Lady's Island Lake Feeder Streams

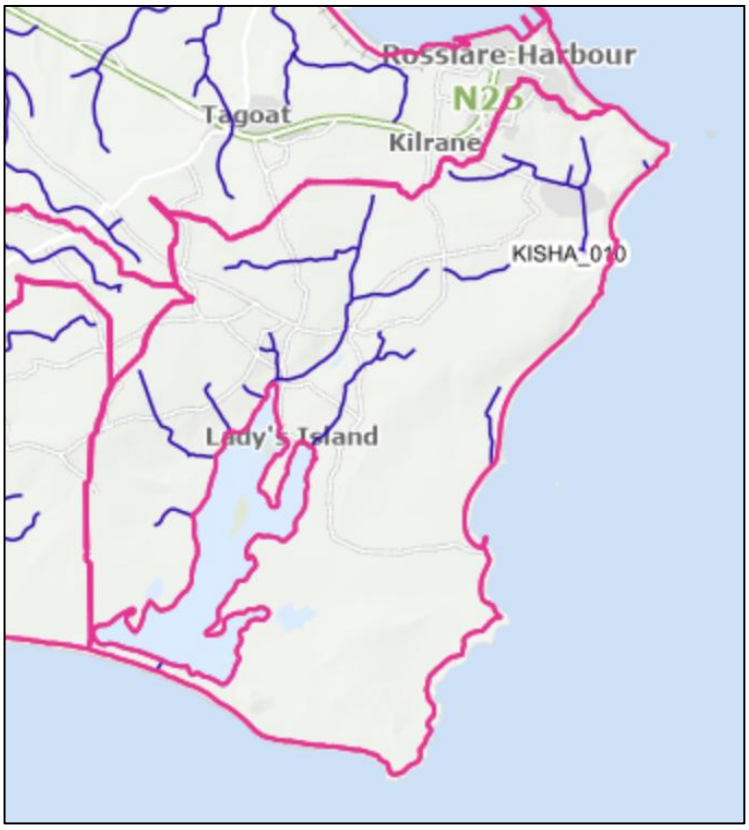
1. INTRODUCTION

Lady's Island Lake and its feeder streams are featured below (Figure 1).

Figure 1. Lady's Island Lake and its feeder streams. Grid side = 1km.

(Source: Scan of part of hard copy of Tailte Éireann Discovery Series Sheet 77)

While Figure 1 features Lady's Island Lake and its feeder streams admirably, the Discovery series is not listed among the twelve map types that comprise the GeoHive Map Viewer basemap gallery (https://www.arcgis.com/apps/webappviewer/index.html?id=3ae19cc156bf4706a929304bf8fcc4f6).



The National Map, launched in 2015 by Tailte Éireann, is Ireland's spatial reference framework (https://tailte.ie/services/the-national-map/) and GeoHive is its hub and database of geospatial information (https://www.geohive.ie/).

The GeoHive Map Viewer (Figure 2) features seven 'Water Framework Directive River Waterbodies, EPA' (dark blue) and the relevant 'WFD River Sub-Basin, EPA' (edged pink) with the MapGenie Standard used as the basemap. The same seven waterbodies are featured on the Discovery sheet (Figure 1).

Figure 2. Seven feeder streams at Lady's Island Lake.

(Source: https://www.arcgis.com/apps/webappviewer/index.html?id=3ae19cc156bf4706a929304bf8fcc4f6)

2. HYDROLOGICAL CONTEXT

Lady's Island Lake is classified as a transitional waterbody in the following five water regions (https://gis.epa.ie/EPAMaps/ Water / Water Regions).

1. **Hydrometric area**. Lady's Island Lake is in hydrometric area (HA) No 13, name 'Ballyteigue-Bannow', code IESE, area = 654km^2 (Figure 3, top, edged bold blue line).
2. **Catchment**. The European Union (EU) Water Framework Directive (WFD) catchment differs slightly from the hydrometric area; it has the same name and code, but a slightly different boundary and area (660.05006414km^2).
3. **Subcatchment**. The catchment is divided into five subcatchments. The subcatchment that contains Lady's Island Lake is named KISHA_SC_010, identification code 13_4. That subcatchment extends eastwards from the estuary of the Duncormick River to Carnsore Point. In Figure 3, (middle) the darker blue line delineates the hydrometric area boundary, and the paler blue line delineates both the catchment and the subcatchment boundaries.
4. **River sub basin**. The Lady's Island Lake WFD river sub basin is named KISHA_010, EU code IE_SE_13K140950, area = 29.69559179km^2 (Figure 3, bottom, edged by the feint yellow line).
5. **Lake catchment**. The lake catchment (Figure 4) is the part of the river sub basin that drains to Lady's Island Lake. Its area is 19km^2 approximately (19.16km^2 (O'Connor *et al*., 2024 pages 2-3) and 18.9km^2 (MW&P, 2012 page 5).

Figure 3. Lady's Island Lake water regions.

3. SEVEN RIVER WATERBODIES

Currently, pursuant to the WFD, the Environmental Protection Agency (EPA) maps seven named river waterbodies discharging to the lake [https://gis.epa.ie/EPAMaps/ Water / Water Features / Flow Network (indicative)]. Figure 4 shows Lady's Island Lake (darker blue fill), the seven EPA feeder streams (lighter blue), the catchment of the lagoon (pale orange fill), and its indicative watershed (red line; after O'Connor *et al*., 2024 page 2, Figure 2.1 and Figure 5 below).

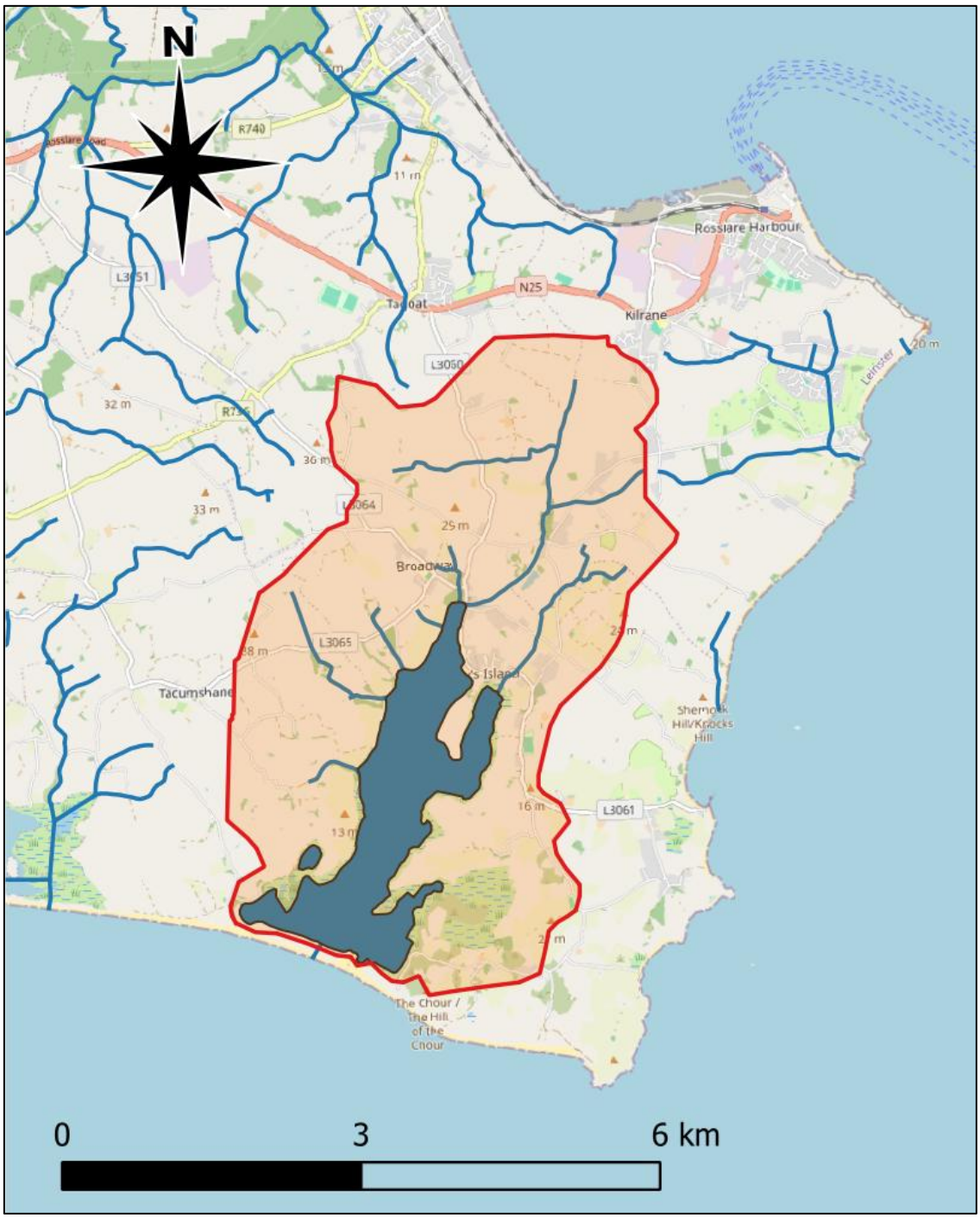


Figure 4. Lady's Island Lake and river waterbodies.

Figure 5. Catchment of the lagoon with the watershed in red.

(Source: O'Connor *et al*., 2024 page 2, Figure 2.1)

4. TWELVE FEEDER STREAMS

When Environmental Protection Agency (EPA) staff conducted water quality monitoring during the period 1984-2006 they sampled 12 feeder streams (Nos 1-12) (Figure 6).

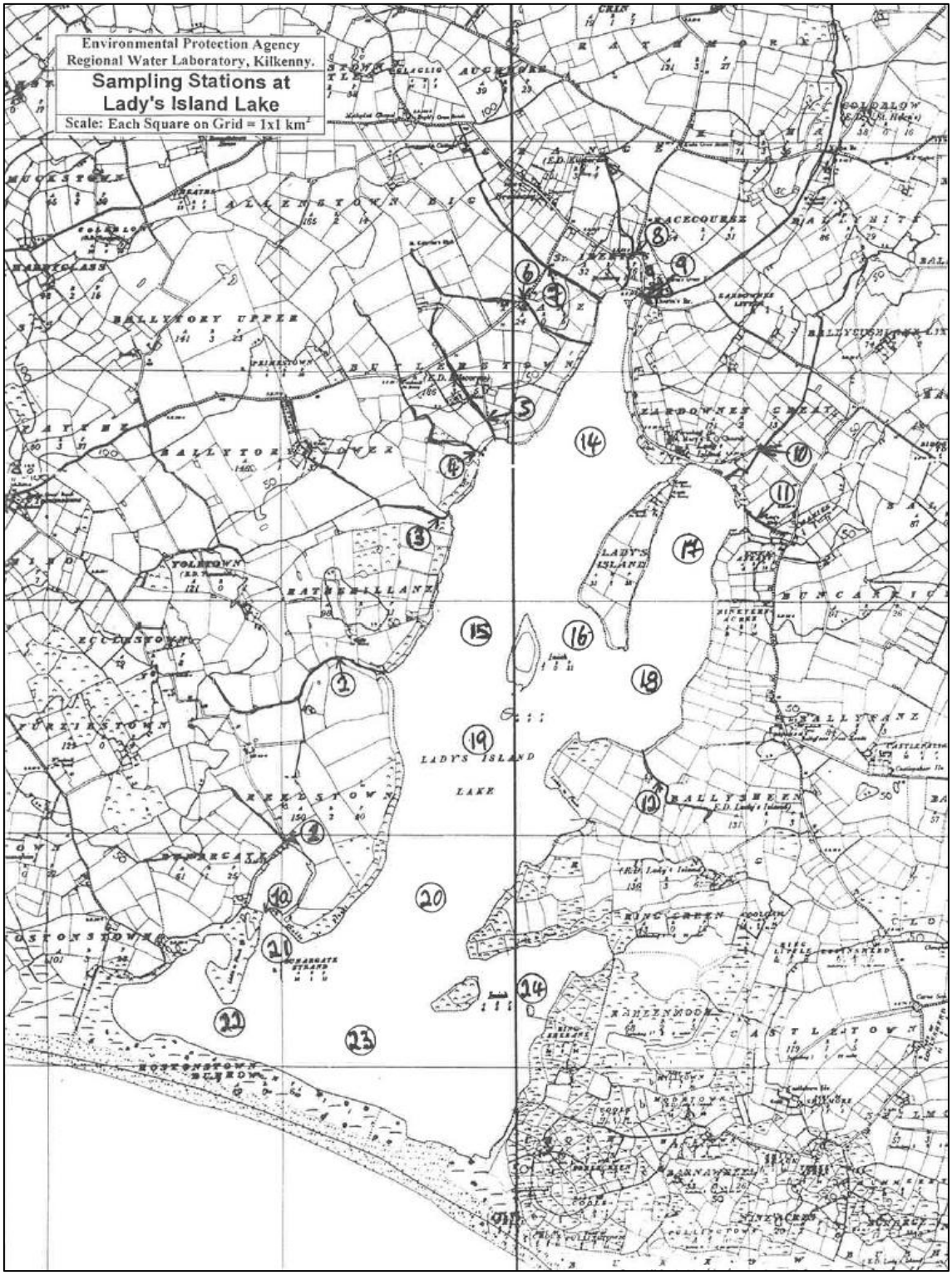


Figure 6. EPA feeder stream sampling stations numbered 1-12 at Lady's Island Lake.

(Source: Neill, 2006 page 7)

The source of the EPA map (Figure 6) appears to be the 1930s edition of the six-inch series with the feeder streams emboldened manually. Of the 12 original EPA feeder streams (Figure 6), seven are featured under the WFD as river watercourses and five are not (1, 4, 7, 11, and 12). When Wexford County Council (WWC) staff conducted water quality monitoring they also sampled the original 12 EPA feeder streams (Figure 7). The highlighting of portions of the feeder streams by WCC appears to follow that shown on the original EPA map (Figure 6) with some variations.

Figure 7. WWC feeder stream sampling stations 1-12 at Lady's Island Lake.

(Source: Wexford County Council)

The accompanying table (Table 1, right) reconciles the numbers of the twelve feeder streams traditionally monitored by both the EPA and WCC (Figure 7) with the seven named river waterbodies recognised by the EPA for WFD monitoring and reporting purposes.

Table 1. Twelve river waterbodies.

No	EPA	WCC	WFD	No
1	✓	✓	-	1
2	✓	✓	✓	2
3	✓	✓	✓	3
4	✓	✓	-	4
5	✓	✓	✓	5
6	✓	✓	✓	6
7	✓	✓	-	7
8	✓	✓	✓	8
9	✓	✓	✓	9
10	✓	✓	✓	10
11	✓	✓	-	11
12	✓	✓	-	12

For the purposes of this report, it is taken that:-

- There are twelve feeder streams.
- There are twelve water quality monitoring stations, one at, or close to, the mouth of each of these twelve streams. Station No 11 is Our Lady's Well and is sampling groundwater. WCC has a 13th surface water quality monitoring station in the townland of Raheenmoor (Figure 8).

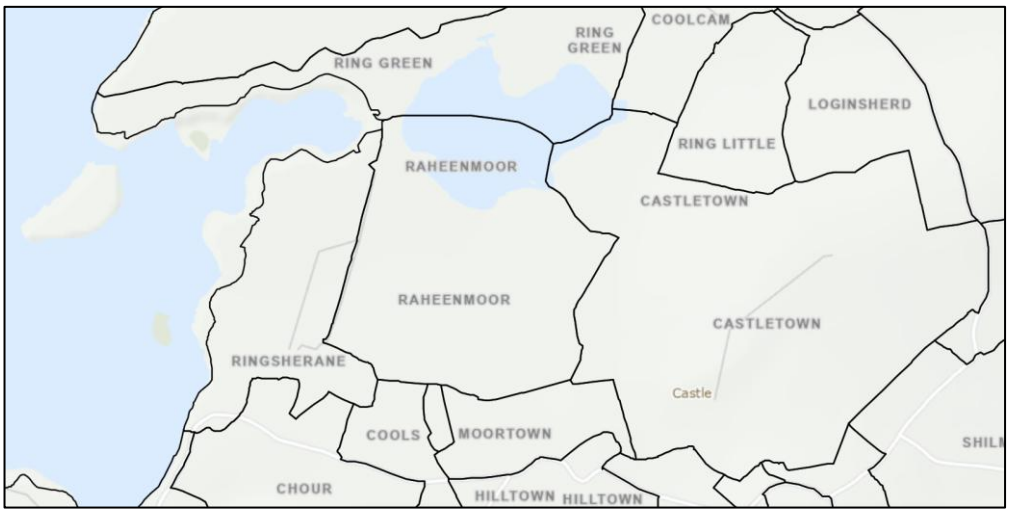


Figure 8. Raheenmoor townland.

- Seven of the twelve streams are designated WFD river waterbodies.
- There are twelve feeder stream catchments, or sub-catchments, within the catchment of Lady's Island Lake.

5. PRIORITISED AREA FOR ACTION

Pursuant to the River Basin Management Plan for Ireland 2018 – 2021 (RBMP), 190 Priority Areas for Action have been selected. One of these Priority Areas for Action, the 'Wexford Coastal Lagoons', comprises Tacumshin Lake and Lady's Island Lake (DHPLG, 2018 page 138, Map 13.1 and page 157, Appendix 2) (Figure 9).

Figure 9. Wexford Coastal Lagoons Area for Action.

(Source: https://gis.epa.ie/EPAMaps/Water?gext=298880,103559,315250,112000&lid=EPA:WFD_AreasForAction)

The following seven steps are listed in the Area for Action process (https://www.catchments.ie/data/#/areaforaction?_k=a8b311):-

1. Open.
2. Desk Study completed: a desk study has been completed by the LA Waters Programme.
3. Initial Public Engagement completed: community meetings have been held by the LA Waters Programme in advance of any field work.
4. Further Characterisation Actions completed: A Local Catchment Assessment has been completed by the LA Waters Programme.
5. Significant Pressure Referrals completed: Local Catchment Assessment has identified a suspected significant pressure. This has been referred to an organisation with responsibility for this pressure. This can be a request for information, to implement mitigation actions, or to follow up with a third party (e.g. licensee).
6. Significant Pressure Actions completed: Actions have been agreed and completed by all relevant organisations.
7. Completed.

With regard to Lady's Island Lake, work on the seven-step process started in 2020 (https://www.catchments.ie/data/#/areaforaction?_k=a8b311).

6. MONITORING

6.1. The Lagoon

Lady's Island Lake is National Water Monitoring Station TW33002090LI1001 for Water Framework Directive (WFD) reporting on transitional waters. No water quality results were published for the period 2018-2020 (https://gis.epa.ie/EPAMaps/ Water / Water Quality / Transitional Waterbody).

WFD status for the transitional waterbody (European Code: IE_SE_060_0100) was rated '*Poor*' for the period 2013-2018 and '*Poor*' again for the period 2016-2021 and the lagoon was rated '*At risk'* of not achieving '*Good*' water quality status (https://gis.epa.ie/EPAMaps/ Water / Water Framework Directive / Transitional Waterbody).

6.2. The Feeder Streams

The road bridge at St Iberius on L3060 is Station RS13K140950 (Kisha) for monitoring river water in the feeder streams. For EPA reporting purposes, all seven WFD feeder streams share the same WFD code: (IE_SE_13K140950) and the same WFD name: (Kisha_010). The same code is also used for other waterbodies that do not drain to Lady's Island Lake but are in the Kisha river sub basin. Recent water chemistry results for the Kisha watercourse at the St Iberius Bridge sampling station can be downloaded at https://www.catchments.ie/data/#/waterbody/IE_SE_13K140950?_k=20gb0c. Q values for biological sampling are not available (https://epawebapp.epa.ie/qvalue/webusers/). River water status for each of the reporting periods 2007-2009, 2010-2012, and 2019-2015 was '*Unassigned*', and for both the periods 2013-2018 and 2016-2021 was estimated to be '*Moderate*' based on '*Expert judgement (low confidence)*' (https://gis.epa.ie/EPAMaps/Water?gext=68644,253376,73198,257418&lid=EPA:WFD_RIVERWATERBODIES_CYCLE3) (summary below: Table 2). The water quality risk in all seven feeder streams is returned as 'Review' (https://gis.epa.ie/EPAMap/s / Water / Water Framework Directive / River Waterbodies Risk).

Catchment Code:	13
Waterbody (WB) Code:	IE_SE_13K140950
WB Name:	KISHA_010
WB Type:	River
Local Authority:	Wexford County Council
Protected Area:	SAC; SPA;
Status 10-15:	Unassigned
Status 13-18:	Moderate
Status 16-21:	Moderate
Environmental Objective:	Good
Environmental Objective Date:	2022-2027
WFD Risk 16-21:	Review
Significant Issue(s):	-
Significant Pressure(s):	-
Area for Action (AFA):	Wexford Coastal Lagoons
AFA (lead, type):	LAWPRO, Restoration
Link to WB page on catchments.ie:	https://www.catchments.ie/data/#/waterbody/IE_SE_13K140950?_k=20gb0c
Link to WB on EPA Water Map:	https://gis.epa.ie/EPAMaps/Water?gext=308845,104819,315038,111293&lid=EPA:WFD_RIVERWATERBODIES_CYCLE3

Table 2. Summary 2024 data for the Lady's Island Lake feeder streams.

(Source: https://www.catchments.ie/data/#/catchment/13?_k=dewqvn)

7. TWELVE SUB-CATCHMENTS

The catchments of all twelve feeder streams are featured below in a clockwise direction starting at the south-western corner of the lagoon.

The WCC Map Viewer gives the following dates for four referenced basemaps:-

- six-inch black and white as 1829-41,
- six-inch colour as 1829-41,
- 25-inch as 1897-1913, and
- the latest edition six-inch as 1930s.

With regard to flow direction arrows for watercourses, the six-inch historical maps do not feature any of the twelve watercourses, the 25-inch map features eleven of the twelve (No 1 missing), and the latest edition six-inch map features all twelve.

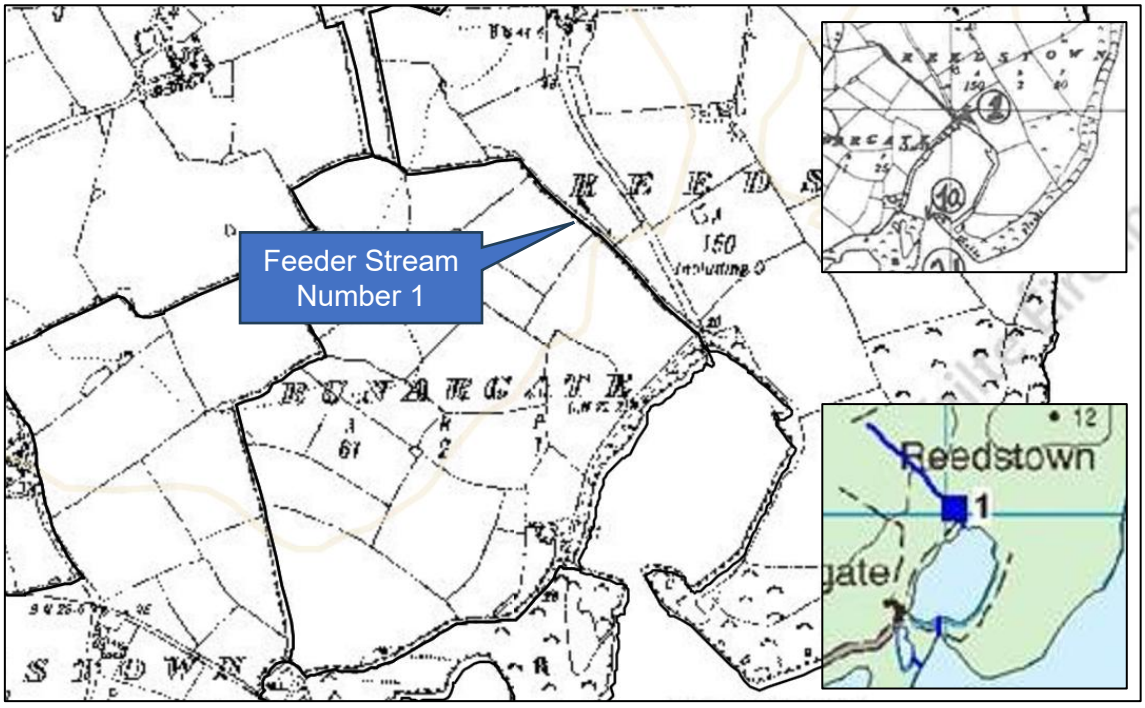
The following template (Table 3) is used to describe the twelve feeder streams and their catchments.

Parameter	Sources
Location image	The following five map sources are used in order of their relevance to the stream in question:- • Figure 1: Discovery sheet (for better image quality, extracts are sourced from Wexford County Council's iMaps 2025 open data public viewer basemaps at https://experience.arcgis.com/experience/87a80ce044604a1e8616e73ab1625744). • Figure 4: EPA (for better image quality, extracts are sourced from https://gis.epa.ie/EPAMaps/). • Figure 6: Neill series of reports. • Figure 7: WCC. • Historical maps (sourced from the GeoHive Map Viewer basemap gallery at https://www.arcgis.com/apps/webappviewer/index.html?id=3ae19cc156bf4706a929304bf8fcc4f6).
EPA data	EPA webpage https://gis.epa.ie/EPAMaps/ / Water / Water Features / Flow Network (Indicative) for Segment code, EPA Name, EPA Code, Stream order, and Segment length. Segments are ordered clockwise from the discharge point of the watercourse.
Characteristics	Description, including where the stream rises, its direction of flow, its discharge point, etc.
Catchment area	O'Connor *et al*., 2024 pages 2-3 and MW&P, 2012 page 5. The total area of the lake's catchment is 19.16km^2. (O'Connor *et al*., 2024 pages 2-3). The sub-catchment sizes of the seven WFD feeder streams given sums 10.18km^2.

Water quality data	• Neill, 1984 (chemical analysis of water samples collected in April, May, July, and September, and biological monitoring conducted on 9 July) and • WCC, 2025 (chemical analysis of water samples collected on 28 April 2025).

Table 3. Parameters and sources template.

7.1. **Feeder Stream Number 1**



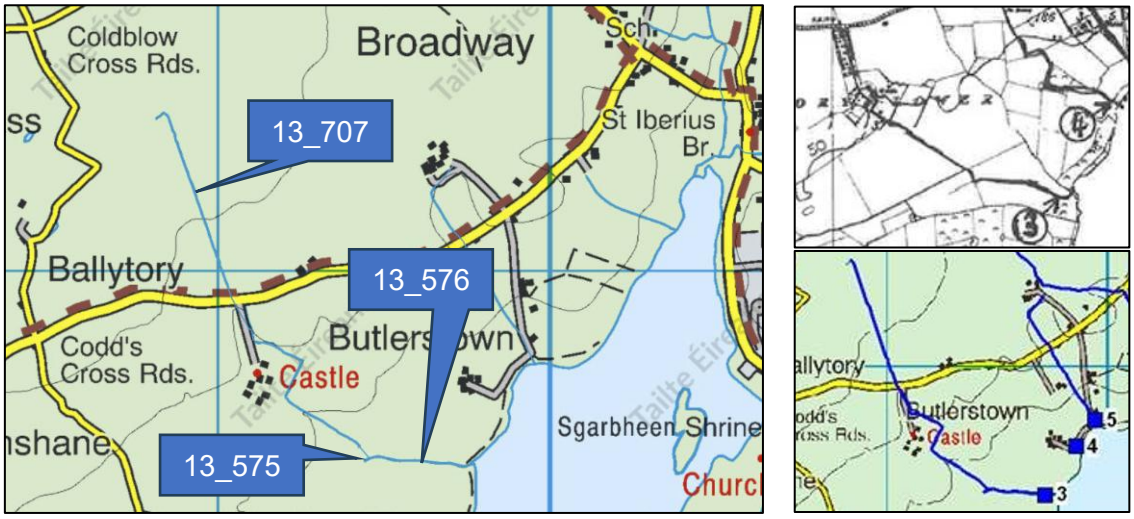
Parameter	Sources
Location image	Not featured on Figure 1 or Figure 4. Basemap = MapGenie 6 Inch Last Edition Black. Layer List = Townlands + Contours with extracts of Figure 6 (top right) and Figure 7 (bottom right) inset.
EPA data	None.
Characteristics	**Rises**: Unclear; the short watercourse appears to flow from a spring, pond or marl hole before it crosses the 10m contour line. On the location image above, the watercourse appears to be the main land drain that forms the north-eastern boundary between the townlands of Bunargate (south) and Reedstown (north). **Direction of flow**: Southeasterly. **Discharge point**: The drain discharges to the northern extremity of Scallan's Pool at the point after it crosses an agricultural access route and laneway.
Catchment area	Unknown.
Water quality data	1984: **Chemical Analyses**: *"This is a small drain which was completely dry on most sampling dates. It was not sampled."* (Neill, 1984, page 2). **Biological Quality**: Not suitable for biological sampling (Neill, 1984, pages 2-3). **Synopsis**: "*Stream too small for sampling*." (Neill, 1984, page 4).

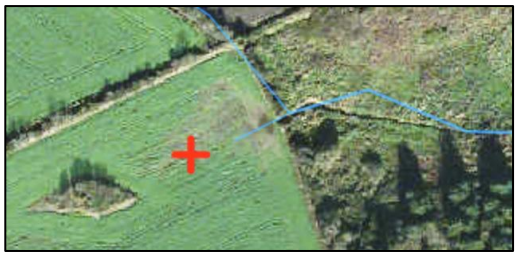
	2025: Flagged for elevated BOD (2mg/l) and elevated orthophosphate (0.04mg/l) (WCC, 2025).

7.2. **Feeder Stream Number 2**

Parameter	Sources
Location image	Figure 1 (= Figure 4) and extracts of Figure 6 (top) and Figure 7 (bottom) adjoining.
EPA data	One segment: **Segment code**: 13_258. **EPA Name**: Strand. **EPA Code**: 13S17. **Stream order**: 1. **Segment length**: 567m.
Characteristics	**Rises**: Near the 10m contour line. **Direction of flow**: Variable easterly. Its course defines the townland boundaries between first Reedstown/Yoletown and then Reedstown/Rathshillane. **Discharge point**: On the Reedstown/ Rathshillane townland boundary on the lake shore.
Catchment area	1.23km^2.
Water quality data	1984: **Chemical Analyses**: *"Flows through a marshy area before entering the lake, Phosphate levels are high and B.O.D. and ammonia levels are elevated at times. Very little flow."* (Neill, 1984, page 2). **Biological Quality**: Not suitable for biological sampling (Neill, 1984, pages 2-3). **Synopsis**: "*Intermittent pollution indicated by chemical results (unsuitable for Biological Monitoring)*." (Neill, 1984, page 4). 2025: Flagged for elevated nitrate (3.9mg/l) and elevated orthophosphate (0.06mg/l) (WCC, 2025).

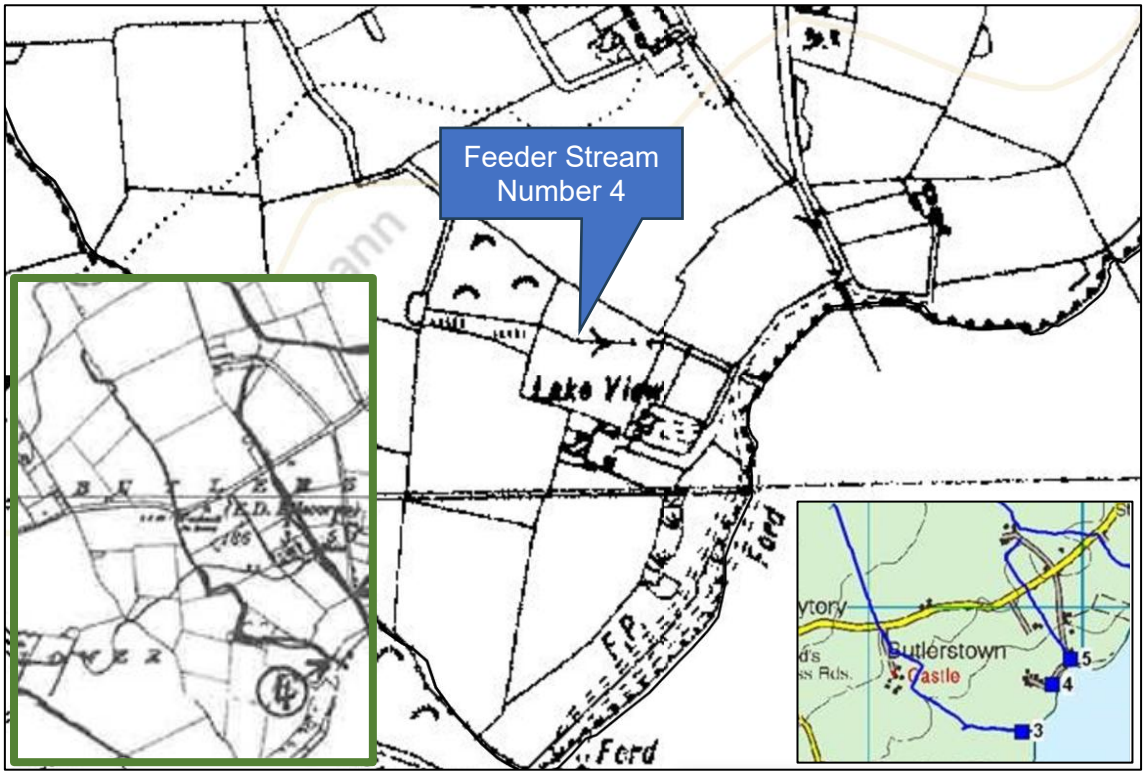
7.3. **Feeder Stream Number 3**



Parameter	Sources
Location image	Figure 1 (= Figure 4 minus the bend on top) and extracts of Figure 6 (top) and Figure 7 (bottom) adjoining.
EPA data	Three segments:- 1. **Segment Code**: 13_575. **EPA Name**: Lady's Island. **EPA Code**: 13L10. **Stream order**: 1. **Segment Length**: 28m (image right).  2. **Segment Code**: 13_707. **EPA Name**: Trane. **EPA Code**: 13T12. **Stream order**: 1. **Segment Length**: 1299m. 3. **Segment Code**: 13_576. **EPA Name**: Trane. **EPA Code**: 13T12. **Stream order**: 2. **Segment Length**: 306m.
Characteristics	**Rises**: Above the 30m contour line in the townland of Ballytory. **Direction of flow**: Variable south-easterly crossing the public road. **Discharge point**: At the Ballytory Lower/Butlerstown townland boundary on the lake shore.
Catchment area	1.18km^2.
Water quality data	1984: **Chemical Analyses**: *"Very small stream, chemical results indicate satisfactory quality."* (Neill, 1984, page 2). **Biological Quality**: "*A small (0.5m wide x 0.05m deep) moderate to slow flowing stream with gravel and sand*

	substrate. Fauna diversity – low. Doubtful-poor quality (Q2-3) indicated by macroinvertebrate response." (Neill, 1984, page 3). **Synopsis**: "*Possible intermittent pollution indicated by biological monitoring but satisfactory on chemical sampling dates*." (Neill, 1984, page 4). 2025: Flagged for elevated nitrate (4.0mg/l) (WCC, 2025).

7.4. **Feeder Stream Number 4**



Parameter	Sources
Location image	Not featured on Figure 1 or Figure 4. Basemap = MapGenie 6 Inch Last Edition Black. Layer List = Townlands + Contours with extracts of Figure 6 (bottom left) and Figure 7 (bottom right) inset.
EPA data	None.
Characteristics	**Rises**: Unclear. Figure 6 shows an extensive stream while other sources don't feature it at all. **Direction of flow**: South-easterly and easterly. **Discharge point**: On the lake shore by Lake View House.
Catchment area	Unknown.
Water quality data	1984: **Chemical Analyses**: *"This drain was very badly polluted on all sampling dates and slime growths were present."* (Neill, 1984, page 2). **Biological Quality**: "*Moderate-slow flow, small (0.5-1.0m wide x 0.01m deep) gravelly bottom stream. The only macroinvertebrate recorded was Eristalis sp. a type which is tolerant of very low oxygen levels. Slime growths present. Bad quality (Q1).*" (Neill, 1984, page 3). **Synopsis**: "*Badly polluted on all sampling dates.*" (Neill, 1984, page 4).

	2025: Flagged for elevated nitrate (5.5mg/l), elevated orthophosphate (0.06mg/l), elevated *Enterococci* (600cfu/100ml) and very high ammonia (0.31mg/l) (WCC, 2025).

7.5. **Feeder Stream Number 5**

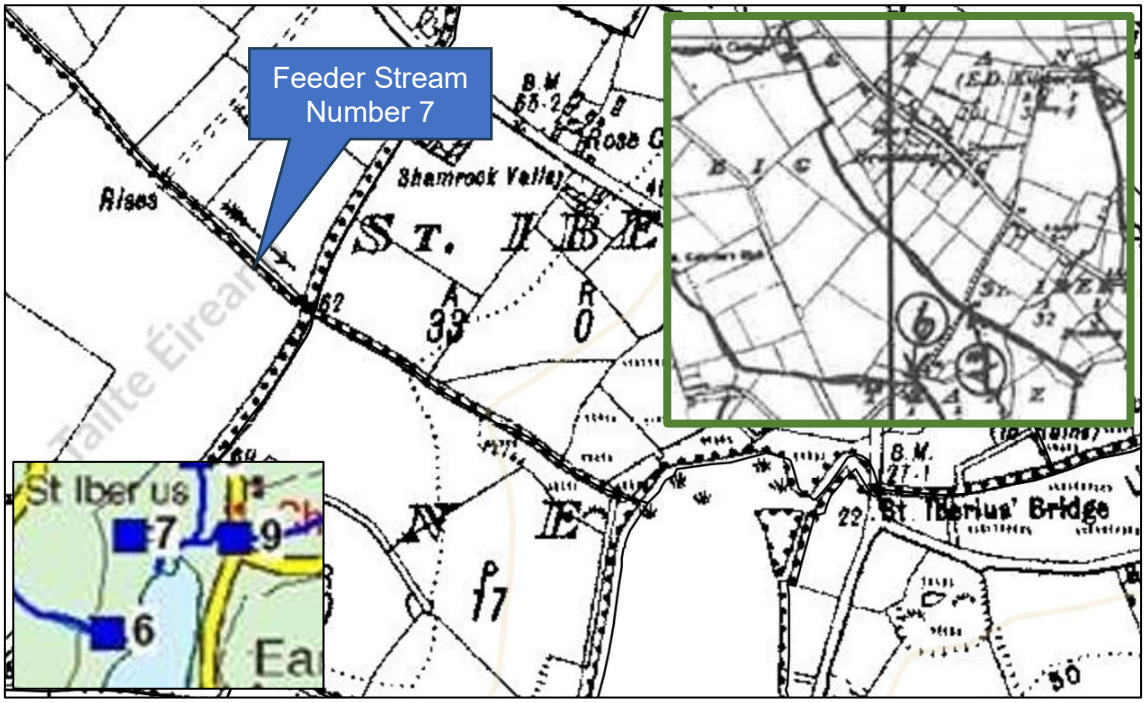
Parameter	Sources
Location image	Figure 1 (same as Figure 4) and extracts of Figure 6 (top) and Figure 7 (bottom) adjoining.
EPA data	One segment: **Segment code**: 13_260. **EPA Name**: Racecourse. **EPA Code**: 13R17. **Stream order**: 1. **Segment length**: 698m.
Characteristics	**Rises**: On the 20m contour line in Butlerstown. **Direction of flow**: South-easterly crossing the public road. **Discharge point**: On the lake shore at the point of intersection with the access lane to Lake View House.
Catchment area	0.58km^2.
Water quality data	1984: **Chemical Analyses**: *"Water quality was poor in April and July. Phosphate levels were high on all sampling dates."* (Neill, 1984, page 2). **Biological Quality**: "*Very small (0.5m wide X 0.05m deep) slow flowing silted stream. Low diversity and density of organisms. Doubtful-poor quality (Q2-3)*." (Neill, 1984, page 3). **Synopsis**: "*Badly or moderately polluted on all sampling dates*." (Neill, 1984, page 4). 2025: Flagged for very elevated nitrate (7.4mg/l), elevated ammonia (0.10mg/l), and elevated orthophosphate (0.06mg/l) (WCC, 2025).

7.6. **Feeder Stream Number 6**

Parameter	Sources
Location image	Figure 1 (same as Figure 4) and extracts of Figure 6 (top left) and Figure 7 (top right) inset.
EPA data	One segment: **Segment code**: 13_252. **EPA Name**: Eardownes Little. **EPA Code**: 13E01. **Stream order**: 1. **Segment length**: 324m.
Characteristics	**Rises**: On the high ground in Allenstown Big. **Direction of flow**: South-easterly crossing the public road and the 10m contour line and forming part of the townland boundary between Trane (north) and Butlerstown (south). **Discharge point**: On the lake shore on the Trane/Butlerstown boundary.
Catchment area	0.34km^2.
Water quality data	1984: **Chemical Analyses**: *"Small stream, high phosphate and elevated B.O.D. in July, otherwise satisfactory."* (Neill, 1984, page 2). **Biological Quality**: "*Small (1.0m wide X 0.05m deep) moderate to slow flowing stream with stone/gravel substrata. Low diversity. Doubtful quality (Q3).*" (Neill, 1984, page 3).

	Synopsis: "*Polluted on some sampling dates*." (Neill, 1984, page 4). 2025: Flagged for elevated nitrate (6.5mg/l) and elevated orthophosphate (0.04mg/l) (WCC, 2025).

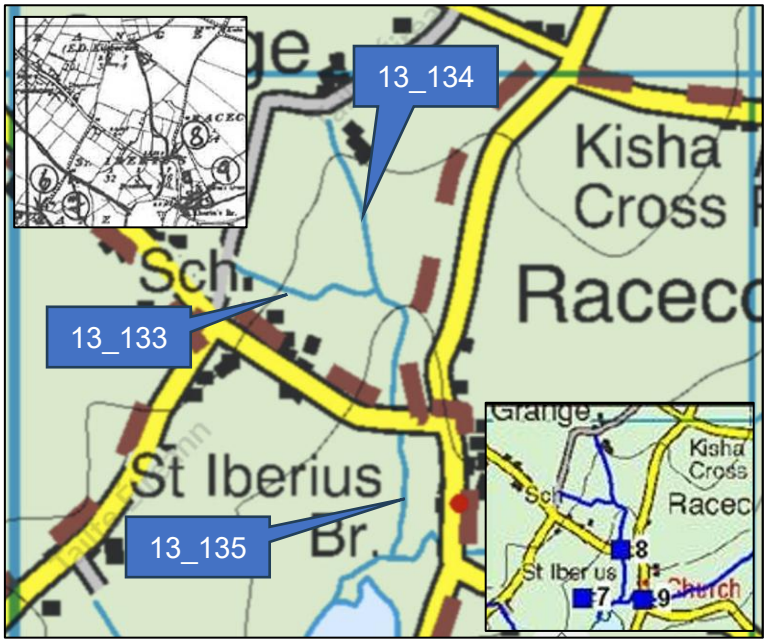
7.7. **Feeder Stream Number 7**

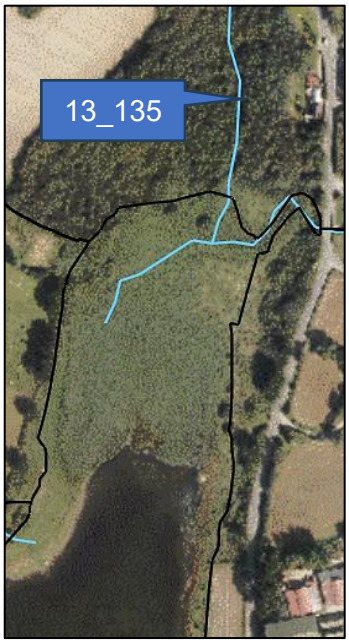


Parameter	Sources
Location image	Not featured on Figure 1 or Figure 4. Basemap = MapGenie 6 Inch Last Edition Black. Layer List = Contours with extracts of Figure 6 (top right) and Figure 7 (bottom left) inset.
EPA data	None.
Characteristics	**Rises**: Unclear but it appears to be north-west of the public road on the townland boundary between Allentown Big (south) and Grange (north). **Direction of flow**: south-easterly crossing the public road and the 10m contour line and forming part of the townland boundary between Trane (south) and St Iberius (north). **Discharge point**: On the lake shore on the Trane/St Iberius townland boundary.
Catchment area	Unknown.
Water quality data	1984: **Chemical Analyses**: *"Generally satisfactory. A small stream."* (Neill, 1984, page 2). **Biological Quality**: Not suitable for biological sampling (Neill, 1984, pages 2-3). **Synopsis**: "*Polluted on some sampling dates*." (Neill, 1984, page 4). 2025: Flagged for elevated nitrate (6.9mg/l), elevated orthophosphate (0.04mg/l), and very high *E. coli*

	(1733mpn/100ml) (WCC, 2025).

7.8. **Feeder Stream Number 8**

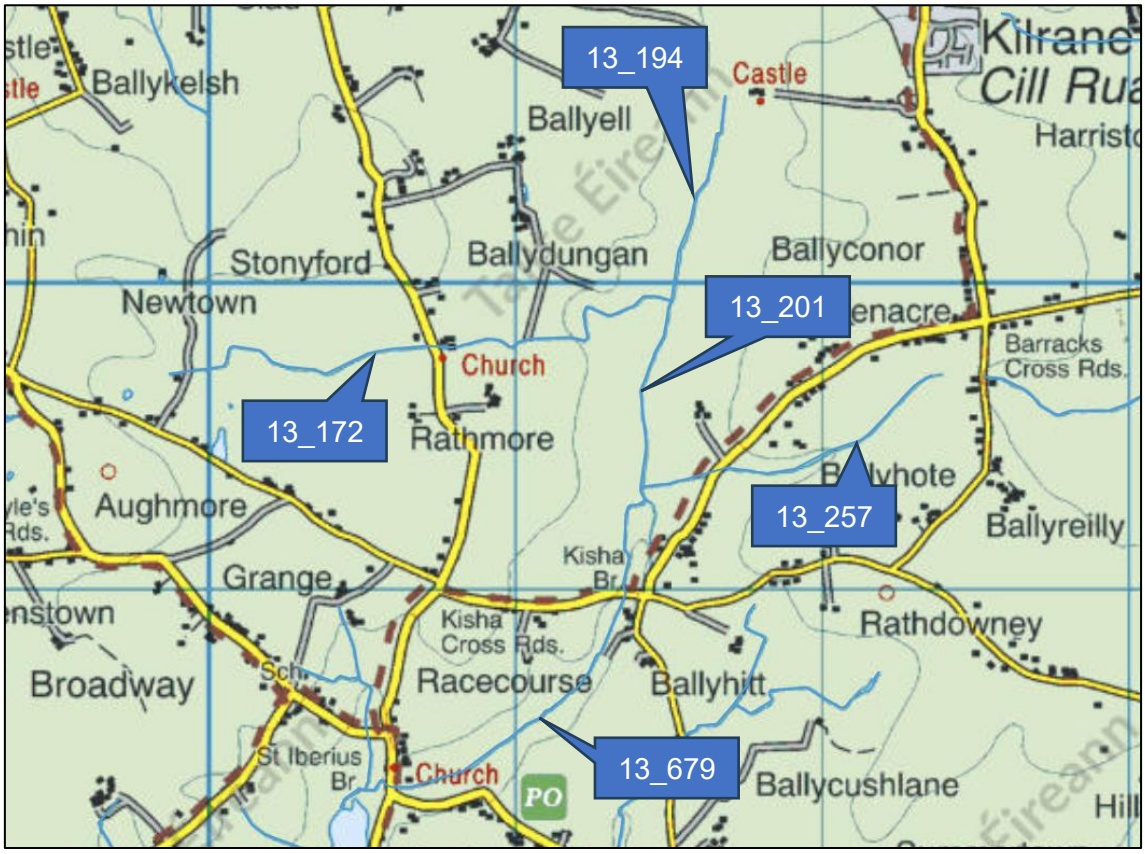




Parameter	Sources
Location image	Figure 1 (same as Figure 4) with extracts of Figure 6 (top left) and Figure 7 (bottom right) inset, and an aerial image of the discharge point adjoining.
EPA data	Three segments:- 1. **Segment code**: 13_133. **EPA Name**: Gorteencrin. **EPA code**: 13G14. **Stream Order**: 1. **Segment length** = 185m. 2. **Segment code**: 13_134. **EPA Name**: Stonyford 13. **EPA Code**: 13S16. **Stream order**: 1. **Segment length**: = 228m. 3. **Segment code**: 13_135. **EPA Name**: Stonyford 13. **EPA Code**: 13S16. **Stream order**: 2. **Segment length**: = 381m.
Characteristics	**Rises**: Two first order streams rise above the 20m contour line in the townland of Grange (Ed Kilscoran) the southern stream forming the townland boundary between St Iberius (south) and Grange (north). **Direction of flow**: South-easterly before their confluence, then south. **Discharge point**: On the lake shore in St Iberius after confluence with Feeder Stream No 9 in a reedbed in the lagoon (see aerial image above).
Catchment area	1.16km^2.
Water quality data	1984: **Chemical Analyses**: *"Generally satisfactory."* (Neill, 1984, page 2).

	Biological Quality: "S*mall (1.0m wide X 0.1m deep) slow flowing stream with mainly mud substratum. Diversity average/low. Doubtful quality (Q3)*." (Neill, 1984, page 3). **Synopsis**: "*Possible intermittent pollution indicated by biological monitoring but satisfactory on chemical sampling dates*." (Neill, 1984, page 4). 2025: Flagged for elevated nitrate (6.5mg/l) (WCC, 2025).

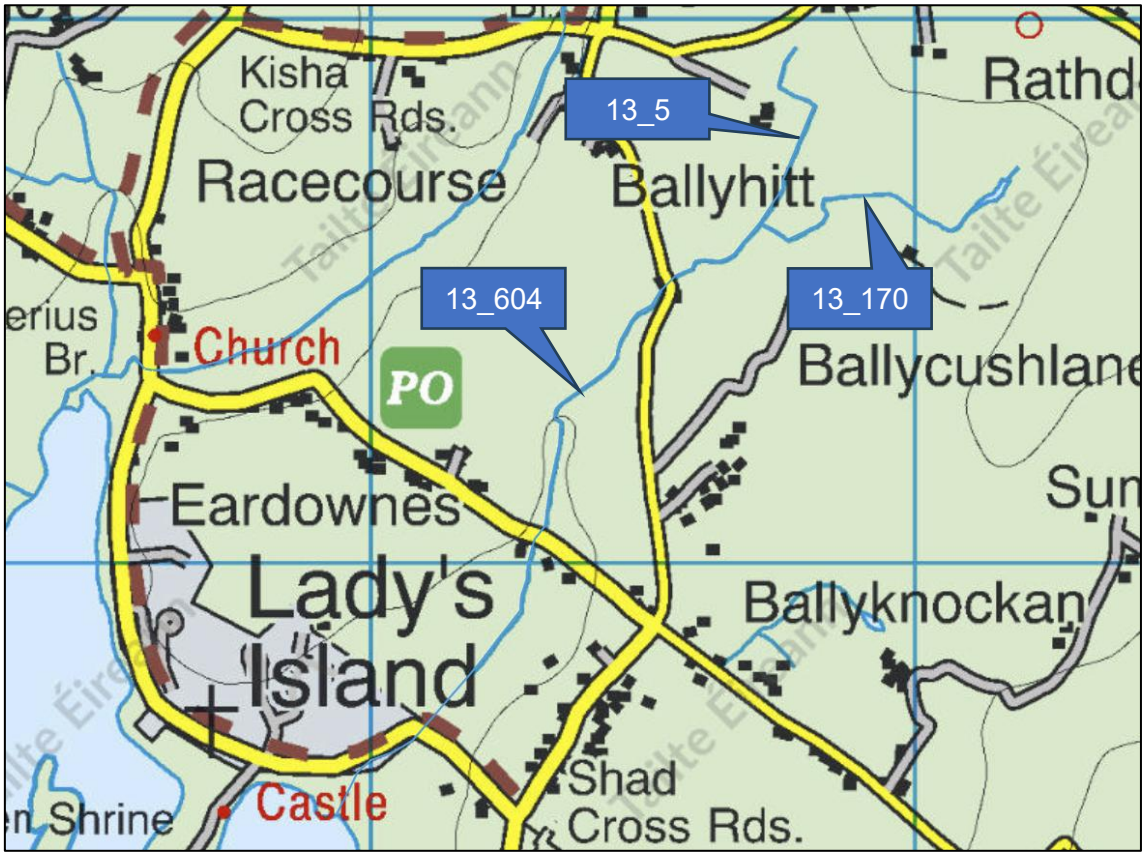
7.9. **Feeder Stream Number 9**



Parameter	Sources
Location image	Figure 1 (same as Figure 4 but minus the short first order spur immediately north of Kisha Bridge). Neither Figure 6 nor Figure 7 features the full extent of the watercourse.
EPA data	Five segments:- 1. **Segment code**: 13_172. **EPA Name**: Kisha. **EPA Code**: 13K14. **Stream order**: 1. **Segment length**: 1821m. 2. **Segment code**: 13_194. **EPA Name**: Ballyell Little. **EPA Code**: 13B52. **Stream order**: 1. **Segment length**: 689m. 3. **Segment code**: 13_201. **EPA Name**: Kisha. **EPA Code**: 13K14. **Stream order**: 2. **Segment length**: 629m. 4. **Segment code**: 13_257. **EPA Name**: Ballydungan. **EPA Code**: 13B53. **Stream order**: 1. **Segment length**: 1044m. 5. **Segment code**: 13_679. **EPA Name**: Kisha. **EPA Code**: 13K14. **Stream order**: 2. **Segment length**: 1522m.
Characteristics	**Rises**: The map above suggests that there are four first order streams:-

	➢ **13_194** rises near Kilrane on the townland boundary between Ballyell Big (west) and Ballyconor Big (east) in the valley between the 20m contour lines in the townland of Newtown (Ed Kilscoran) and flows south to confluence with 13_172, ➢ **13_172** rises short of the 30m contour line in the townland of Newtown (Ed Kilscoran) and flows east to confluence with 13_194 and both flow south as 13_201, ➢ **13_257** rises near Barracks Cross Roads on the townland boundary between Tenacre (north) and Ballyhote (south) short of the 20m contour line and flows west to confluence with 13_201 and all flow south as 13_679 ➢ An unidentified small stream rises near Kisha Bridge in the townland of Coldblow and flows north to confluence with the other three. **Direction of flow**: South-west. **Discharge point**: Has a confluence with Feeder Stream No 8 near St Iberius Bridge on the Saint Iberius/ Eardownes Great boundary townland and both discharge to the lagoon from the reed bed.
Catchment area	4.20km^2.
Water quality data	1984: **Chemical Analyses**: *"Water quality was bad in September. This is one of the larger feeder streams."* (Neill, 1984, page 2). **Biological Quality**: "*Small (1.0m wide X 0.2m deep) moderate-slow flowing stream with substratum of stones and mud. Diversity average/low. Poor quality (Q2)*." (Neill, 1984, page 3). **Synopsis**: "*Polluted on some sampling dates*." (Neill, 1984, page 4). 2025: Flagged for elevated nitrate (2.5mg/l) (WCC, 2025).

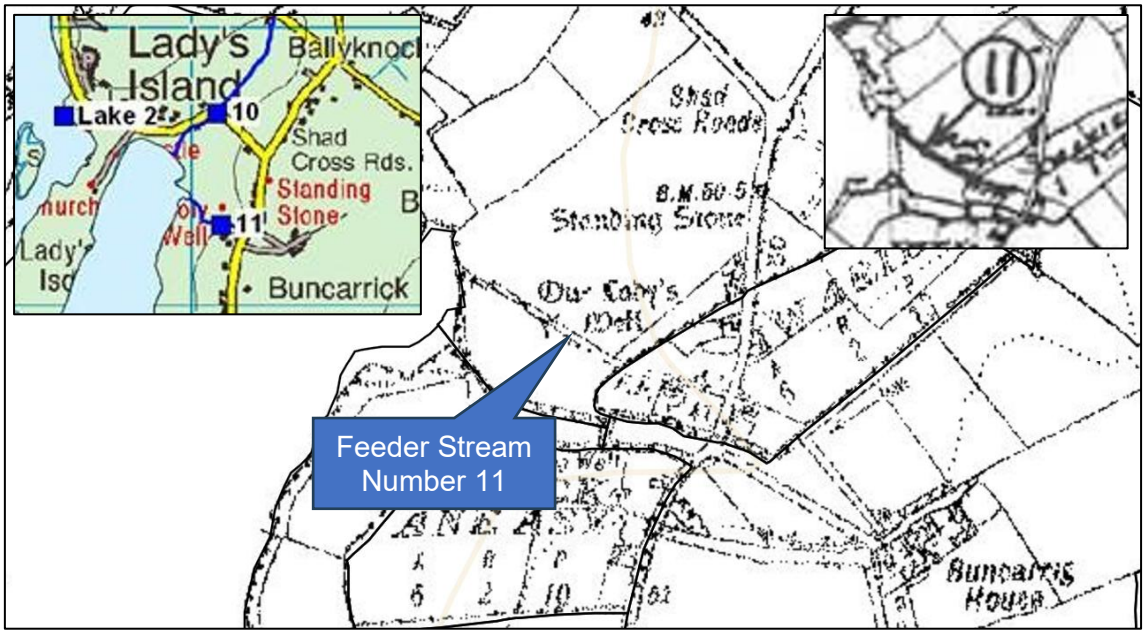
7.10. **Feeder Stream Number 10**



Parameter	Sources
Location image	Figure 1 (same as Figure 4, Figure 6, and Figure 7).
EPA data	Three segments:- 1. **Segment code**: 13_5. **EPA Name**: Rathmore 13. **EPA Code**: 13R14. **Stream order**: 1. **Segment length**: 370m. 2. **Segment code**: 13_170. **EPA Name**: Coldblow. **EPA Code**: 13C38. **Stream order**: 1. **Segment length**: 437m. 3. **Segment code**: 13_604. **EPA Name**: Coldblow. **EPA Code**: 13C38. **Stream order**: 2. **Segment length**: 1424m.
Characteristics	**Rises**: Two first order streams rise near the 20m contour line, one in the townland of Ballyhitt and the other in the townland of Ballycushlane Big. The two streams confluence in Ballyhitt. **Direction of flow**: South-westerly. **Discharge point**: On the lake shore in Eardownes Great.
Catchment area	1.49km^2.
Water quality data	1984: **Chemical Analyses**: *"Water quality was bad on all sampling dates."* (Neill, 1984, page 2).

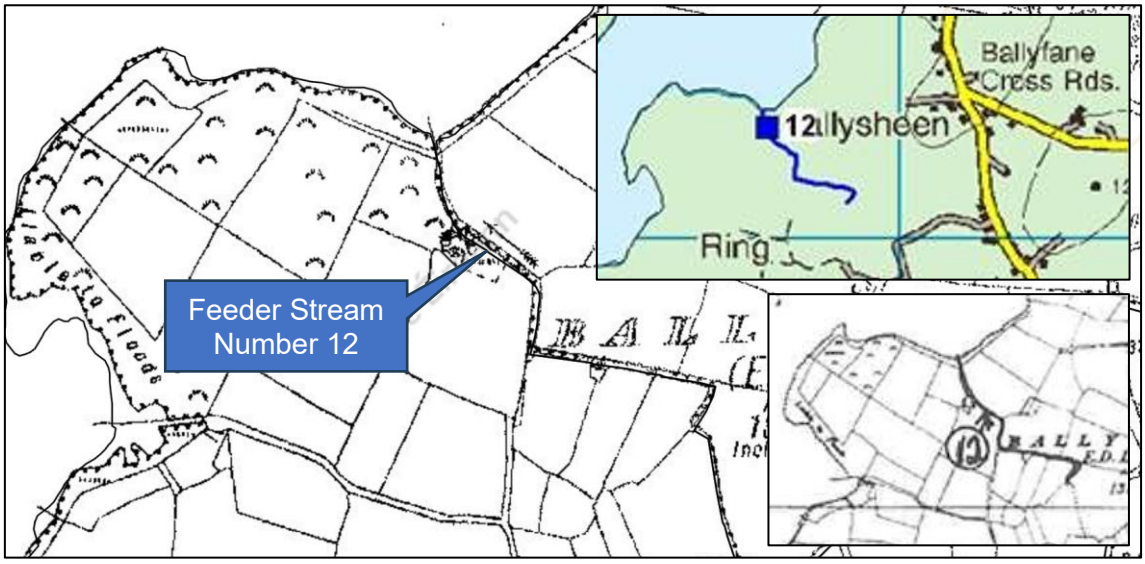
	Biological Quality: "*Small (1.0m wide X 0.3m deep) very slow flowing ditch/stream with silted mud bottom, overgrown with aquatic plants in places. Diversity low. Poor quality (Q2)*." (Neill, 1984, page 4). **Synopsis**: "*Badly polluted on all sampling dates*." (Neill, 1984, page 4). 2025: Flagged for elevated nitrate (4.2mg/l), high orthophosphate (0.07mg/l), and very high *E. coli* (1733mpn/100ml) (WCC, 2025).

7.11. Feeder Stream Number 11



Parameter	Sources
Location image	Not featured on Figure 1 or Figure 4. Basemap = MapGenie 6 Inch Last Edition Black. Layer List = Contours. Extracts of Figure 6 (top right) and Figure 7 (top left) inset.
EPA data	None.
Characteristics	**Rises**: Near the 10m contour line. **Direction of flow**: North-easterly. **Discharge point**: On the lake shore in Eardownes Great.
Catchment area	Unknown.
Water quality data	1984: **Chemical Analyses**: *"Our Lady's Well. Apart from elevated nitrate levels quality appears satisfactory."* (Neill, 1984, page 2). **Biological Quality**: Not suitable for biological sampling (Neill, 1984, pages 2-4). **Synopsis**: "*Elevated nitrate levels*." (Neill, 1984, page 4). 2025: Flagged for very high nitrate (8.0mg/l), and elevated *Enterococci* (530cfu/100ml) (WCC, 2025).

7.12. **Feeder Stream Number 12**



Parameter	Sources
Location image	Not featured on Figure 1 or Figure 4. Basemap = MapGenie 6 Inch Last Edition Black. Layer List = Contours. Extracts of Figure 6 (bottom right) and Figure 7 (top right) inset.
EPA data	None.
Characteristics	**Rises**: Unclear. **Direction of flow**: North-westerly. Defines the townland boundary between Ballysheen (east) and Ring (west). **Discharge point**: On the lake shore on the aforementioned townland boundary.
Catchment area	Unknown.
Water quality data	1984: **Chemical Analyses**: *"This is a drain which was dry on most sampling dates. It was not sampled."* (Neill, 1984, page 2). **Biological Quality**: Not suitable for biological sampling (Neill, 1984, pages 2-4). **Synopsis**: "*Stream too small for sampling*." (Neill, 1984, page 4). 2025: Flagged for elevated nitrate (5.5mg/l) (WCC, 2025).

8. REFERENCES

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