Templemore Flood Relief Scheme 0.0 01/10/2020

Oct-20



Cor	npliance Rep	ort for the Schedu	le of Environmental Commitments			
EIS / NIS Reference	EIS / NIS Pg. No.	Impact	Specific Mitigation Measure	Specific Implementation Action	Responsibility	Status
		Human Reiner	Socio economic			
5.4.1			Access ramps will be constructed on some of the proposed embankments to maintain access to properties and land.		OPW	2024
5.4.1		Economic Ecology (terrest	rial and Aquatic)		OFW	2021
6.5.1	EIS p71	Siltation	The edge of the proposed embankment beside Templemore Lake will be a minimum of 5m from the boundary. No material will be stored within this buffer zone.		OPW/ Ecologist	2021
6.5.2	EIS p71		Hedgerow, tree-line and woodland vegetation that is to be retained will be clearly marked and fenced off to avoid accidental damage during excavations and site preparation. No materials should be stored within 5m of retained hedgerows/brees/woodland.		OPW/ Ecologist	l
		Birds / Biodiversity	The proposed Site works method statements will be reviewed and monitoring will be conducted by an			Ongoing
6.5.2 and 7.5.2	EIS p71,95	Environmental	Ecologist.	As per CEMP	OPW/ Ecologist	Ongoing
6.5.3	EIS p71	Otters	Construction works will follow the NRA's documents 'Guidelines for the Crossing of Watercourses during the Construction of National Road Schemes' (NRA, 2005) and 'Guidelines for the treatment of otters during the Construction of National Road Schemes' (NRA, 2006).	Otter survey conducted along existing river channel. No holts or resting places noted to date.	OPW/ Ecologist	Ongoing
			During vegetation clearance along drains and the Mall River, an Ecologist will resurvey this area specifically for otter. This will include assessing breeding activity within the site and a license application to the NPWS, if required.	As per CEMP. Weekly checks are undertaken. No holts	OPW/Ecologist	
6.5.3	EIS p71	Otters	application to the NPWS, it required. The Mall River corridor will not be blocked off especially at night.	or resting places noted to date.	OPW Ecologist	Ongoing
			Loss of potential forage habitat (riparian woodland and sections of hedgerow) during construction will			
			be compensated by native tree planting, the mix of which will be similar to existing tree! shrub species. Following the construction phase, replanting using native woody vegetation of local provenance, currently existing on site will be implemented, where hedgerow and riparian vegetation removal was significant. Where this is likely to recover, natural re-colonisation is preferable.		OPW/ Ecologist	
6.5.3 and 6.5.4	EIS p71, 72	Birds / Biodiversity	significant. Where this is likely to recover, natural re-colonisation is preferable.		OPW/ Ecologist	2021
			It is recommended that woody vegetation removal be undertaken <u>outside</u> of the main bird nesting period which begins on March 1 st and continues until August 31 st . A licence is generally required from the National Parks and Widlief Service under the Wildlife Acts 1976 and 2001 any habitat (e.g.	No licence required- confirmed with NPWS. Best		
6.5.4	EIS p72	Birds / Biodiversity	the National Parks and Wildline Service under the Wildline Acts 1976 and 2000 if any habitat (e.g. scrub, trees, hedgerows) to be removed is known to contain nesting birds.	practice employed.	OPW/ Ecologist	Ongoing
7.5.2	EIS p93.94	Aquatic species	The 'old' channel is to be modified to ensure that fish can no longer enter it and become trapped after a flood event. Any piped waste water discharges will be assessed in terms of waste assimilation capacity of the receiving water and treatment such as oil/water separation will be provided.		OPW	2021
			The timing of the works will be agreed in advance with the National Parks and Wildlife Service (NPWS) and Inland Fisheries (reland (IEI). The works are located within a river contridor used by			
7.5.2 and 3.10.3.2	EIS P94, NIS p31	Aquatic species	salmonids and lampreys for spawning. To protect salmon and trout it will be necessary to time works outside the window of October to May, Brook lampreys spawn in the spring and early summer months and the timing of works should also take this species into account.	Consultation ongoing with IFI	OPW/ Ecologist	2021
7.5.2 and 3.10.3.2	EIS p94,127, NIS p31	Aquatic species	No in-stream excavations or other works involving interference with the bed, bank or soil should take place outside of the immediate areas where the flood channel joins the Mall River.		OPW	Ongoing
T.O.L. BING ST. TO.O.L.	E10 p34,121,140 p31	энцико-аркона	The appointed contractor will be required to provide a detailed method statement showing how water quality impacts and habitat loss during the works will be minimised. The methodology will be			Singoling
7.5.2 and 3.10.3.3	EIS P94, NIS p31	Environmental	quarry impacts and natistations during the works will be minimised. The membracology will be approved by both the IFI and the NPWS prior to any works taking place. A translocation plan will need to designed and implemented prior to water being diverted into the new	Consultation with IFI ongoing.	OPW	Ongoing
7.5.2 and 3.10.3.3	EIS P94, NIS p31	Aquatic species / Biodiversity	channel.		OPW	2021
			The fisheries board documents "Maintenance and protection of the inland fisheries resource during road construction and improvement works. Requirements of the Southern Regional Fisheries Board" (Kilfeather, 2007) and "Requirements for the Protection of Fisheries Habitat during Construction and			
7.5.2 and 9.5.1 and 3.10.3.3	EIS p94,127, NIS p31	Fish	Development Works at River Sites' (Murphy, 2004) would also be followed where relevant.		OPW/ Ecologist	Ongoing
7.5.2 and 3.103	EIS p95, NIS p31	Siltation	A silt fence (or equivalent barrier) will be used to surround the works area. All necessary measures will be taken to prevent the release of oil, fuels or other pollutants into the Mall	Several silt fences have been installed in appropriate areas along the scheme works.	OPW/ Ecologist	Ongoing
7.5.2	EIS p95	Pollution	River.	As per CEMP	OPW/ Ecologist	Ongoing
7.5.1 and 9.5.1	EIS p93,127	Siltation	The works will be carried out during dry weather and halted during heavy rainfall to reduce suspended solids in the river. Spoil and removed vegetation material from the river is to be stored no less than 5m back from the		OPW/ Ecologist	Ongoing
7.5.2 and 9.5.1	EIS p95,127	Siltation	spin and removed vegetation material from the size of scale to fees in an animal back from the river and vegetation within this 5m buffer zone is to be retained, in order to reduce the run-off of suspended solids back into the water course.		OPW/ Ecologist	Ongoing
7.5.2	EIS p95, NIS p32	Invasive species / biodiversity	The machines being used to excavate the river may contain fragments of exotic invasive flora and therefore they will need to be cleaned at the start of the excavation of the river.	As per CEMP	OPW/ Ecologist	Ongoing
		,	Particular care will be taken when working near mature trees in order to protect roots extending into			
7.5.2	EIS p95	Birds / Biodiversity	the works site. Mature trees will be retained and scrub and hedgerow will be retained where possible. It will be important to ensure that the proposed weir is designed to be suitable for passage of brook	As per CEMP	OPW/ Ecologist	Ongoing
7.6	EIS p96	Aquatic Species	lampreys and white-clawed crayfish. A suitable solution would be to backfill the downstream end of the weir to create a 'rock ramp'.		OPW	2021
3.10.2.1	NIS p28	Fish	The flood channel will be designed to have a consistent gradient with no areas of pooled water where fish may become trapped after a flood event.	As per CEMP	OPW	Ongoing
		Soils and	Geology Settlement of runoff and groundwater from the construction site will be required as part of the site.			
8.5.1 8.5.1	EIS p115	Siltation Soil	Sementers or fution and groundwater from the chartcoard state will be required as paint or the site works. Works will be undertaken in accordance with CRRA 650 Emitionmental good practice on site. Planned construction works will be carried out with the minimum disturbance of soils.	Silt curtain installed where appropriate	OPW OPW	Ongoing
0.0.1		308	To minimise any impact on the underlying subsurface strata from material spillages, all oils, solvents and paints used during construction will be stored within specially constructed dedicated temporary			Ongoing
8.5.1	EIS p115	Pollution	bunded areas. Refuelling of construction vehicles and the addition of hydraulic oils or lubricants to vehicles, will take place in a designated area, away from surface water quilies or drains. Spill kits and hydrocarbon	Refuelling locations have been identified.	OPW	Ongoing
8.5.1	EIS p115	Socio / Economic	adsorbent packs will be stored in this area and operators will be fully trained in the use of this equipment.	Refuelling locations have been identified.	OPW	Ongoing
8.5.1	EIS p115	Socio / Economic	A detailed condition survey should be conducted on properties within 5m of the diversion prior to and post construction.	As per CEMP	OPW	Ongoing
8.5.1	EIS p115	Mainteance	The maintenance of the embankment should follow the framework and principles set out in 'Management of Flood Embankments, A good practice review' (DEFRA/EA, 2007).	As per CEMP	OPW	2021
		W	viter With regard to on-site storage facilities and activities, any raw materials, fuels and chemicals, will be			
9.5.1	EIS p126	Pollution	stored within structurally sound warehousing buildings and/or bunded areas if appropriate to guard against potential accidental spills or leakages. All equipment and machinery will have regular checking for leakages and quality of performance.	As per CEMP	OPW	Ongoing
9.5.1	EIS p126	Siltation	All potential run-off is to be diverted through appropriate settlement tanks/grit traps.	As per CEMP.	OPW	Ongoing
			The river channel works will be carried out during dry weather and halted during heavy rainfall events to reduce suspended solids in the river and flowing to other parts e.g. the River Suir. Spoil and removed vegetation material from the river is to be stored no less than 5 mb back from the river and			
9.5.1	EIS p127, NIS p31	Siltation	vegetation within this 5m buffer zone is to be retained, in order to reduce the run-off of suspended solids back into the watercourse.	As per CEMP	OPW/ Ecologist	Ongoing
9.5.2	EIS p127	Fish	Routine channel maintenance will be based on guidance from the Regional Fisheries Board Guidelines (Murphy, D.F., 2004) and the Fishery Guidelines for Local Authority works (1996) where appropriate.	As per CEMP	OPW	2021
9.5.3	EIS p127	Pollution	Strict monitoring of all potential polluting materials used will be maintained.	As per CEMP	OPW	Ongoing
		Noise and				
			The construction team will ensure that all plant items used during the construction phase will comply with standards outlined in European Communities (Construction Plant and Equipment) (Permissible Noise Levels) Regulations (1990). The miligation measures are outlined in BSS228: Noise Control on			
10.6.1	EIS p138	Human Health	Construction and Open Sites (2009), which offers detailed guidance on the control of noise from construction activities.		OPW	Ongoing
			Night time working will typically not occur, but there is the unlikely possibility that there may be a necessity to continue to operate generator, pumps or other equivalent machinery at a number of			
			locations, where excavations etc may cause activity to remain in one location for a longer period of time. On these infrequent occasions, should they arise at all, screening and enclosures can be utilised. For maximum effectiveness, a screen should be positioned as close as possible to either the noise ource or receiver. The acrean should be constructed of material with a maximum of the control of the contro			
10.6.1	EIS p138	Human Health	source or receiver. The screen should be constructed of material with a mass of x7kg/m2 and should have no gaps or joints in the barrier material. This can be used to limit noise impact to any noise sensitive receptors, if required by agreement with the local authority.		OPW	Ongoing

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10.6.1	EIS p139	Human Health	Appoint a site representative responsible for matters relating to noise, and establish channels of communication between the contractor / developer, local authority and resident it.e. for notification of requirement of night works, should this be required.		OPW	Ongoing
10.6.1	EIS p139	Human Health	Locate of noisy plant as far away from sensitive receptors, as permitted by site constraints.		OPW	Ongoing
10.6.1	EIS p139	Human Health	Noise and vibration monitoring works should be carried out during the construction phase to ensure adherence to the guidelines values for noise and vibration.		OPW	Ongoing
			Any construction works that have the potential to cause vibration at sensitive receptors will be carried out in accordance with the limit values as set out in Table 10-7 of the EIS at the most affected sensitive			
10.6.1	EIS p139	Human Health Air and	receptor.		OPW	Ongoing
		Air and	Site roads shall be requiarly cleaned and maintained as appropriate. Hard surface roads shall be			
			swept to remove mud and aggregate materials from their surface as a result of the development works. Any un-surfaced roads shall be restricted to essential site traffic only. Furthermore, any road that has the potential to give rise to fugitive dust may be regularly watered, as appropriate, during			
11.5	EIS p156	Human Health	extended dry and/or windy conditions. A full traffic management plan and usus management plan will be implemented into the Construction Environmental Management Plan (CEMP)		OPW OPW	Ongoing
11.5	EIS p156	Human Health	Vehicles using site roads shall have their speed restricted, and this speed restriction must be enforced	As per CEMP	OFW	Ongoing
11.5	EIS p157	Human Health	rigidly. On any un-surfaced site road and on hard surfaced roads that site management dictates speed shall be restricted to 20 km per hour	As per CEMP	OPW	Ongoing
			Material handling systems and site stockpiling of materials shall be designed and laid out to minimise exposure to wind. Water misting or sprays shall be used as required if particularly dusty activities are			
11.5	EIS p157	Human Health	necessary during dry or windy periods. In periods of dry weather when dust emission would be greatest, a road sweeper, which would also	As per CEMP	OPW	Ongoing
11.5	EIS p157	Human Health Landscape an	dampen the road, may be employed in order to prevent the generation of dust	As per CEMP	OPW	Ongoing
12.5.1	EIS p173	Visual Impact	Design ramps with gradual slopes and appropriate materials in order to minimise visual impact.		OPW	2021
12.5.1	EIS p174	Visual Impact	Use materials, pointings and finish to match the existing walls. The flood defence embankments should be rounded off at the top with a shallow grade and softened the control of the cont		OPW OPW	Ongoing
12.5.1	EIS p174	Visual Impact Birds / Biodiversity	with a seed mix to match the existing groundcover vegetation/grass.		OPW	2021
12.5.1	EIS p174	Birds / Biodiversity	The footprint for the embankment within the park should be designed to protect existing mature trees. Avoid the removal of mature trees during construction – protect trees being retained.		OPW OPW	2021 Ongoing
12.5.1	EIS p174	Birds / Biodiversity	Where removal of trees during construction is necessary they should be replaced with like size and type plants.		OPW	2021
12.5.1	EIS p174	Birds / Biodiversity	type plants. Provide new native planting in the vicinity of the weir where existing planting will be removed during construction.		OPW	2021
12.0.1	El3 p174		Potential visual impact can be minimised by removing the least amount of existing vegetation possible,		3/11	2021
12.5.2	EIS p174	Visual Impact	and by protecting any adjacent vegetation during construction. Route of diversion should follow any existing field boundaries in order to minimise any severance of	As per CEMP	OPW	Ongoing
12.5.2	EIS p174	Visual Impact	land/properties. Where removal of vegetation cannot be avoided, it should be replaced where possible in the same	As per CEMP	OPW	Ongoing
12.5.2	EIS p174	Visual Impact/ Biodiversity	location or nearby, and to the same size, on completion of construction works. Materials used in reinstatement of roads, pathways, and walls should be consistent with existing		OPW	2021
12.5.2	EIS p174	Visual Impact	surfaces and materials.		OPW	2021
12.5.2	EIS p174	Visual Impact	Construction work to be carried out speedily to minimise the impact on road users.		OPW	Ongoing
12.5.3	EIS p174	Visual Impact / Biodiversity	Where removal of vegetation cannot be avoided it should be replaced in approximately the same location with like size and type plants.		OPW/Ecologist	2021
12.5.3	EIS p174	Visual Impact	All flood defence embankments should be rounded off at the top with a shallow grade and grassed.		OPW	2021
12.5.3	EIS p174	Visual Impact	Stonework on new walls to be consistent with the stone already evident in the river walls.	Stonework agreed with Tipperary Co Co.	OPW	ongoing
12.5.3	EIS p174	Visual Impact Visual Impact	Stonework on new walls to be consistent with the stone already evident in the river walls. Materials used in reinstatement of roads, pathways, and walls should be consistent with existing surfaces and materials.	Stonework agreed with Tipperary Co Co.	OPW OPW	ongoing 2021
			Materials used in reinstatement of roads, pathways, and walls should be consistent with existing	Stonework agreed with Tipperary Co Co.		
12.5.3	EIS p174	Visual Impact	Materials used in reinstatement of roads, pathways, and walls should be consistent with existing surfaces and materials. Replacement of any planting removed during construction.	Stonework agreed with Tipperary Co Co.	OPW	2021
12.5.3	EIS p174	Visual Impact Visual Impact / Biodiversity	Materials used in reinstatement of roads, pathways, and walls should be consistent with existing surfaces and materials. Replacement of any planting removed during construction. Sets / Traffic Lisison with Transport Infrastructure Indiand (Till) to minimize the impacts upon the local traffic and transportation networks.	Stonework agreed with Tipperary Co Co. As per CEMP	OPW	2021
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Templemore Flood Relief Scheme 0.0 01/10/2020



Compliance Report for the Schedule of Environmental Commitments						
EIS / NIS Reference	EIS / NIS Pg. No.	Impact	Specific Mitigation Measure	Specific Implementation Action	Responsibility	Status