ Alluvial forests with *Alnus glutinosa* and *Fraxinus excelsior* (Alno-Padion, Alnion incanae, Salicion albae) [91E0] ➢ *Petromyzon marinus* (Sea Lamprey) [1095] ➢ *Lampetra fluviatilis* (River Lamprey) [1099] ➢ *Salmo salar* (Salmon) [1106] ➢ *Lutra lutra* (Otter) [1355] ➢ *Petalophyllum ralfsii* (Petalwort) [1395]
Assessment	Glenbeigh Bridge does not lie within this SAC; it is located ca.1.7km from this site by land and is hydrologically connected to the SAC via surface water pathways. None of the habitats for which the SAC has been designated are found at this location. Instream debris will be removed by hand, with no other instream works required. Loss of debris to the stream is likely to be minimal due to the working methods employed by use of scaffolding fitted with plywood that adjoins the bridge. The plywood that will adjoin the bridge will catch any potential debris or mortar droppings entering the watercourse. [*This measure will assist in protecting pearl mussel in the River Behy; which is not a qualifying feature of Castlemaine Harbour SAC*]. All other works to the parapet will be undertaken from the road adjoining the stream. Thus, given the nature and scale of the proposed works and the location of the bridge relative to the SAC, likely significant effects to Castlemaine Harbour SAC are not predicted.
Site	**Castlemaine Harbour SPA (004029)**
Qualifying Interests: -	➢ Red-throated Diver (*Gavia stellata*) [A001] ➢ Cormorant (*Phalacrocorax carbo*) [A017] ➢ Light-bellied Brent Goose (*Branta bernicla hrota*) [A046] ➢ Wigeon (*Anas penelope*) [A050] ➢ Mallard (*Anas platyrhynchos*) [A053] ➢ Pintail (*Anas acuta*) [A054] ➢ Scaup (*Aythya marila*) [A062] ➢ Common Scoter (*Melanitta nigra*) [A065] ➢ Oystercatcher (*Haematopus ostralegus*) [A130] ➢ Ringed Plover (*Charadrius hiaticula*) [A137] ➢ Sanderling (*Calidris alba*) [A144]

- Bar-tailed Godwit (*Limosa lapponica*) [A157]
- Redshank (*Tringa totanus*) [A162]
- Greenshank (*Tringa nebularia*) [A164]
- Turnstone (*Arenaria interpres*) [A169]
- Chough (*Pyrrhocorax pyrrhocorax*) [A346]
- Wetland and Waterbirds [A999]

Assessment	Glenbeigh Bridge is located ca.1.4km from Castlemaine Harbour SPA by land. The majority of the species for which this site is designated frequent coastal estuaries. The bridge is also connected to the SPA via surface water pathways. There are no habitats located within the vicinity of the bridge that would support these bird species. Works are sufficiently remote not to disturb birds using the SPA; furthermore, works will be undertaken in mid-August over 2 days; prior to the return of the majority of these wintering birds to the SPA. Instream debris will be removed by hand, with no other instream works required. Loss of debris to the stream is likely to be minimal due to the working methods employed by use of scaffolding fitted with plywood that adjoins the bridge. The plywood that will adjoin the bridge will catch any potential debris or mortar droppings entering the watercourse. All other works to the parapet will be undertaken from the road adjoining the stream. Thus, given the nature and scale of the proposed works and the location of the bridge relative to the SPA, likely significant effects to Castlemaine Harbour SPA are not predicted.

Findings of this Assessment

Atkins Findings	This Screening for Appropriate Assessment report is based on the best available scientific information. It is concluded by the authors of this report that the proposed project poses no likely significant effects on Castlemaine Harbour SAC (000343) or Castlemaine Harbour SPA (004029). Thus, it is recommended that it is not necessary for the proposed project to proceed to Appropriate Assessment.

Having performed screening for Appropriate Assessment in respect of the proposed reactive maintenance works detailed in this document entitled *Appropriate Assessment Screening – Note TO270/04*, I accept the recommendations of Atkins Limited that the proposed reactive maintenance works, individually or in combination with other plans or projects, would not be likely to have a significant effect on any European site in view of the best scientific knowledge and the site's conservation objectives. I determine that an Appropriate Assessment of these proposed works is not required, as *it can be excluded* on the basis of objective scientific information following the screening done that the proposed works, individually or in combination with other plans or projects, will have a significant effect on any European site.

Vincent O'Malley 12/08/2019

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