

## **Preliminary Synopsis of the WFD Surveillance Monitoring Fish Stock Survey on Templehouse Lake in the Western River Basin District, September/October 2014**

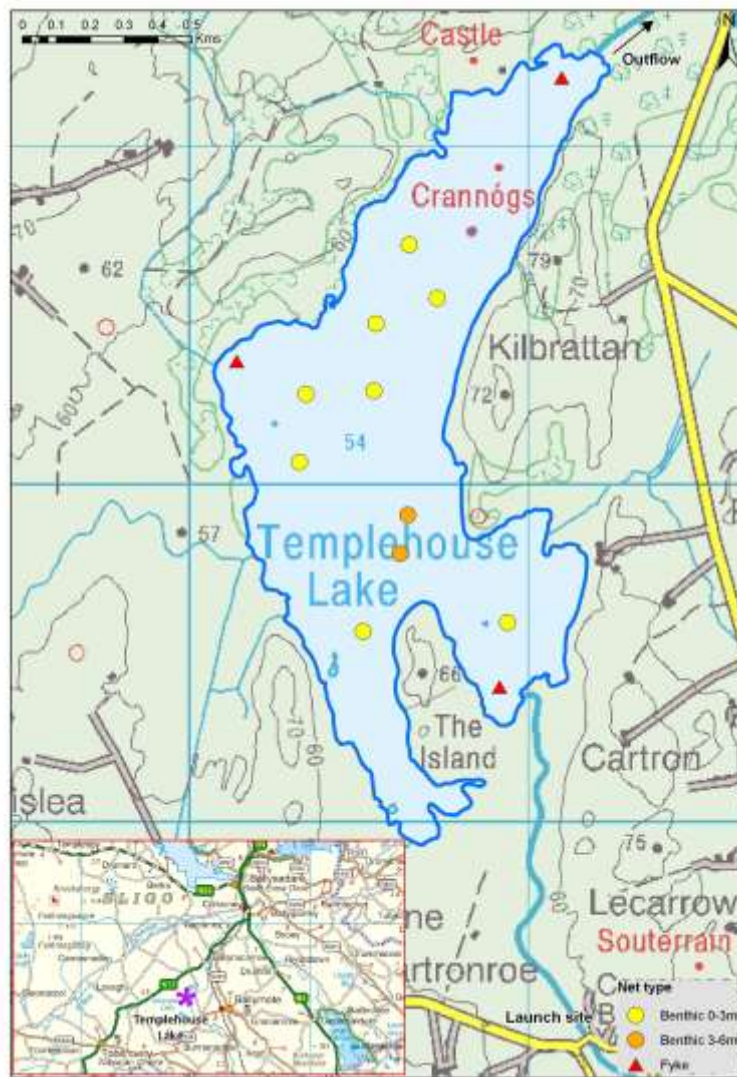
### **1.1 Introduction**

A WFD fish stock survey was conducted on Templehouse Lake (Fig. 1) from the 30<sup>th</sup> of September to the 2<sup>nd</sup> of October 2014 by staff from Inland Fisheries Ireland as part of the programme of surveillance monitoring for the Water Framework Directive.

### **1.2 Methods**

Templehouse Lake was surveyed over two nights between the 30<sup>th</sup> of September and the 2<sup>nd</sup> of October 2014. A total of three sets of Dutch fyke nets and 10 benthic monofilament multi-mesh (12 panel, 5-55mm mesh size) CEN standard survey gill nets (8 @ 0-2.9m and 2 @ 3-5.9m) were deployed in the lake (13 sites). Nets were deployed in the same locations as were randomly selected in the previous surveys in 2008 and 2011. A handheld GPS was used to mark the precise location of each net. The angle of each gill net in relation to the shoreline was randomised.

All fish apart from perch were measured and weighed on site and scales were removed from all roach, pike and roach x bream hybrids. Live fish were returned to the water whenever possible (i.e. when the likelihood of their survival was considered to be good). Samples of fish were retained for further analysis.



**Fig. 1. Location map of Templehouse Lake showing locations and depths of each net (outflow is indicated on map)**

### 1.3 Results

A total of four fish species and one type of hybrid were recorded in Templehouse Lake, with 540 fish being captured. The number of each fish species recorded is shown in Table 1.

**Table 1. Number of each fish species recorded in Templehouse Lake, September/October 2014**

Scientific name	Common name	Number
<i>Rutilus rutilus</i>	Roach	379
<i>Perca fluviatilis</i>	Perch	93
<i>Rutilus rutilus x Abramis brama</i>	Roach x bream hybrid	52
<i>Esox lucius</i>	Pike	8
<i>Anguilla anguilla</i>	Eel	8

### 1.4 Further work

Perch will be measured and weighed and opercular bones will be removed in the laboratory and all fish will be aged after the fieldwork season has ended. Catch per unit effort (CPUE), biomass per unit effort (BPUE) and age profiles will be calculated for all fish species and a more detailed report will be available in 2015.