



Location: Tralee, Co. Kerry			Unique ID: 230361 (from PFRA database)			
Initial OPW Designation	APSR ⊠	AFRR 🗌		IRR 🗌		
Co-ordinates	Easting: 82750	asting: 82750 No		thing: 114000		
River / Catchment / Sub-catchment	Lee River & Big River/ North Kerry Tralee Bay					
Type of Flooding / Flood Risk (identify all that apply)	Fluvial non-tidal ⊠ Fluvial tidal ⊠ Coastal □					

Stage 1: Desktop Review

1.1 Flood History (include review of Floodmaps.ie)

River Flow Path

The Big River Corridor and its tributary, which comes from the northeast environs runs to the town centre. There are also a number of smaller tributaries of the River Lee, which flow broadly north into the Lee. The Lee itself flows west along the southern edge of the town, before entering an extensive tidal to the west.

There is a canal running from the town centre to Blennerville.

Flood Records

There are 14 flood event records 7 of which are recurring and 7 are singular flood events.

The recurring flood events are primarily in the centre of the town in proximity to the Mall area. There are also recurring flood events along the N86 south of the Tralee.

There are a number of detailed reports including maps dated from 1973 to 2011. The most recent flood records are from 2008, 2009 and 2011:

2008 - Caherweesheen TD, Ballyard, Tralee

- The source of the flood waters was general surface water run-off during exceptionally heavy rainfall and overflowing of river banks (hindered in part by inadequate pipe / culvert capacity along a section of stream).
- One house flooded with three at risk & Farm buildings flooded
- L 6516 flooded and was impassable

2009 Floods - Curragraigue TD, Blennerville, Tralee

- The source of the flood waters was general surface water run-off during exceptionally heavy rainfall (and the cause was an inadequate pipe / culvert capacity).
- Local GAA Clubhouse flooded to depth of 300mm

2011 Floods - Kearney's Road (L 6513) Blennerville

- The source of the flood waters was a tidal flooding in the River Lee estuary, Tralee Basin.
- Road 200m of L6513 was flooded during high tide period





1.2 Relevant information on flooding issues from OPW and LA staff

PFRA database comments (in italics):

OPW comments

Town drainage scheme still significant risk due to diversion channel size and later development

LA comments

Big River (Worse Case)

Meeting / discussion summary comments:

OPW comments

- Long history of flooding and scheme constructed in 1980s.
- The OPW provided a Paper on Tralee Flood Defence Scheme.
- Flooding from the Big River and Lee River.
- Numerous bridge crossings and a river diversion.
- Lots of information on floodmaps.ie.
- · Complex flooding problem.

LA comments

 Concern expressed that possibly, the river diversion from the Big River to the River Lee has meant that there is now less capacity in the River Lee, and hence there is possibly an increased flood risk on the east and south side of Tralee.

1.4 PFRA Data

1.4.1 PFRA hazard mapping	PFRA mapping available in GIS layer: PFRA mapping included on FRR map:	Yes No Yes No		
1.4.2 Summary of Principal Receptors	Туре	FRI score (if available)		
	Primary	1050		
	Post Primary	277.5		
	Fire	250		
	Garda	25		
	Civil	25		
	OPW (LV)	20.1		
	OPW (MV)	25		
	Nursing	50		
	Hospital	250		
	Health Centre	25.25		
	Exchange	11		
	Arch LW	64.2		
	Arch RW	1939.6		
	Arch NW	127.5		
	Total	49030.51		





1.7 Stage 1 Evaluation	Aspect	Clearly APSR	Uncertain
	Flood History (1.1)	x	
	OPW / LA Information (1.2)	X	
	PFRA Evaluation (1.4)	X	
	Overall Desktop Evaluation (if any above aspect is uncertain then overall designation is uncertain)	x	
1.8 Proposed level of assessment for Stage 2 site visits	Level A Site Visit		
	Level B		





Stage 2: Site Inspection		Level B Assessment					
Date and Time of Inspection			<u> </u>	Date: 25/05/2011 Time: 16:00			
Names of inspection team (including OPW/LA staff if present)		lain Blackwell					
		Kelly Kasperczyk					
		Г					
2.3 Local	nito.	Bateman's Green Resident (d/s of the Big River diversion)					
knowledge - on-s comments	site	No known issues of flooding at this location (bridge crossing of the Big River at Chesnut Drive, east of the N69 (Oakpark Road)). The road into					
(OPW, LA and any		Bateman's Green (right bank) was partially collapsing at one stage and					
info volunteered local residents	by	residents arranged for some remedial works – rock bank protection is now in place on the right bank (approx 10m in length).					
during visit)		Fly tipping is a problem a	t the river banks.				
2.4 Comments of hydraulic	n	Single arch bridge of the Big (N69): Both banks are heavily		een and th	e Oakpark Road		
constrictions	_	Fly tipping at u/s of single arch bridge at Bateman's Green: Both banks are					
(bridges, etc.) an conveyance rout		heavily vegetated.					
,		The R551 bridge north of Ashe Street has a rope extending from the right to left bank – this is catching debris. This is a single arch bridge.					
		Single arch bridge of a tributary of the Lee (Hillard's Bridge) on Kearney's Road (L6513) south west of the town. The road at this location is known to flood.					
		U/s of the Lee adjacent to the AquaDome, the Lee is first crossed by a single span rail bridge, then by a single span bridge (Ballyard Road).					
		Low box bridges on a tributary of the Lee, west of the town along the N21. The outfall of the Big River diversion (high flows) is recorded to be u/s of these crossings. This was not identified during the site visit (no access possible).					
2.6 Defence Asse	ets						
Formal and	•	en Channel Watercourses					
Informal Flood Defence Assets			lood relief channe rainage channels		Canal 🛛		
(include effective and ineffective	Mill leat						
assets to inform	Single Arch bridge ⊠ Multi-Arch bridge ⊠						
asset survey and potential			lulti-Span bridge ipe culvert(s)		Arch Culvert(s)		
mitigation measures)	Culverted Watercourses (culvert length is greater than just a crossing)						
	Box culvert(s) ☐ Pipe culvert(s) ☐ Arch Culvert(s) ☐ Irregular Culvert(s) ☐						
	Walls and Embankments						
	Embankment(s)						
			s, dams djustable weir		Dam / Barrage		
	Slui		ock gates	\Box	Radial gates		





	Off-line storage	е 🗌
outfall(s) stuary / s	into watercourse ea	e 🗌
	Canal Dunas	
	Sand Dunes	Ц
and tov	vards a tributary	of
Map Photos		
Sept file Alus Fi	Map Photos	
	outfall(s) stuary / s	outfall(s) into watercourse stuary / sea Sand Dunes Sand Dunes Sand towards a tributary ne site visit (locked access Photos Photos Photos





2.8 Initial Potential Mitigation Measures								
Non-structural measures	Sustaina Flood fo Change Public av Individua	and Developing and Developing I or	inage Syst rning rocedures paign tection	ems	er level	control:		
Structural measures	(integrate Storage Flow diverse Flood de Localise Mainten Relocate Improve	c developmention of measures: version: Flooder conveyance efences: ed works: ance works: ion of properte existing defe	es into strai d relief cha : Bridge w V Defence Culvert / ch	tegic der On-line [nnel [orks [Valls [raising [velopm	ent proposa Off-line Flood relief Channel wo Embankme In-fill gaps	<i>ls)</i> □ □ culvert orks □ F ents □	□ Floodplain □ ash screen□ ance □
Outcomes								
Recommended Designation		APSR 🖂		not an A	APSR		IRR	
Summary Comments (if required)		Tralee is com Lee River, as significant cul	well as tida	al influer	nces on	the Lee Riv	er. There	







Photo 1: Crossing of the River Lee west of Tralee centre



Photo 2: West of Tralee looking u/s on the River Lee



Photo 3: Looking u/s on the river diversion east of Tralee



Photo 4: Crossing of the Big River NE of Tralee looking d/s







Photo 5: Looking u/s of the Big River in the northern centre of Tralee



Photo 6: Looking d/s on the River Lee south of Tralee, property at same level as river bank

