

EUROPEAN SITES	QUALIFYING INTERESTS (SOURCED FROM NPWS ONLINE CONSERVATION OBJECTIVES, WWW.NPWS.IE ON THE (21/06/2020)	CONSERVATION OBJECTIVES	POTENTIAL FOR THE PROPOSED FLOOD RELIEF SCHEME TO RESULT IN SIGNIFICANT EFFECTS
SAC			
River Moy SAC (002298) Works partially within the	Active raised bog (7110)* Degraded raised bogs still capable	Detailed conservation objectives for this site (Version 1, August 2016) were reviewed as part of the assessment and	The proposed flood relief scheme will result in direct effects on the River Moy SAC with works proposed within the SAC at the locations of the
SAC	of natural regeneration (7120) Depressions on peat substrates of the Rhynchosporion (7150) Alkaline fens (7230) Old sessile oak woods with Ilex and Blechnum in the British Isles (91A0) Alluvial forests with Alnus glutinosa	are available at www.npws.ie	River Flow Control Structure and the Intake Weir. The ongoing maintenance of the River Deel between the Jack Garrett Bridge and just upstream of the Intake weir will be included in the OPW River Moy Maintenance Area as part of the flood relief scheme. This area is within the River Moy SAC. There is potential for habitat loss and disturbance to the aquatic habitats and species
	and Fraxinus excelsior (91E0)* Austropotamobius pallipes (White-clawed Crayfish) [1092] Petromyzon marinus (Sea Lamprey) [1095] Lampetra planeri (Brook Lamprey) [1096] Salmo salar (Atlantic Salmon) [1106]		associated with the proposed works in this area. Much of the proposed development is located outside the SAC but there is potential for indirect effects in various forms such as hydrological and hydromorphological changes to the functioning of the river, water pollution or disturbance to result in significant effects on the River Moy SAC. The following Qualifying Interests have the potential to be affected by the proposed works both directly through habitat loss and disturbance and indirectly through water pollution causing

L	utra lutra (otter) [1355]	habitat deterioration and through potential
		changes to the hydromorphology of the river.
		Alluvial forests with Alnus glutinosa and
		Fraxinus excelsior (91E0)*
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		Austropotamobius pallipes (White-clawed
		Crayfish) [1092]
		Petromyzon marinus (Sea Lamprey)
		[1095]
		- / / / / / / / / / / / / / / / / / / /
		 Lampetra marinus (Brook Lamprey) [1096]
		[1070]
		Salmo salar (Atlantic Salmon) [1106]
		Lutra lutra (otter) [1355]
		It cannot be excluded, on the basis of objective
		information, that the proposed development,
		individually or in combination with other plans
		or projects, will have a significant effect on this
		European site. Accordingly, a Stage Two
		Appropriate Assessment is required.
		Following the review of the Conservation
		Objectives for the SAC, the detailed desk study
		and the field surveys undertaken, no pathway for
		significant effect on the following QI habitats was
		identified:
		Active raised bog (7110)*
		Degraded raised bogs still capable of natural
		regeneration (7120)
1		regeneration (7 120)

SAC (001922) (3 5.3km to the west Pr Bl Do th Al Ve Sr Sc Sc	Natural dystrophic lakes and ponds (3160) Northern Atlantic wet heaths with rica tetralix (4010) Planket bogs (*if active) (7130) Pepressions on peat substrates of the Rhynchosporion (7150) Alkaline fens (7230) Vertigo geyeri (Geyer's Whorl sinail) [1013] Saxifraga hirculus (Marsh Saxifrage) [1528]	Detailed conservation objectives for this site (Version 1, October 2017) were reviewed as part of the assessment and are available at www.npws.ie Detailed conservation objectives for this site (Version 1, October 2012) were reviewed as part of the assessment and	This European Site is located upstream and up gradient of the proposed flood relief scheme. There was no identifiable pathway by which the proposed flood relief scheme has the potential to result in effects on the SAC. The qualifying interests are associated with peatlands and wetlands that have no potential to be affected by the proposed works. No pathway for effect exists and the site is not within the Likely Zone of Impact. It can be excluded, on the basis of objective information, that the proposed development, individually or in combination with other plans or projects, will have a significant effect on this European site. Accordingly, a Stage Two Appropriate Assessment is not required. Whilst this European Site is located approximately 10km from the proposed works, it is approximately 40km upstream via surface
			Depressions on peat substrates of the Rhynchosporion (7150) Alkaline fens (7230) Old sessile oak woods with Ilex and Blechnum in the British Isles (91A0) These habitats were not recorded during the surveys undertaken and are not identified from the area in the site specific conservation document.

10.7km north east	by seawater at low tide (1140) Annual vegetation of drift lines (1210)	are available at www.npws.ie	water. Any water discharging from the proposed works area has to pass through Lough Conn & Lough Cullin for a distance of approximately 19km before entering the River
	Salicornia and other annuals colonising mud and sand (1310) Atlantic salt meadows (1330) Embryonic shifting dunes (2110) Shifting dunes along the shoreline with Ammophila arenaria (2120) Fixed coastal dunes with herbaceous vegetation* (2130)		Moy for a distance of over 20km before reaching the SAC. The lake and river would provide settlement and buffering from any potential pollution event and the potential for significant effects can be excluded. In addition, the Qualifying Interests of the SAC are all coastal or marine in nature and less sensitive to siltation or freshwater pollution than receptors within the River Moy or Loughs Conn & Cullin.
	Humid dune slacks (2190) Vertigo angustior (Narrow-mouthed Whorl sanil) [1014] Petromyzon marinus (Sea Lamprey) [1095] Phoca vitulina (Harbour Seal) [1365]		No pathway for significant effect exists and the site is not within the Likely Zone of Impact. It can be excluded, on the basis of objective information, that the proposed development, individually or in combination with other plans or projects, will have a significant effect on this European site. Accordingly, a Stage Two Appropriate Assessment is not required.
Newport River SAC (002144) 11.7km to the south west	Margaritifera margaritifera (Freshwater Pearl Mussel) [1029] Salmo salar (Salmon) [1106]	This site has the generic conservation objective: 'To maintain or restore the favourable conservation condition of the Annex I habitat(s) and/or the Annex II species for which the SAC has been selected'.'	This European Site is in an entirely separate surface water catchment from the proposed flood relief scheme and is separated from the proposed works by a distance of over 11km. No pathway for effect exists and the site is not within the Likely Zone of Impact. It can be excluded, on the basis of objective information,

		(NPWS Generic version 6.0, 2018)	that the proposed development, individually or in combination with other plans or projects, will have a significant effect on this European site. Accordingly, a Stage Two Appropriate Assessment is not required.
Lough Dahybaun SAC (002177) 12.9km north west	Najas flexilis (Slender Naiad) [1833]	This site has the generic conservation objective: 'To maintain or restore the favourable conservation condition of the Annex I habitat(s) and/or the Annex II species for which the SAC has been selected'.' (NPWS Generic version 7.0, 2020)	This European Site is in an entirely separate surface water catchment from the proposed flood relief scheme and is separated from the proposed works by a distance of over 12km. No pathway for effect exists and the site is not within the Likely Zone of Impact. It can be excluded, on the basis of objective information, that the proposed development, individually or in combination with other plans or projects, will have a significant effect on this European site. Accordingly, a Stage Two Appropriate Assessment is not required.
Owenduff/Nephin Complex SAC (000534) 14.5km south west	Oligotrophic waters containing very few minerals of sandy plains (3110) Oligotrophic to mesotrophic standing waters with vegetation of the Littorelletea uniflorae and/or Isoeto-Nanojuncetea (3130) Natural dystrophic lakes and ponds (3160) Watercourses of plain to montane levels with the Ranunculion fluitantis and Callitricho – Batrachion	Detailed conservation objectives for this site (Version 1, July 2017) were reviewed as part of the assessment and are available at www.npws.ie	This European Site is primarily located in a separate surface water catchment. The small section that is within the Moy catchment is upstream and up gradient of the proposed flood relief scheme. There was no identifiable pathway by which the proposed flood relief scheme has the potential to result in effects on the SAC. The qualifying interests are associated with peatlands and wetlands that have no potential to be affected by the proposed works. No pathway for effect exists and the site is not within the Likely Zone of Impact. It can be

	vegetation (3260) Northern Atlantic wet heaths with Erica tetralix (4010) Alpine and Boreal heaths (4060) Juniperus communis formations on heaths or calcareous grasslands (5130) Blanket bogs (* if active) (7130) Salmo salar (Salmon) [1106] Lutra lutra (Otter) [1355] Drepanocladus vernicosus (Slender Green Feather-moss) [1393] Saxifraga hirculus (Marsh Saxifrage) [1528]		excluded, on the basis of objective information, that the proposed development, individually or in combination with other plans or projects, will have a significant effect on this European site. Accordingly, a Stage Two Appropriate Assessment is not required.
Bellacorick Iron Flush SAC (000466) 14.5km north west	Saxifraga hirculus (Marsh Saxifrage) [1528]	Detailed conservation objectives for this site (Version 1, Nov 2019) were reviewed as part of the assessment and are available at www.npws.ie	This European Site is in an entirely separate surface water catchment from the proposed flood relief scheme and is separated from the proposed works by a distance of over 14km. No pathway for significant effect exists and the site is not within the Likely Zone of Impact. It can be excluded, on the basis of objective information, that the proposed development, individually or in combination with other plans or projects, will have a significant effect on this European site. Accordingly, a Stage Two Appropriate Assessment is not required.

SPA	Special Conservation Interests		
Lough Conn and Lough Cullin SPA (004228) 0.3km east of works area, washlands partially within SPA	Aythya fuligula (Tufted Duck) [A061] Melanitta nigra (Common Scoter) [A065] Larus canus (Common Gull) [A182] Anser albifrons flavirostris (Greenland White-fronted Goose) [A395] Wetland and Waterbirds (A999)	The generic conservation objectives of this designated site as per the Conservation Objectives Document (NPWS Generic version 5.0, 2016) are: 1) To maintain or restore the favourable conservation condition of the bird species listed as Special Conservation Interests for this SPA 2) To maintain or restore the favourable conservation condition of the wetland habitat at Lough Conn and Lough Cullin SPA as a resource for the regularly-occurring migratory waterbirds that utilise it.	The proposed flood relief scheme has potential to result in direct effects on the SPA. Whilst no physical works are being carried out within the SPA, the washlands are located partially within it and could potentially be directly affected through physical disturbance and habitat deterioration. There is also potential for indirect effects such as water pollution to result in significant effects on the Lough Conn & Lough Cullin SPA. It cannot be excluded, on the basis of objective information, that the proposed development, individually or in combination with other plans or projects, will have a significant effect on this European site. Accordingly, a Stage Two Appropriate Assessment is required
Killala Bay/Moy Estuary SPA (004036) 12.0km northeast	Charadrius hiaticula (Ringed Plover) [A137] Pluvialis apricaria (Golden Plover) [A140] Pluvialis squatarola (Grey Plover) [A141] Calidris alba (Sanderling) [A144] Calidris alpina alpina (Dunlin)	Detailed conservation objectives for this site (Version 1, May 2013) were reviewed as part of the assessment and are available at www.npws.ie	Whilst this European Site is located approximately 12km from the proposed works, it is over 40km upstream via surface water. Any water discharging from the proposed works area has to pass through Lough Conn & Lough Cullin for a distance of approximately 19km before entering the River Moy for a distance of over 20km before reaching the SPA. The lake and river would provide settlement and buffering



[A149]	from any potential pollution event and the
Limosa lapponica (Bar-tailed	potential for significant effects can be excluded
Godwit) [A157]	No pathway for significant effect exists and the
Numenius arquata (Curlew) [A160]	site is not within the Likely Zone of Impact. It
Numerillos di quala (Curiew) [A 100]	can be excluded, on the basis of objective
Tringa totanus (Redshank) [A162]	information, that the proposed development,
Wetland and Waterbirds (A999)	individually or in combination with other plans
vi onana ana vi aronsinas (vi / / /	or projects, will have a significant effect on this
	European site. Accordingly, a Stage Two
	Appropriate Assessment is not required.

Table 3.1 Determination of European Sites that are located within the Zone of Likely Effect

^{*}Priority Habitat



3.1 EUROPEAN SITES WITH THE POTENTIAL TO BE SIGNIFICANTLY AFFECTED BY THE PROPOSED DEVELOPMENT

3.1.1 River Moy SAC (002298)

The proposed flood relief scheme will result in direct effects on the River Moy SAC with works proposed within the SAC at the locations of the River Flow Control Structure and the Intake Weir. The ongoing maintenance of the River Deel between the Jack Garrett Bridge and just upstream of the Intake weir will be included in the OPW River Moy Maintenance Area as part of the flood relief scheme. This area is within the River Moy SAC. There is potential for habitat loss and disturbance to the aquatic habitats and species associated with the proposed works in this area.

Much of the proposed development is located outside the SAC but there is potential for indirect effects in various forms such as hydrological and hydromorphological changes to the functioning of the river, water pollution or disturbance to result in significant effects on the River Moy SAC.

The following Qualifying Interests have the potential to be affected by the proposed works both directly through habitat loss and disturbance and indirectly through water pollution causing habitat deterioration and through potential changes to the hydromorphology of the river.

- Alluvial forests with Alnus glutinosa and Fraxinus excelsior (91E0)*
- Austropotamobius pallipes (White-clawed Crayfish) [1092]
- Petromyzon marinus (Sea Lamprey) [1095]
- Lampetra planeri (Brook Lamprey) [1096]
- Salmo salar (Atlantic Salmon) [1106]
- Lutra lutra (otter) [1355]

3.1.2 Lough Conn & Lough Cullin SPA (004028)

The proposed flood relief scheme has potential to result in direct effects on the SPA. Whilst no physical works are being carried out within the SPA, the washlands are located partially within it and could potentially be directly affected through physical disturbance and habitat deterioration.

There is also potential for indirect effects such as water pollution to result in significant effects on the Lough Conn & Lough Cullin SPA.

The following SCI species have the potential to be affected:

- Aythya fuligula (Tufted Duck) [A061]
- Melanitta nigra (Common Scoter) [A065]
- Larus canus (Common Gull) [A182]
- Anser albifrons flavirostris (Greenland White-fronted Goose) [A395]
- Wetland and Waterbirds (A999)

3.2 LIKELY CUMULATIVE IMPACT OF THE PROPOSED DEVELOPMENT ON EUROPEAN SITES, INCOMBINATION WITH OTHER PLANS AND PROJECTS



In circumstances where it can be excluded, on the basis of objective information, that the proposed development, individually or in combination with other plans or projects, will have a significant effect on a number of European sites identified above, there is no possibility of likely cumulative impacts on those particular European sites arising as between the proposed development and other plans and project.

Where potential pathways for effects have been identified in Table 3.1, then the potential for cumulative effects resulting from the proposed development when considered in combination with other plans and projects, cannot be discounted at the screening stage and the potential cumulative impacts arising as between the proposed development and other plans and projects are required to be considered as part of a Stage Two Appropriate Assessment.

4 ARTICLE 6(3) APPROPRIATE ASSESSMENT SCREENING STATEMENT AND CONCLUSIONS

The findings of this Screening Assessment are presented following the European Commission's Assessment of Plans and Projects Significantly affecting Natura 2000 Sites: Methodological Guidance on the provisions of Article 6(3) and 6(4) of the Habitats Directive 92/43/EEC (EC, 2001) and Managing Natura 2000 Sites: the provisions of Article 6 of the 'Habitats' Directive 92/43/EEC (EC, 2018) as well as the Department of the Environment's Appropriate Assessment of Plans and Projects in Ireland - Guidance for Planning Authorities (DoEHLG, 2010).

4.1 DATA COLLECTED TO CARRY OUT ASSESSMENT

In preparation of the assessment, the following sources were used to gather information:

- Review of NPWS Site Synopses, mapping and Conservation Objectives for the various European Sites within the Likely Zone of Impact.
- Review of 2013 EU Habitats Directive (Article 17) Report.
- Review of OS maps and aerial photographs of the site of the proposed development.
- Review of relevant databases including National Biodiversity Ireland Database,
- Review of other plans and projects within the area.
- Liaison with the project team in relation to the design of the development.
- Extensive site visits conducted between 2012 & 2020



4.2 OVERALL CONCLUSIONS

It cannot be excluded beyond reasonable scientific doubt, in view of best scientific knowledge, on the basis of objective information and in light of the conservation objectives of the relevant European sites, that the proposed development, individually or in combination with other plans and projects, would be likely to have a significant effect on the following European Sites:

- River Moy SAC (2298)
- Lough Conn & Lough Cullin SPA (004228)

As a result, an Appropriate Assessment of the proposed development is required and a Natura Impact Statement has been prepared in respect of the proposed development.