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Appendix 7.2

Summary of relevant observations and Planning Objectives from Cork Development Plan (2014) and Cobh Municipal District Local Area Plan (2017)

and amenity concerns are elaborated on in Chapters 6, 8 and 14. their relevance and implications of the Glashaboy River Drainage Scheme in Development Plan 2014, the Cobh Municipal District Local Area Plan 2017 for relation to landscape, townscape and amenity concerns. Ecological, built heritage The following extracts, policies and objectives are listed from the Cork County

County Development Plan

Objective GI 6-1: Landscape

- a)Protect the visual and scenic amenities of County Cork's built and natural environment.
- (dprinciple of sustainability. maintain respect for the environment and heritage general in line with the ensuring that a pro-active view of development is undertaken while Landscape issues will be an important factor in all land-use proposals,
- 0 Ensure that new development meets high standards of siting and design
- dtrees, hedgerows and historic walls or distinctive boundary treatments Discourage proposals necessitating the removal of extensive amounts *of*

Value environmental impact of development, particularly in areas designated as High its character, distinctiveness and sensitivity as recognised in the Cork County Draft development throughout the county will have regard for the value of the landscape, landscaping, materials used) will be required. Landscape Strategy and its recommendations, in order to minimise the visual and Objective GI 6-2: Draft Landscape Strategy: Ensure that the management of Landscapes where higher development standards (layout, design,

significance (including buildings and townscapes) and views of natural beauty as recognised in the Draft Landscape Strategy. of unspoilt mountains, upland or coastal landscapes, views of historical or cultural importance view and prospects, particularly sea views, river or lake views, views Objective GI 7-1: General Views and Prospects: Preserve the character of all

Objective G 7-3: Development on Scenic Routes:

- a) Require those seeking to carry out development in the environs of a scenic prevent significant alterations to the appearance or character of the area. development must be appropriateness of the design site layout, and landscaping of the proposed towards and from vulnerable landscape that there will be no adverse obstruction or degradation of the views route and/or an area with important views and prospects, to demonstrate demonstrated along with mitigation measures features. In such areas, to
- (dalong scenic routes which provides guidance in relation to landscaping. Encourage appropriate landscaping and screen planting of developments

that the approach roads to towns and villages are protected from inappropriate **Objective GI 7-4: Development on the approaches to Towns and Villages:** Ensure settlements. development, which would detract from the setting and historic character of these

Cobh Municipal District Local Area Plan

3.3.3 industrial development east of this national route.' to the south of the village where it opens into the upper reaches of Cork Harbour developed, and pockets of woodland. The Glashaboy River is a significant feature Glashaboy. To the east, Glanmire is partially bounded by the N8 with only minimal at Dunkettle. The settlement lies in the steep sided, wooded valley of the River "Glanmire is defined by steeply sloping fringes, some of which are

importance) and it's high landscape value is attributed to it in the Draft Strategy (scenic landscapes with described in the Draft Landscape Strategy as City Harbour and Estuary. A very landscape...likely to be fragile and susceptible to change)". highest natural and cultural value, areas with conservation interest and of national 3.3.23 "Glanmire is located within a landscape type of national significance sensitivity is described asvery high (extra vulnerable

3.3.24 to the setting of Riverstown. Scenic route S41 traverses the town to the south." of the town, is a steeply sloping area of land which makes a significant contribution this landscape is associated with Glashaboy River and also included, to the north "Parts of the (Glanmire) town are designated scenic landscape. Much of

protective works in the area." a Glashaboy Flood Relief Scheme. within the lifetime of this Plan and will be used to inform the implementation of affected by flooding and as a result of these flood events, the OPW have prepared include the Meadowbrook estate, lands to the north west of the town and open space town and are illustrated on the settlement map. Those areas most directly affected areas at risk follow the path of the Glashaboy River, that runs to the south of the **3.3.30** "Parts of Glanmire have been identified as being at risk of flooding. and town centre zonings. In 2012 and again in 2015, the town was seriously The scheme is intended to be implemented The

within the town in accordance with the Glashaboy Flood Relief Scheme..." **Objective GM-GO-04** "Support the implementation of the flood relief works

features, including field banks, hedgerows and treelines within zoned lands as well of the area and its associated habitat". Butlerstown Rivers function as ecological corridors. Any development within these as species of biodiversity interest. The area of woodland along the Glashaboy and areas will need to be informed by ecological assessment that ensures the protection **Objective GM-GO-10** "Retain a substantial proportion of the existing landscape

future waste water and surface water discharges. addressed if the current status is to be maintained". West River Basin Management Plan has identified that this area is at risk from 3.2.18. "While the status of this section of the Glashaboy River is good, the South This issue will need to be

3.3.13 "Existing shopping redevelopment to include enhanced provision for pedestrians." centre...The retail within Glanmire is located primarily at the Hazelwood Hazelwood centre itself would benefit from some

and cycling connectivity between those areas identified for town centre use... **3.3.40** "A key element of this strategy is the need to ensure appropriate pedestrian can be achieved by paying particular attention to public realm enhancements in Hazelwood and by improving the quality of the streetscape in Riverstown". This

centre and town park. enhancements." and provide connectivity, both pedestrian and cycling, to the new Riverstown Town GM-T-01 "It is an objective to consolidate the Hazelwood Shopping Particular attention to be given to public realm Centre

lands because of the importance of the hillside to the setting of the area". the setting of Glanmire... There is a presumption against development on these GM-0-01 "Open Space. This prominent slope makes a significant contribution to

amenity." amenity walk. This open space contains the Town Park, an important community GM-0-04 "Open space for informal recreation including the provision of an

and extend through proposed open space (GM-0-04) along river bank" GM-U-02: "Develop and maintain pedestrian walk through existing open space

Appendix 13.1

Published Information in the Archaeological Inventory of Co Cork (Power 1994) and published files of the Archaeological Survey of Ireland

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published files of the Archaeological Survey of Ireland Published information in Archaeological Inventory of Co Cork (Power 1994) and

C064-044 Sarsfieldscourt Castle

apparently 'a semi-fortified house' erected in the middle of the seventeenth century' by building consisted of 'a high tower containing a flight of steps and a bell tower', it was collapse; some cut stone in nearby garden of landowner. According to Healy (1988, 68), the Sarsfield family (Power 1923, 205). In pasture, on S-facing slope. No visible surface trace; demolished in the 1950s after a

CO063-092 Knocknahorgan Ringfort

map; field fences run off from N and S banks. Levelled; no visible surface trace. In pasture, on S-facing slope. Shown as circular enclosure (diam. c. 25m) on 1842 OS 6-inch

CO063-093 Knocknahorgan Cloth mill

structure; brick detail quoins and surrounds to opes with date stone '1897' on E gable. Late remains of structure (3.8m N-S; 9.65m E-W). At E side of complex is a 1-storey gable-ended on 1842 OS 6-inch map as 'Bleach and Cloth Mill'; on 1902 and 1935 OS 6-inch maps as survives as partially collapsed brick-lined tunnel (H c. 0.5m; Wth c. 0.8m); leads uphill c Underground tunnel; indicated on 1842 OS 6-inch map running SW of complex to chimney. N-S); tall archway in E wall; raised platform (H 1.7m) at W end. Attached to N wall are low On S bank of Glashaboy River c. 1.5km N of Sallybrook. Remains of large complex shown 100m to SW to an overgrown stone-built chimney (H c. 12m). 19th/early 20th century residential house in centre of complex. Other wall fragments survive 'Silversprings Starch Works'. Tall roofless gable-ended structure (ext. 10m E-W; int. 2.55m

CO063-094 Riverstown Cloth mill

roofed wheel house, N wall of which is an extension of structure to W; wide brick arch over N end of W elevation; similar to early 19th century structure attached to N, both pedimented with brick detail; key stone in S wall bears date 1851. Two-storey gable-ended projection at underground to S. Structure to W of wheel house is 2-storey gable-ended (long axis N-S), head-race in N elevation. Tail race exits between two tall round-headed arches and flows corner; remains of other structures to SE. Wheel-pit (Wth 4.85m) has mid-19th century flatrange, wheel-pit on W side; roofless 2-storey 4-bay structure (long axis N-S) attached to SE In poor condition after fires in late 1980s. Mill complex consists of multiperiod 2-storey E-W Cloth Mill', 1904 as 'Pike Mill (Dyeing)'; on 1935 as 'Glansillagh Mills (Waterproof Goods)'. On E bank of Glashaboy river in Sallybrook. Shown on 1842 OS 6-inch map as 'Bleach and

to interior of mill not gained on W gables with oculi. Mill pond immediately to N with head race flowing S from it. Access

CO063-069 Riverstown Paper mill

removed c. 1968, positioned along E side of structure. On E side of Glashaboy river. Named 'Paper Mill' on 1842 OS 6-inch map, 'Sallybrook (long axis E-W); 3-storey, 8-bay, gable-ended. According to local information mill wheel, Woollen Mill' on 1902 and 1936 OS 6-inch maps. Present structure is rectangular in plan

CO064-047 Hermitage Standing stone

048---), similar in shape and size, c. 120m to S. Packing stones exposed at base. Some striations on N edge of stone. Standing stone (CO064-In pasture on E-facing slope. Rectangular stone (H 2.26m; 0.82m x 0.2m), long axis N-S

CO064-048 Hermitage Standing stone

047---) of similar shape and size, c. 120m to N. Packing stones exposed at base. Some striations on N side of stone. Standing stone (CO064-In pasture, on E-facing slope. Rectangular stone (H 2.26m; 0.82m x 0.2m), long axis N-S

CO064-051 Riverstown Country house

elevation to S. Garden front (E) of 2 storeys over basement (basement hidden to front), 7 bays ca. 1734' (Bence-Jones ibid.; see photos Lee 1927). Ornamental lake, known as the "Fairy plasterwork by the Francini brothers 'probably their earliest work in Ireland and dating from wide. Hipped bow-ended elevations to N. Interior rich in design and ornamentation with narrow windows; elevation extended to N by 1-bay, 3-storey addition. Double-geble ended Jones 1978, 242). Entrance front (W) 2 storey with 4 bays, off-centre doorway flanked by Pond", to NW. House open to public. An early 18th century house, enlarged and remodelled in 1730s into its present shape (Bence-

CO064-111 Riverstown Poulacurry North Poulacurry South Bridge

roughly cut voussoirs; low pointed breakwaters Hump-backed road bridge (Wth 4.75m) over Glashaboy river. Five semicircular arches with

CO064-142 Riverstown Lime kiln

Front (L 3.12m) E-facing; blocked stone-arched recess (H 2m) spanning full width of wall; Roadside, adjacent to Butlerstown river on estate of Riverstown House (CO064-051---).

small rectangular ope at base leads into funnel. Projecting end walls. Stone-lined funnel (diam. 4.66m), barrel-shaped in section. Ramp on S side

CO074-071 Poulacurry South Mound

1.2m) locally regarded as ancient site. In pasture, on grounds of Castle Jane House. Oval grass-covered mound (5.5m x 8m; H

CO074-104 Poulacurry South Church of Ireland church

also of limestone blocks, has single pointed windows in N and S walls; central E window, 5 pointed lights divided by mullions. Vestry on S side of chancel. Rendered tower at W end; uncoursed limestone blocks added to S with 2- and 3-light pointed windows. Short chancel, small extension to W. Nave has pointed 1- and 2- light windows on rendered N wall; aisle of donated site (Lewis 1837, vol. 1, 654). Shown on 1842 OS 6-inch map as plain rectangle with surmounted by clock; upper levels have octagonal belfry with slender spire. pointed arch entrance with traceried pointed fanlight on W face; blocked window on N face In Glanmire village, St. Mary and All Saints C of I church. Built in 1784 on privately

CO075-001 Poulacurry South Cloth mill

elevation. Smaller mid/late 19th century mill (long axis E-W) to N; decorated bargeboards surrounds with roof gabled to W, half hipped to E; date plaque (1796) on weatherslated S storeys gable-ended with attic; stone-arched window opes. Attached to S end E wall is 4-storey, 7-bay mill (long axis E-W), with wheel-pit along E wall. Windows with brick both mills. According to local information turbine installed 1929. Access to interior not along gable ends; wheel pit along E gable. Mill pond to N; two millraces flow S to power layout is constructed in two phases. Earliest structure (long axis N-S) on W side is of 4 6-inch map as Cloth mill; shown as Beetling mill on 1902 OS 6-inch map. Present L-shaped On W bank of Glashaboy river 0.5km N of Glanmire. L-shaped complex shown on 1842 OS gained. Functioned as saw-mill in recent past, now functions as furniture factory

CO075-002001- Ballinglanna Corn mill

pinion wheel attached to shrouding. Mill race still flowing approaching mill from N; remains opes. Wheel-pit (Wth 4.1m) along E elevation; houses low breastshot iron waterwheel with elliptically-headed doors at ground floorwith limestone surrounds, brick surrounds to rest of rebuilt to present 1-storey height. inch maps but which no longer survive; straddling wheel-pit, burnt 1960 and subsequently connected mill to large complex of buildings indicated to E of mill on 1842 and 1902 OS 6of sluice-gate just N of wheel-pit. Five-bay extension from E elevation of mill survive; E end of southern roof, with roof vent. W elevation of coursed limestone ashlar; two Rectangular mill (19.85m N-S; 12.5m E-W) survives; double gable-ended except for hipped Indicated on 1842 OS 6-inch map as large complex on E bank of Glashaboy river

CO075-002002- Ballinglanna Lime kiln

inaccessible. 2.3m; Wth 2.9m); joist-holes above recess to support lean-to structure. Rear of kiln In grounds of flour mill (CO075-00201-). Partially collapsed; front has arched recess (H

CO075-003 Ballinglanna Distillery

to stream; elevation of 12 bays; now used as garage. Complex named' Brewery' on 1902 OS on each floor of W gable. Three-storey rectangular structure to NW (long axis E-W), adjacent bays. S elevation of 3 storeys; camber-headed brick-arched windows. Wide central doorway ended structure built into slope, known locally as "the maltings". Four-storey N elevation, 11 'Distillery' on 1842 OS 6-inch map, of which only two buildings remain. Rectangular gable-6-inch map, indicating change in function. In Riverstown, on S bank of Glashaboy river. Early/mid-19th century complex marked

CO075-069 Ballinglanna Coaching house

with wide arched doorway flanked by narrower arched door opes. Oval-shaped 1st floor ruins) to SW. Hipped roof. Entrance front (S) of 5 bays; central 3-bay pedimented breakfront Late 18th/early 19th century 2-storey (over basement) coaching house of Glyntown House (in between floors. windows with brick surrounds; oculus in pediment with brick surrounds. Brick string course

CO075-048 Ballinglanna Poulacurry South Bridge

dressed voussoirs; pointed breakwaters. Hump-backed road bridge (Wth 8.85m) over Glashaboy river. Three semicircular arches with

CO075-094001- Ballinglanna Architectural Fragment

chamfered edge and a shallow inner chamfer. Only one of these is still in place, the other is on the east side. The stones from which this façade is built are mostly dressed and two are spring flows out from it and thus creates a wet boggy area immediately to the front. The well century though it is not chamfered, and judging by the similarity of the dressing on the other of the well was built. The surviving arch stone of the well surround is also likely to be 15th facade and are inscribed with the date "1788". This is presumably the date when the surround now lying loose beside the well. These window stones formed the upper end stones of the from the arch of a 15th century ogee-headed window light. They both have a deep outer been damaged and only the west side is now intact; only the two basal stones survive in situ are now exposed, probably due to erosion. The front of the wall has a built façade but this has has an apsidal stone-built surround, built into the sloping ground. The top of the vault stones The well is built into a slight S-facing slope in ground, in a field of pasture. Water from the

matching in style the well stones and it is likely the well surround and the folly building were a folly building (CO075-094002-) which also contains reused 15th century dressed stone this well was ever venerated and is likely to be a secular well. A short distance to the north is stones of the façade these are also likely to late-medieval as well. There is no tradition that built at the same time. These dressed stones must have come from a nearby tower house but location on the OS maps. there is no tradition or local information regarding this, nor is any castle marked in this

CO075-094002- Ballinglanna Architectural Fragment

is clear as is a recessed spandrel (at last on the west side). These dressed stones must have single-light window directly above. The top of this is now covered by ivy but the ogee-head two-centred pointed arched surround. The inwardly curve of the jamb stones show this to there is a window ope directly above the ground-floor door. This is flanked by two niches the blocked-up kiln opening and on its east side by a star-shaped recess. On the first floor side so that it is not a free-standing structure (typically lime kilns are built into sloping though that part now covered by ivy. The building is built against a rock outcrop on its north evident from above though the top of the kiln is partially covered by scrub and ivy. The folly a folly castellated building has been added creating a façade which disguises the lime kiln as come from a nearby tower house but there is no tradition or local information regarding this. pyramidal stop-chamfer with a plain horizontal roll at its apex. Also of this date and matching have been a doorway in a spiral stairs. There is a deep chamfered edge and on the east side a with bluntly-pointed arched heads. The inside of the door surround is a re-set 15th century ground). The front façade consists of a central ground-floor door, flanked on its west side by top of the wall was battlemented- these survive where the wall still stands to full height building is now a shell and the top part of the front wall has fallen though it is clear that the part of the folly. The front opening of the kiln has been blocked up but the funnel is still nor is any castle marked in this location on the OS maps. both the door and the stones at the nearby well (CO075-094001-) is the surround of the This is a two-phased construction. At the west end is a lime kiln and onto the east side of this

CO064-049 Hermitage Sweathouse

break in wall to SE may be entrance. Only indication of corbelling is short section to N built structure (int. H 1.6m; diam. 3.3m; wall thickness 0.63m); lintelled fireplace in W wall; beehive principal and was furnished with fireplace and chimney'. Remains of circular stone-Power (1923, 204) as 'clochán-like structure, now very decayed....it was roofed on the comprised of two courses of oversailing masonry. Built into natural slope on steep overgrown N bank of Butlerstown river. Mentioned by

CO064-052 Brooklodge Fulling mill

NE-SW; L 5.2m), SE end replaced by long (int. L 15.5m) mid/late 19th century addition. To E of Butlerstown river, c. 1.2km N of Riverstown. Remains of mill structure (long axis Wheel pit (Wth 2.5m) along NW wall which housed a low breastshot or poncelot wheel.

CO064-055 Brooklodge Castle

Shown on 1842 OS 6-inch map; by 1904 OS 6-inch map new road going through area of site new road constructed. Possibly a castle of the Barrys (O Murchadha 1985, 30). Immediately to E, 1842 map shows site of 'old fish pond'; this also probably destroyed when

CO064-056 Brooklodge Fish pond

the 'Archaeological Inventory of County Cork - vol. 2 East and South Cork' (1994, -209) of Brooklodge Upper (now known as Brooklodge townland). This fish-pond is referred to in mentioned as follows: 'Immediately to E, 1842 map shows site of 'old fish pond'; also under the entry (no. 5522) for an unclassified castle (CO064-055----). The fish-pond is probably destroyed when new road constructed...' This pond is shown and named 'Old Fish Pond' on the 1842 OS 6-inch map in the townland

CO074-026 Lotamore Country house

cornice. Central 3-bay breakfront with pedimenta bove Baroque porch; above porch four gabled roofs of wings also raised and pavilions heavily altered. Now owned by Brothers of breakfront all added. Roof originally parapeted; raised to extend to upper edge parapet; window surrounds, string courses at base of 1st and 2nd floor windows and pediment over century prints show a plainer house with string course between ground and 1st floors. Plaster pavilions. 'The interior has an elaborate, double-ramp mahogany staircase' (Glin ibid.). 18th Symmetrical arcaded wings extend from rear of W and E elevations to pyramidal-roofed pilasters enclose 3 central bays, surmounted by urns on the parapet (Glin 1967, 739). Davis Duckart. Central block 3-storey, 9-bay; prominent quoins and elaborately carved Charity Overlooking Lee estuary to S and mouth of Glashaboy River to W, built 1765 to design of

Appendix 13.2

Wading and Metal Detection Survey at Glenmore Stream, Ballinglanna Riverstown Unnamed channel at sallybrook House, Riverstown an Bleach Hill stream, Sarsfieldcourt, Glanmire, Co Cork

Note - Appendix 13.2 and 13.3

implemented which are not reflected in the wading survey and dive survey of either survey. Following the completion of both, design changes were Monuments Service. The design of the scheme had not been finalised in advance consultations with the Underwater Archaeological Unit of the National carried out during the course of the compilation of the EIA as a direct response to reports. Full and final details of the scheme are included in Chapter 13. Both Appendix 13.2 (Wading Survey) and Appendix 13.3 (Dive Survey) were

Wading and Metal Detection Survey

at

Glenmore Stream, Ballinglanna & Riverstown named channel at Sallybrook House, Riverstov

Unnamed channel at Sallybrook House, Riverstown and Bleach Hill Stream, Sarsfieldscourt, Glanmire, Co Cork

Licence Number 16D0054 & 16R0082

Avril Purcell MA MIAI

July 2016

on behalf of Office of Public Works

Turner's Cross, Cork.

Lane Purcell Archaeology, 64 Fr Mathew Road,

1 Introduction

- 1.1assess the archaeological potential of the watercourses and their environs surveys at a number of locations where works are proposed for the scheme in order to were consulted and they recommended archaeological wading and metal detector Underwater Archaeological Unit at the Department of Arts Heritage and the Gaeltacht Assessment (EIA) is currently being prepared on the scheme. As part of this EIA, the Butlerstown Stream and Glenmore Stream (Figs. 1 and 2). An Environmental Impact tributaries including Bleach Hill Stream, Cois na Gleann Stream, Springmount Stream scheme will include works at a number of locations along the Glashaboy River and its The Office of Public Works are undertaking the Glashaboy Flood Relief Scheme. The
- 1.2 area since their use in the 19th century when they provided power to the various mills in the within their original channels in the suburban areas. Some sections remain culverted, commuter suburb to Cork city. The river and its tributaries are open and flow generally Glanmire from its industrial beginnings in the 19th century to its current phase as a flowing and is crossed by numerous bridges which, in effect, mark the development of as it flows into the upper reaches of Cork harbour. Upstream of this the river is fast village of Glanmire marks the opening of the Glashaboy River into a wide tidal mud flat east of the city with Riverstown and Sallybrook located further north and upstream. The Sallybrook, Riverstown and Glanmire on the northern side of Cork city. Glanmire is north The proposed scheme is designed to reduce the flood risk in the suburban villages of
- 1.3 11th Monuments and Places (RMP) for Co Cork on the watercourses. Stream, Brooklodge Upper and Ballinglanna. There are no sites listed in the Record of unnamed channel at Sallybrook House in Riverstown townland; and the Glenmore undertaken on sections of three watercourses, Bleach Hill Stream, Sarsfieldscourt; an The intertidal and metal detection surveys were carried out by the author on the 1st and of July 2016 under licence numbers 16D54 and 16R82. The surveys were The nearest is a mill in

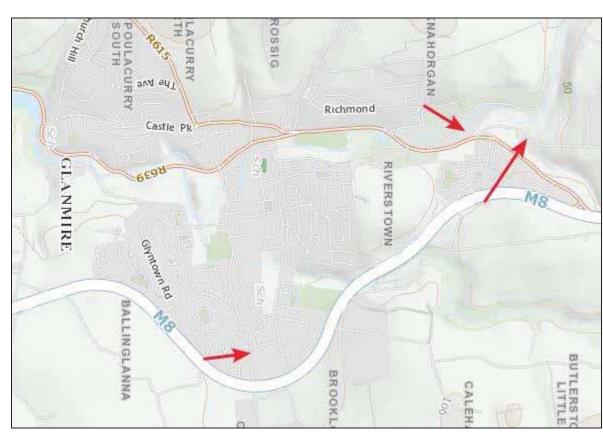


Figure 1: OSI map showing locations with red arrows where survey was carried out

House. Riverstown (CO0063-069) which is 40m north of the unnamed channel at Sallybrook

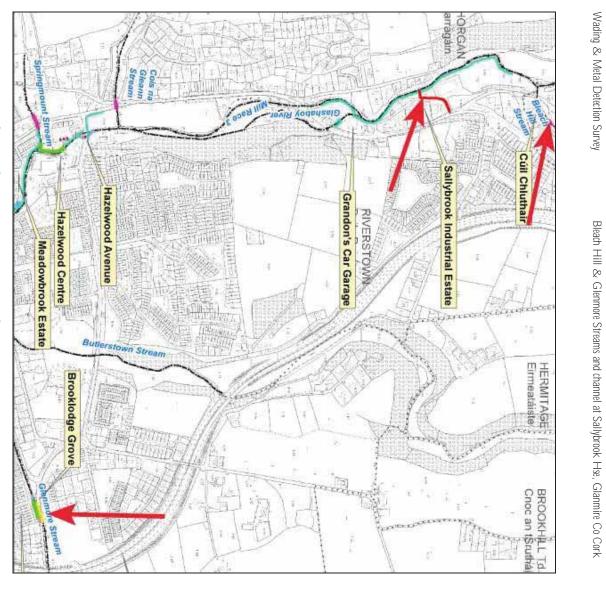
1.4 This report was compiled by Avril Purcell, Lane Purcell Archaeology, 64 Fr Mathew Road, Turner's Cross, Cork on behalf of Arup, 15 Oliver Plunkett St, Cork.

Wading & Metal Detection Survey

Bleach Hill & Glenmore Streams and channel at Sallybrook Hse, Glanmire Co Cork

(after Arup)

Figure 2: Areas of works for Glashaboy Flood Relief Scheme included in survey shown in red



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2 Existing Site and Proposed Development

- 2.1 works included in the wading and metal detector survey are as follows: the Glashaboy River is being carried out under a separate licence. The areas of proposed the original watercourses appear to survive despite some modifications. A dive survey of surveys focused on areas within the scheme which were possible to wade and where watercourses in Glanmire, Riverstown and Sallybrook. The wading and metal detector Flood relief works are proposed at a number of locations along the existing
- ٠ 1.6m wide and 1.2m high rectangular culvert. Works will comprise the replacement of the existing culvert under the road with a new Bleach Hill Stream: Cúil Chluthair, Sarsfieldcourt townland (Figs. 3 and 4)
- construction of the flood defences on the Glashaboy River. Works will include culverting the existing open channel which will be cut off by the Unnamed channel south and east of Sallybrook House: Riverstown townland (Fig. 3)
- ٠ Glenmore Stream at and near the entrance to Copper Valley Vue and Brooklodge Grove Road, Brooklodge Upper and Ballinglanna townlands (Fig. 5)

entrance under Brooklodge Grove Road will be replaced by a new deeper, wider culvert. Valley Vue with a new wider culvert. The culvert approximately 50m to the east of the Works will comprise the replacement of the existing culvert at the entrance to Copper

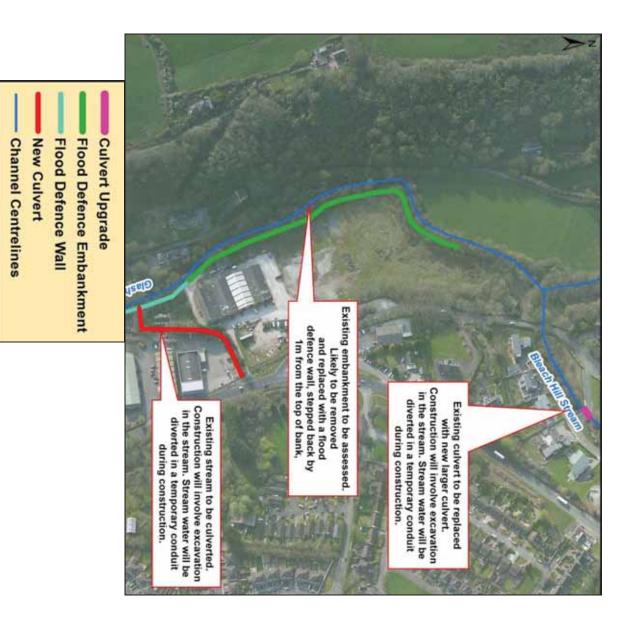


Figure 3: Proposed works to Bleach Hill Stream and unnamed channel at Sallybrook House in red (after Arup)

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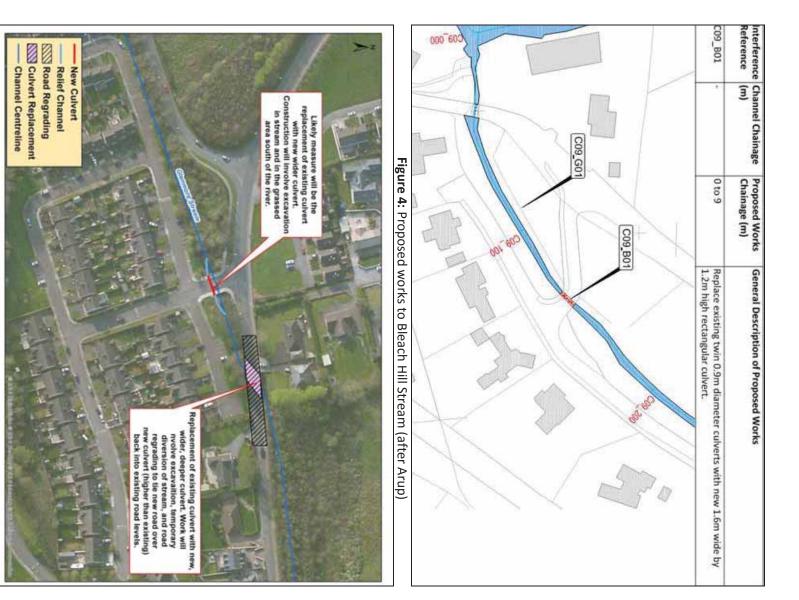


Figure 5: Proposed works to Glenmore Stream at Copper Valley Vue and culvert under Brooklodge Grove Road (after Arup)

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3 Historical Background

- ω.1 suburban expansion, while it is contained to the west by higher ground runs roughly north from Dunkettle and this has largely defined the eastern extent of the spanning both banks of the Glashaboy and its tributaries. The M8 Cork-Dublin motorway Riverstown and Sallybrook to form a large, almost continuous, suburban settlement approximately 5km to the southwest. It has merged with the adjoining villages of 20th century Glanmire expanded into a commuter town to Cork city located many of these industries survive, albeit in an incomplete state. In the second half of the bleach and cloth mill, a pike mill and a distillery. Elements of the physical remains of harnessed to operate flour mills, a paper mill (which later became a woollen mill), in the broader Glanmire area in the 18th and 19th centuries. Water power was The Glashaboy River and it's tributaries were the focus of much of the industrial activity a
- 3.2 operation in Cork city and hinterland by the middle of the 19th century. The paper and 1936 OS 6-inch map (not depicted). This was one of at least 11 paper mills in 6-inch map (Fig. 8) and Sallybrook (Woollen) Mill on the 1902 OS 25-inch map (Fig. 9) The above mentioned mill was named as a paper mill on the 1842 Ordnance Survey (OS) of an access road to Sallybrook Industrial Estate in the second half of the 20th century. (Fig. 6). The channel itself appears to have been constructed following the construction 069) approximately 40m to the north and on the eastern bank of the Glashaboy River Sallybrook House may be an overflow channel to the mill race of a paper mill (CO063transport links and routeways. The unnamed channel to the south and east of focus of ritual activity, habitation and industrial sites and as well as providing important however, long been recognised. In prehistoric and historic times watercourses were a Glenmore Stream (Figs. 6 and 7). The archaeological potential of watercourse has and Places (RMP) or the Sites and Monuments Record (SMR) database of the northeast of the city and was at the centre of the Munster paper industry during the milling industry was focused on the catchment area of the Glashaboy River to the Archaeological Survey of Ireland within the area of the Bleach Hill Stream or the There are no recorded archaeological monuments listed in the Record of Monuments

 18^{th} Inventory of County Cork (Power 1994) as follows: the buildings in Sallybrook Industrial Estate. The mill is included in the Archaeological and 19th centuries (Rynne 2006, 307). Its surviving remains now comprise some of

(long axis E-W); 3-storey, 8-bay, gable-ended. According to local information mill wheel, Woollen Mill' on 1902 and 1936 OS 6-inch maps. Present structure is, rectangular in plan On E side of Glashaboy river. Named 'Paper Mill' on 1842 OS 6-inch map, 'Sallybrook removed c. 1968, positioned along E side of structure.

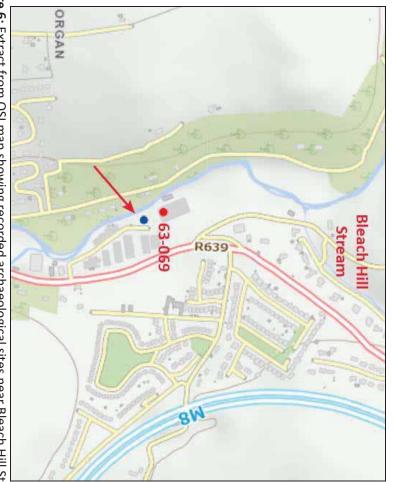


Figure 6: Extract from OSI map showing recorded archaeological sites near Bleach Hill Stream.

Sallybrook House is shown as a blue dot and the channel, which is not shown, lies to the south and east of the house as indicated by red arrow (www.archaeology.ie)

Sallybrook House (Ref. 20906332) is included in the National Inventory of Architectural

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goods and rendered chimneystacks. Rendered walls. Camber-headed openings with

to rear (west) elevation. Now in use as house. Pitched slate roof with cast-iron rainwater

single-bay two-storey extension and recent flat-roofed two-bay single-storey extension

Detached three-bay two-storey former miller's house built c. 1880, with flat-roofed

Heritage (NIAH) and is described and appraised as follows:

house. timber panelled half-glazed door and overlight. Timber footbridge over ditch to front of Camber-headed opening with moulded render surround incorporating keystone detail, and square-headed openings with steel casement windows to two-storey extension. two-over-two pane and one-over-one pane timber sliding sash windows to rear elevation windows, one-over-one pane to north gable. Camber-headed window openings with concrete sills, moulded render surrounds with two-over-two pane timber sliding sash

surrounds, evidence of conscious design and craftman's skill. Retention of timber sash Simple symmetrical façade enhanced by camber-headed windows with moulded render windows and roof slates is significant.



Figure 7: Extract from OSI map showing recorded archaeological sites near Glenmore Stream (www.archaeology.ie)

ω ω river a short distance to the south. The access road to Glanmire Industrial Estate now runs as an open channel running south-southeast of Sallybrook House and converging with the indicates this extending to the south of the house. This is then shown on the three maps southwest from the mill to the northeast side of Sallybrook House and the 1902 map or 1936 OS maps (Figs. 8 and 9). Instead a culverted channel is indicated running The unnamed channel around Sallybrook House is not shown or named on the 1842, 1902 largely along the line of this channel which may have been modified to facilitate the

the east and south of Sallybrook House is shown on the 1842, 1902 or 1936 OS maps time that the unnamed channel was constructed. No indication of a channel running to construction of the road in the second half of the 20th century and it was probably at this

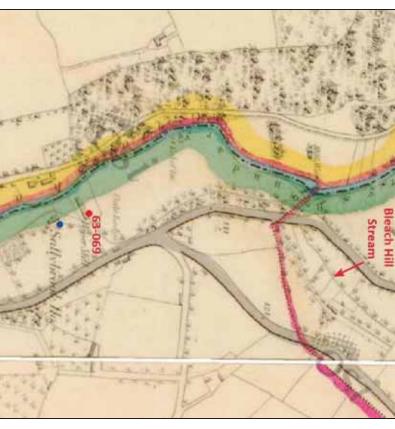


Figure 8: Extract from 6-inch OS map (1842) showing Sallybrook House and environs and route of Bleach Hill Stream (www.archaeology.ie)

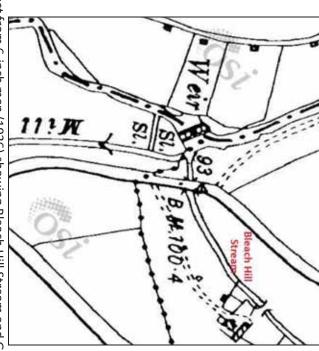
3.4 Bleach Hill culvert, which provided access to an unnamed structure. A modern housing begins. The 1936 map shows a bridge approximately 30m upstream of the existing map (Fig. 10) depict and name a sluice a short distance south of where the mill race Stream parallel to the local road to the east (Fig. 8). The 1902 (not depicted) and 1936 mill (CO063-069) runs south of the confluence of the Glashaboy and the Bleach Hill townland close to a mill weir named and depicted on the river. A mill race to the paper shows the stream running into the Glashaboy River at the southern end of Sarsfieldcourt not named, on the 1842, 1902 and 1935 editions of the OS maps. The 1842 OS map aforementioned paper mill in Riverstown (CO063-069) (Fig. 6). The stream is shown, but at Sarsfieldscourt. The nearest archaeological monument to the stream is the The Bleach Hill Stream is a small watercourse which runs south into the Glashaboy River

July 2016

(www.archaeology.ie)

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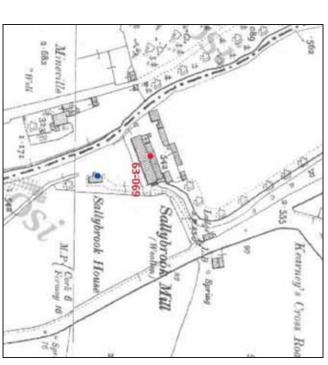












Bleach Hill & Glenmore Streams and channel at Sallybrook Hse, Glanmire Co Cork

Wading & Metal Detection Survey

culvert that works will take place

and a small part of the stream was culverted to provide access to this estate. It is on this estate called Cúil Chluthair was built on the eastern side of the stream in the early 2000s

- ω 5 road layout remains the same and now there is an entrance to a modern housing estate northern side, crossing under the road in a culvert and continuing on its south side. The unnamed then, had been constructed beside the stream with the stream running on its further to the west. By 1902 (Fig. 12) a road, now called Brooklodge Grove Road but west flowing stream discharging into the Butlerstown Stream several hundred metres that the proposed works are to take place. It is shown on the 1842 OS map (Fig. 11) as a townland boundary between Ballinglanna and Riverstown and it is along this boundary 003) approximately 750m to the west-southwest (Fig. 7). The stream itself forms the (CO064-051) approximately 700m to the west; and a distillery in Ballinglanna (CO075-Brooklodge (CO064-055) approximately 700m to the east; Riverstown country house The nearest recorded archaeological monuments to the Glenmore Stream are a castle in Copper Valley Vue, approximately 50m to the west.
- ω. 6 The Underwater Archaeology Unit of the National Monuments Service maintains files on watercourses that are the subject of this report. are no references in the files to the watercourses or settlements in the vicinity of the the Ports Piers and Harbours of Ireland and the Shipwreck Inventory of Ireland. There

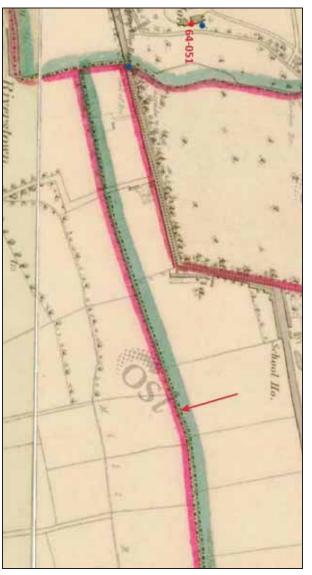


Fig. 11: Extract from 6-inch OS map (1842) showing the Glenmore Stream with arrow showing approximate works location (www.archaeology.ie)



Fig. 12: Extract from 25-inch (1902) OS map showing road constructed beside Glenmore Stream with arrow showing approximate works location (www.archaeology.ie)

- 3.7 report from any of the townlands in the vicinity of the watercourses that are the subject of this archaeological material recovered throughout the country. There are no records of finds including correspondence, present location and occasionally, illustrations of The National Museum of Ireland maintains topographic files containing reports
- ω .∞ 1999 (Clinton 1999). excavated in advance of the construction of the Ballincollig Little Island gas pipeline in of the proposed works area for the Glenmore Stream when a corn drying kiln was One archaeological excavation has been undertaken several hundred metres northeast

4 The Intertidal and Metal Detection Survey

4.1 evidence of modifications to the channels or evidence of original channels. the banks and beds visually inspected. Surrounding ground was inspected for any inspecting the water channels. Each watercourse was waded and metal detected and were low at the time after a period of dry weather and conditions were favourable for were undertaken by the author under licence numbers 16D54 and 16R82. Water levels areas to assess their archaeological potential on the 1^{st} and 11^{th} July 2016. The surveys Wading and metal detector surveys were carried out in the proposed flood relief works

4.2 The Watercourses

4.2.1 ground at the top of the eastern bank. slope while the eastern bank slopes steeply. Material has been dumped on the high stream is very stoney as are the sides. The western bank is defined by a near vertical by a culverted portion which runs under the access road to Cúil Chluthair. The bed of the Bleach Hill Stream: Cúil Chluthair, Sarsfieldcourt townland (Plates 1 and 2) The stream runs southwest within a natural earthen channel divided into two sections

section. No features or finds of archaeological potential were identified. section. Otherwise this section was more overgrown than the upstream northern concrete man-hole on the eastern bank of the stream on the southern downstream identified during the metal detector survey, all were modern in nature. There is a large The stream was generally quite clean although some metal pipes and debris were



Plate 2: Bleach Hill Stream, opening of culvert under road, looking southwest

4.2.2 Sallybrook House where it emerges from a culvert running through the Pat O'Donnell & the Pat O'Donnell & Co property. of approximately 5m at the northeast where it emerges from under the R639 road into Co. property. It is culverted through all of this property except for a small open section bridge which provides access to the house. The channel begins to the northeast of River approximately 20m southwest of the house. It is crossed by a modern timber footeastern sides of Sallybrook House and drains into the eastern side of the Glashaboy The watercourse runs in an earth-cut, L-shaped channel around the southern and Unnamed channel south at Sallybrook House: Riverstown townland (Plates 3 – 5)

features or finds of archaeological potential were identified. the mid/late 20th century. Semi-mature trees have grown up around the channel. No steeply and its appearance is consistent with a fairly recently constructed channel from detected in the course of metal detecting. The sides are evenly cut and slope quite built up. The rubbish is generally plastic and occasional modern metal objects were The channel bed is mostly stoney with some silty patches particularly where rubbish has



Plate 3: Unnamed channel discharging into the Glashaboy River, looking west



Lane Purcell Archaeology LPA961 Plate 4: Unnamed channel showing bridge to Sallybrook House, looking northeast

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4.2.3 Glenmore Stream at entrance to Copper Valley Vue and Brooklodge Grove Road (Plates - 10) СЛ

water. rectangular in section and of concrete construction and both carry a steady flow of was a shallow flow passing through this channel. The two western channels are water level at the time of the survey in July), however, on previous visits in April there (downstream) side was such that there was no through flow of water (given the low rubble, segmental arch and its bed is heavily silted. The silting to the southern two western ones downstream of it. The eastern channel comprises a narrow, random are three channels extending under the road, the eastern one upstream of the weir and stream. The weir is of concrete construction and partially covered in vegetation. There approximately 1.2m wide and 0.15m deep at the upstream end extending across the under the road, random rubble walls define both sides and there is a small stone weir is wide and earth cut with a stoney and silty bed. Approaching the culverts running immediately to the south. The channel is fenced off from the garden and at the east end runs at the southern end of a front garden of a detached house with the road will extend at the west end to the entrance to Copper Valley Vue. The eastern section (comprising three separate culverts) running under Brooklodge Grove Road. The works The stream runs west in two open sections divided by a large culverted section

northern one A small section of the northern bank was earthen, approaching the access road to with an open metal barrier above defining the southern side of Brooklodge Grove Road stoney bed. The southern bank was earthen and most of the northern one was concrete Б Copper Valley Vue. Mature trees line the southern bank and the western section of the the south of the road and culverts the stream was quite wide and shallow with a

pipes and plastic rubbish. No archaeological features or finds were noted northern bank. The western section contained some modern rubbish including metal The eastern section of the stream was very clean with some modern pipes along the



Plate 6: Eastern culvert opening, north-facing elevation

Road to south (right). Opening to the rectangular culverted channels are visible at bottom right, looking east Plate 5: Glenmore Stream eastern section with garden to north (left) and Brooklodge Grove



Bleach Hill & Glenmore Streams and channel at Sallybrook Hse, Glanmire Co Cork

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Plate 7: Eastern culvert opening, showing dry south-facing elevation

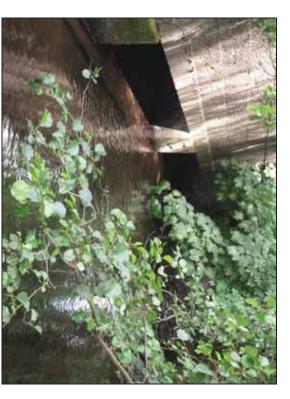


Plate 8: Western culvert openings, south-facing elevation



Plate 9: Glenmore Stream western section, looking east



Plate 10: Glenmore Stream western section, looking west

5 Conclusion and Recommendations

- 5.1 archaeological potential. survey. Each section was waded, metal detected and visually inspected to assess its and the unnamed channel at Sallybrook House in Riverstown formed the basis for the to Copper Valley Vue and Brooklodge Grove Road in Brooklodge Upper and Ballinglanna Bleach Hill Stream at Cúil Chluthair, Sarsfieldcourt, the Glenmore Stream at the entrance channel was carried out in July 2016 as part of the Glashaboy Flood Relief Scheme. The A licensed wading and metal detector survey on sections of 2 streams and an unnamed
- 5.2 other features were noted in/on the banks, edges or surrounding ground. adjoining Brooklodge Grove Road which is first shown on the 1902 25-inch map. No culvert, immediately downstream of it, probably relate to the construction of the stream between three culverts. The weir and the segmental arched random rubble approximately 1.2m wide and 0.15m deep at the upstream side and extended across the Sallybrook House. A small stone weir was noted in the Glenmore Stream, this was plastic rubbish, was apparent in the Glenmore Stream and unnamed channel at were detected, none of which were of archaeological significance. Modern, generally No finds of archaeological potential were revealed. A number of modern metal objects
- 5. С half of the 20th century. Notwithstanding the evidence of disturbance to these construction of the unnamed channel at Sallybrook House appears to date to second Hill Stream by the construction of the access road and culvert in the early 2000s, the that all of these watercourses have been disturbed by earlier construction works; Bleach the culverting of the existing unnamed channel at Sallybrook House. There is evidence include replacing existing culverts at Bleach Hill Stream and the Glenmore Stream and Ground disturbance associated with the proposed works for the flood relief scheme Hill and Glenmore Streams is recommended. Both streams run largely along their watercourses, however, archaeological monitoring of the construction works at Bleach later when the access road was built to Copper Valley Vue in the early 2000s and the Glenmore Stream was realigned when the road was built in the late 19th century and

therefore its archaeological potential is considered low half of the 20th century and does not appear to be on the line of an original watercourse. original course and the archaeological potential of such watercourses has long being recognised. The unnamed channel at Sallybrook House appears to date to the second

- 5.4 and random rubble culvert will be recorded prior to works commencing at this location. Brooklodge Grove Road at the turn of the 20th century. It is recommended that the weir the random rubble culvert date, probably, to the construction of the adjoining These works will impact the weir which is located between the culverts. The weir and re-grading to tie the new road over the new culvert back into the existing road levels. culverts (two of concrete and one of random rubble) and construction of a single new Works to the Glenmore Stream will comprise the replacement of the three existing larger one. Work will comprise excavation, temporary diversion of the stream and road
- თ .თ outlined in Policy and Guidelines on Archaeological Excavation – Department of Arts, Such material will be preserved in situ or preserved by record, as appropriate, as the features will be fully resolved to professional standards of archaeological practice. monitoring, consultation will be undertaken with the National Monuments Service and In the event that archaeological features are identified during archaeological Heritage, Gaeltacht and the Islands.
- 5.6 and the planning authority. All recommendations are subject to the approval of the National Monuments Service

Wading & Metal Detection Survey

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Monuments Service, Department of Arts Heritage and the Gaeltacht The Ports, Piers and Harbours Inventory of Ireland at the Archive Unit of the National

Appendix 13.3

Dive Survey of the Glashaboy River

Note - Appendix 13.2 and 13.3

implemented which are not reflected in the wading survey and dive survey of either survey. Following the completion of both, design changes were Monuments Service. The design of the scheme had not been finalised in advance consultations with the Underwater Archaeological Unit of the National carried out during the course of the compilation of the EIA as a direct response to reports. Full and final details of the scheme are included in Chapter 13. Both Appendix 13.2 (Wading Survey) and Appendix 13.3 (Dive Survey) were

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Underwater Archaeological Impact Assessment Report Project: Glashaboy Flood Relief Scheme

Prepared by: Julianna O'Donoghue on behalf of Lane Purcell Archaeology

Date: September 2016

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k	CHS 15 Revetment wall on west bank
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Plate 16: View of CHS 06 weir, Pike Mill, taken from north-northeast.

Plate 17: View of CHS 06 weir, Pike Mill, taken from northeast.

Plate 18: View of CHS 06 weir, Pike Mill, taken from west-southwest.

Plate 19: View of CHS 06 weir, Pike Mill, taken from southwest.

Plate 20: View of CHS 06 weir, Pike Mill, taken from south.

Plate 21: View of CHS 06 weir, Pike Mill, taken from north.

Plate 22: View of CHS 06 weir, Pike Mill, taken from south.

Plate 23: View of CHS 07 head race Pike Mill, taken from northwest

Plate 24: View of CHS 08, revetment wall taken from north.

Plate 25: View of CHS 08, revetment wall taken from west.

Plate 26: View of CHS 09, revetment wall taken from east.

Plate 27: View of CHS 10, tailrace, Spring Hill Mill, taken southeast.

Plate 28: View of Glashaboy River, looking upstream, taken from CHS10

Plate 29: View of CHS 09, taken from north.

Plate 30: View of revetment wall approaching headrace CHS 11

Plate 31: View of headrace CHS 11, taken from west.

Plate 32: View of stone feature, possible remains of weir, taken from west

Plate 33: View of CHS 12, bridge taken from northeast

Plate 34: View of CHS 12, bridge with pedestrian bridge extension and recent earthen embankment to northeast.

Plate 35: View of CHS 12, bridge, blocked up arch on northwest.

Plate 36: View of CHS 12, bridge, carriageway.

Plate 37: View of CHS 12, bridge, western side of downstream elevation.

Plate 38: View of CHS 12, bridge, cutwater on downstream elevation.

Plate 39: View of CHS 12, bridge, downstream elevation.

Plate 40: View of CHS 13, from south.

Plate 41: View of CHS 13, from south.

Plate 42: View of CHS 13, from south.

Plate 43: View of CHS 13, from south.

Plate 44: View of CHS 15, revetment wall, taken from southeast.

Plate 45: View of CHS 16, revetment wall, taken from east.

Plate 46: View of CHS 17, revetment wall, taken from west.

Plate 47: View of CHS 17, revetment wall, taken from northwest.

Plate 48: View of CHS 17, revetment wall, taken from west.

Plate 49: View of CHS 18, tailrace, taken from west.

Plate 50: View of CHS 18, tailrace taken from southwest.

Plate 51: View of CHS 20, revetment wall, taken from south.

Plate 52: View of CHS 19, revetment wall, taken from north.

Plate 53: View of CHS 20, Sand Quay.

Plate 54: View of Glashaboy Estuary.

1. Introduction

This flood relief scheme on that cultural resource. asset of the Glashaboy River in order to assess and mitigate the potential impacts of the proposed Scheme EIS. Archaeological Services as an appendix to the Cultural Heritage Section of the Glashaboy Flood Relief underwater The primary objective of the study was to determine the cultural heritage resource , archaeological survey report was undertaken by Julianna O'Donoghue

be read in association with it. Consequently, this report only briefly references the wider cultural heritage resource, and its association with the significance of the Glashaboy River. As this intra-riverine study constitutes an appendix to Cultural Heritage Chapter of the EIS it should

2. Location

regions in County Cork during the 19th century (O'Flanagan 1993, 444-6). The assessment consisted streams that collectively were harnessed to power what became one of the most important milling the inner reaches of Cork Harbour. Along its route the Glashaboy is joined by a myriad of rivulets and North, South and East, flows in a general south-south-easterly direction through the villages of townland of Glashaboy North. The river which gives its name to three townlands viz Glasaboy, The Glashaboy River (An Ghlaise Bhuí - the yellow stream) rises on the south-eastern limits of Bottle of seven distinct sections of the Glashaboy River between Sally Brook and Glanmire. Carrignavar, Sallybrook and Glanmire before issuing into the estuary of the Lee River at Dunkettle in Hill c.6km north-east of the village of Carrignavar (Carraig na bhFear - rock of the men) in the

3. Methodology

titled Works Overview 1 & 2 (Figs.2 & 3). survey. The study area was based on two designated maps supplied by Purcell Lane Archaeology The study comprised desktop research and a licensed intra-riverine visual and metal detection

3.1 Desktop Study

- site www.archaeology.ie. These were used to establish the archaeological context of the (NMS) of the Department of Arts, Heritage, Regional, Rural and Gaeltacht Affairs at monument records are also accessible online from the National Monuments Service monuments Ireland comprises lists, classifications of monuments, and maps of all recorded The Record of Monuments and Places (RMP) compiled by the Archaeological Survey of with known locations and zones of archaeological significance. The
- (www.excavations.ie). archaeological The Excavations Bulletin and its online database which contains summaries of all excavations carried out ⊒. Ireland, was also examined
- ٠ a full list). Cartography: Several historic maps and charts were examined (see references below for
- • examined see References below Documentary sources: Several sources were examined, for a full list of all sources Aerial Photography: A variety of low and high altitude aerial photography was examined.

3.2 Visual and metal detection survey

were recorded photographed and GPS referenced. (Licence Numbers 16E316, 16D0057, 16R0102) issued to Julianna O'Donoghue. Identified features underwater archaeologists. A visual and metal detection survey was carried out under a licence Seven areas of watercourse along the Glashaboy River were visited and examined by a team of three

3.3 Underwater Survey

assigned generic numbers commencing with CHS 1. A total of twenty cultural heritage sites were 1 & 2 provided by Lane Purcell Archaeology. Cultural heritage sites recorded during the survey were Seven separate areas (Study Areas 1-7) were designated for inspection on the Works Overview Map recorded along the entire study area.

4. Constraints and Technical Difficulties

defences were provided upon the completion of the fieldwork. of the flood relief scheme was not finalised at that stage. Detailed drawings of the proposed flood Only preliminary location maps (Fig. 2 & 3) were provided for undertaking the survey as the design

the dredging on the cultural heritage could not be fullly determined. The extent of proposed channel clearance/dredging is not yet determined, therefore the impact of

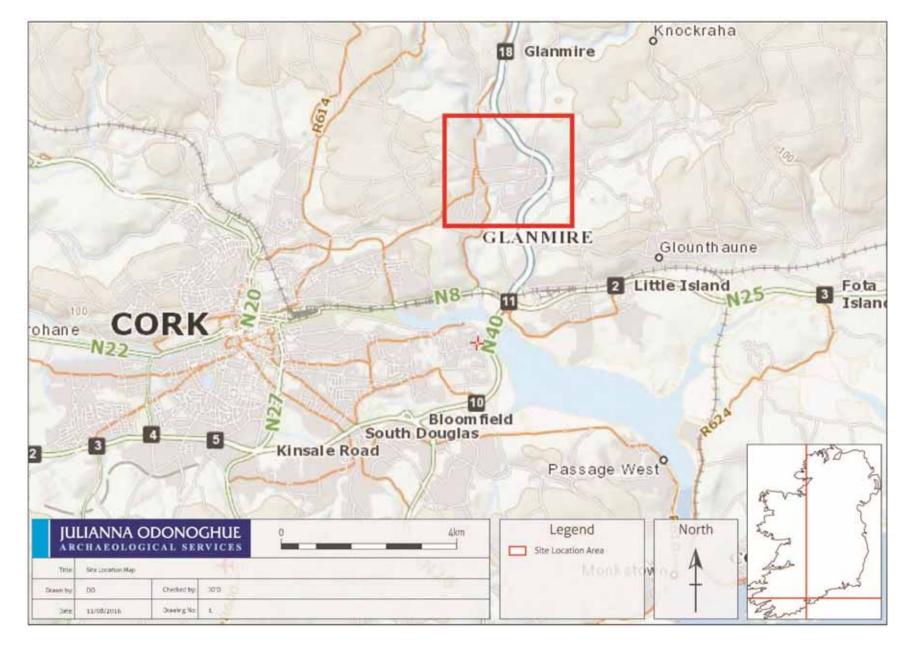


Figure 1: Site Location Map

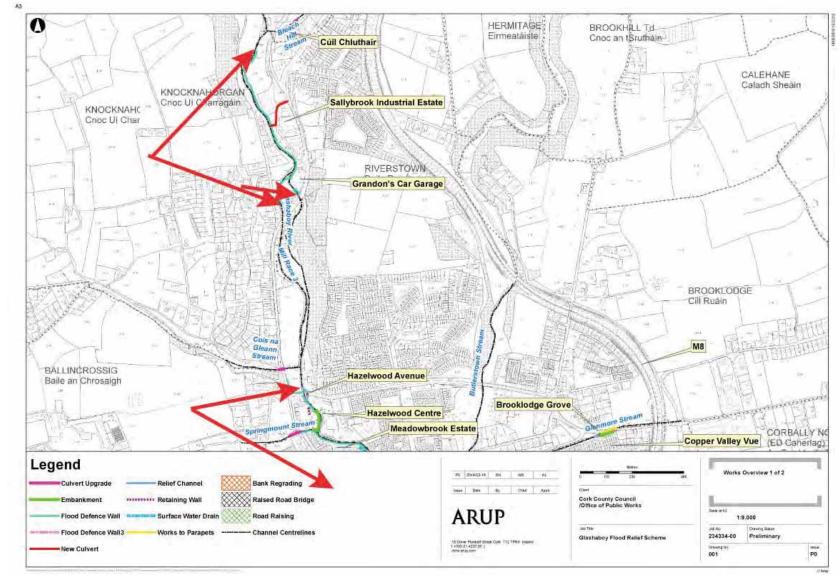


Figure 2: Works Overview Map 1 supplied by Lane Purcell Archaeology

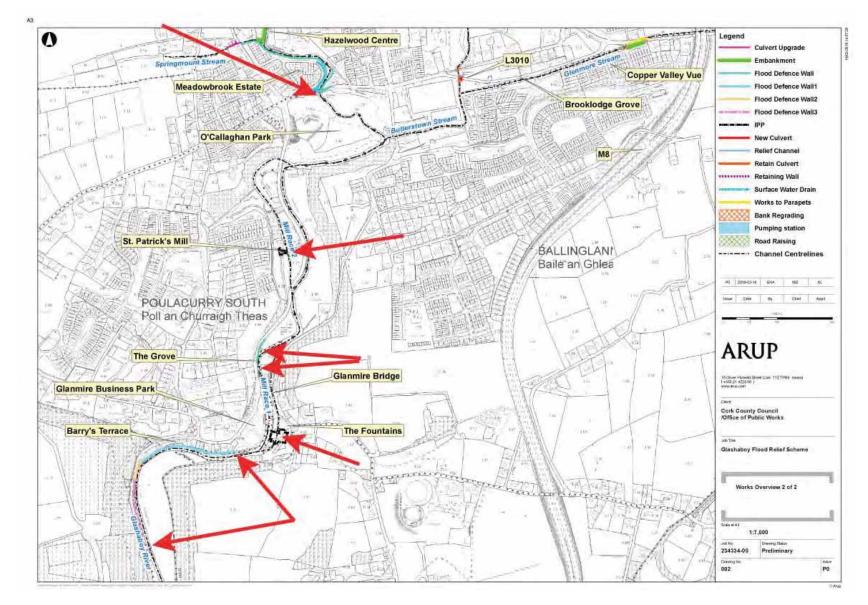


Figure 3: Works Overview Map 2 supplied by Lane Purcell Archaeology

5. Archaeological and Historical Context

5.1 Preamble

settlers and historic communities. The river was central to the establishment of Riverstown and for this area of Cork as it would have served as strategic geographic link and conduit for prehistoric Glanmire and contributed enormously to the local economy. Archaeologically the Glashaboy River should be interpreted as an important cultural resource asset

5.2 Mesolithic Period

the majority of the evidence (flint scatters) for Mesolithic occupation has 'come from the Blackwater valley in Co. Cork' (Woodman 1989, 116). Flint scatters were recorded in the townlands of have been identified at several locations, especially along the coasts and river valleys. In Munster, rivers and lakes; the waterways providing a means of movement through the landscape. The main rare in Ireland, they are usually found in low-lying areas close to water, along the islands coastline, mammals such as deer or wild cattle did not exist (O'Brien 2012, 32). Although Mesolithic sites are plethora of seasonal gathered fruits and edible roots and plants. The Irish Mesolithic (c. 8000-4000 marine resources provided a wealth and of fish, shell-fish, wild fowl and wild boar as well as a estuaries, creeks and rivers, were Mesolithic hunter-gatherer-fisher groups. The rich riverine and throughout all the cultural periods. The earliest people to exploit the harbour area, along its Estuaries, rivers and their tributaries were and continue to be important route-ways for people and at Goretore and Ballinglanna on the Funcheon River. Kilcummer Lower on the banks of the Blackwater, Ballynamona and Wallstown on the Awbeg River indicators of Mesolithic activity in Ireland take the form of flint scatters and shell middens etc. which BC) is particularly characterised by fishing and exploiting of coastal riverine resources as large

temporary settlement at certain times of the year for early Mesolithic hunter-gatherers. As a result, of the Glashaboy River, this does not discount the possibility of Mesolithic activity in the area. The river banks. it is possible Mesolithic material culture could be retained with the river deposits and along adjacent valley slopes overlooking the Glashaboy River and its tributaries may have been ideal locations for Despite the general under-representation of recorded Mesolithic sites in the surrounding hinterland

5.3 Neolithic Period

shaped the land, and fished and migrated along the harbour, estuaries and rivers using dugout first farmers cleared space in the forests, built rectangular wooden houses, made pottery and The first people to settle and farm the area date to the Neolithic period (c.4000BC-2400BC). These around Cork. canoes. The excavated remains of their houses and tools have been found at a number of locations

total number of stone axes recorded in Ireland has risen from 16,000 specimens to over 20,000 and Late Bronze Age metalwork in some large rivers in Ireland. The stone axe is predominantly a Shannon Feale etc. This is evident from the numerous deliberate deposits of Neolithic stone axes places or locations 'between worlds', where spirits, gods or even ancestors could be communicated In prehistory and up to the advent of Christianity, rivers, lakes and ponds were often seen as 'liminal' of these were probably accidentally lost and some river finds may derive from riverside settlements, (Cooney and Mandal 1998, 28). Of this total 45% have been recovered from riverbeds. While some diagnostic tool of the Neolithic period and an essential item for forest clearance. In recent years the with. Many rivers both in Ireland and abroad are named after female goddesses e.g. the Boyne,

recovered from the Glashaboy, it is possible that some locations along the river were selected for others may represent deliberate ritual offerings. Although no such artefacts have thus far been deliberate votive deposition in prehistory.

freshwater sources were equally important during this period due to the importance of pastoral slopes overlooking large lakes or rivers and estuaries (Grogan 1996, 57). This indicates that large with stone axes to create fields. Many Irish Neolithic houses are located on sheltered, south-facing situated adjacent to the Glencorra Stream. houses flanked both banks of the River Funshion, while two other houses at Ballinglanna North were farming and the need for water to be available to cattle herds. At Gortore, North Cork, two Neolithic Neolithic farmers rendered major transformations in the Irish landscape – clearing dense woodlands

areas' close to rivers were chosen for specific actions requiring water and other raw materials such were also needed for pyrolithic water-boiling (Hawkes 2014). It is therefore possible that 'activity with water, fuel and stone tempers were used in the production of pottery, while similar resources installations began to be used for different purposes other than for cooking and warmth. Fire, along as woods and clays. The Neolithic is a period in which pyrotechnology became more sophisticated. Hearths and fire

5.4 The Chalcolithic and Bronze Age

that followed there was widespread production of copper objects and, to a lesser extent, goldwork, Beaker pottery in favour of new ceramic traditions that marked the developed Bronze Age introduction of an already developed copper metallurgy around 2500 BC, coincident with the first It is broadly accepted that there was an important transition period at the end of the Neolithic in around 2150–2000 BC, with a slow introduction of tin-bronze metallurgy and the declining use of on a technological par with contemporary metalworking in Europe. This transition period ended use of Beaker pottery, a new monument tradition and changed funerary practices. In the centuries Ireland that spanned the second half of the third millennium BC. This was marked by the

sudden cooling process and casually discarded. Through time the discarded shattered stones the presence of one or more low mounds or spreads of heat-shattered stone and charcoal, which could lie unrecorded closer to the Glashaboy itself. The mounds may have been levelled in the past banks of the Glashaboy, many are situated in the environs of the river, in wet marshy locations. spring, pond, lake, turlough bog or marshy area. While no fulachta fiadh are recorded along the situated in low-lying, poorly drained, marginal land close to a water source, such as a river, stream, gradually accumulated to form a low mound or spread also containing charcoal. They are usually in the trough to heat water. After numerous firings these stones were eventually shattered by the often overlie a hearth feature and a pit used as a water trough. The burnt mound material was the vicinity of the Glashaboy River. Fulachta fiadh, also referred to as burnt mounds, are manifest by later extending into the Iron Age or historical period. A number of fulachta fiadh are also recorded in fulachta fiadh. Standing stones are generally thought to be of Bronze Age date, but may also be Bronze Age activity in the Glashaboy study area is indicated by the presence of standing stones and or covered with alluvial silts from the river. Typically, burnt mounds in this part of Cork do not have a surface expression and therefore many produced by the use of a pyrolithic technology, whereby hot stones from the hearth were immersed

Bronze Age a possible dugout canoe was re-used as a trough in a fulacht fiadh (CO064-152), (Hanley During excavations in 2000 at Killalough, c. 2km NE of the Glashaboy and on a tributary of it a Middle and Hurley 2013, 128).

therefore, may well have been an elite ritual activity. Some finds may reflect the proximity of dense Bronze Age presence in this part of Cork would indicate that the Glashaboy River played an and exchange. Again, while no Bronze Age artefacts have been recovered from the Glashaboy, the undoubtedly important route-ways and they may have also provided suitable locations for barter weaponry (most notably in the Later Bronze Age). Much of the bronze weaponry has been recovered important role. settlements and others may be the result of loss – for river systems, such as Glashaboy were from water contexts. These bronzes were valuable commodities not lightly discarded and this, The advent of the discovery of bronze witnessed the manufacture of an expansive array of tools and

would have been important locations for local communication needs. Knowledge of fording points Consequently, they are often productive as find spots for artefacts. The dry ridges alongside rivers would have been the foci for settlement and river crossing-points As people were vulnerable at fording points, they were often attacked there with the loss of goods. were crucially important for communities and travellers for moving family and livestock and I goods.

as Parliamentary, Parish and townland boundaries. boundaries as population levels increased and landownership developed. The Glashaboy River functioned as part of the boundary between the ancient baronies of Cork and Barrymore and later As well as functioning as an important communication network, rivers also served as important

5.5 The Iron Age

Dubh, a name given to three separate stretches of linear earthworks in County Cork. culture characteristic of this period. One of the few upstanding Iron remains in Co. Cork is the Cliadh because of reduced archaeological visibility and a general absence of monuments and material The Iron Age (600BC- AD400) is possibly the most obscure period in Irish prehistoric archaeology. In comparison to the Bronze Age, relatively little is known about the Iron Age in Munster. This is largely

the Great were found as well as others from Ballyphehane in Cork City (O'Brien 2012 249-250). from Cuskinny, Cobh (ibid). In the late 1880's Roman coins ranging in date from Claudius Gothicus Horns' that were found in mud dredged from the River Lee Channel in 1909 near Victoria Road Harbour area is best exemplified artefactually by a set of three bronze horns, known as the associated with roadwork construction have identified a number of round houses from the period (AD 278-270) and the younger Constantine (AD 337) as well as coins from Chlorus and Constantine Evidence of trade into Cork Harbour from the Roman Empire is shown by a hoard of ten Roman coins near Ballincollig and Youghal and Mitchelstown (ibid 235). Evidence of Iron Age activity in the Cork Settlement evidence in the Iron Age is absent from the study area although recent excavations 'Cork

5.6 The Early Medieval Period

earthen banks and external ditches or fosses. Ringforts were essentially the dispersed rural monuments (generally known by their Irish names Rath and Lios) are the most obvious extant The archaeology of the early medieval period in the study area is exemplified by ringforts. These farmsteads of the Early Medieval Period. monuments in the landscape. These sites consist of circular or roughly circular enclosures with

1994). mills. There is one horizontal wheeled mill (CO064-146) in Crushyriree in the central part of the functioned in a similar way during the early medieval period, driving timber-built horizontal water eighteenth and nineteenth centuries. However, it is also possible that the river and its tributaries Butlerstown River and was subsequently excavated and dated to approximatley AD 800 (Cotter Study Area. It is evident that the Glashaboy River served as an important source of power for mills during the This was identified during drainage works in 1994 on a stream which flows into the

wheel, composed of paddles, in the chamber below. Water was channelled by means of a millrace for the grain, while a vertical shaft connected the upper grinding stone with a horizontal waterdesignated mills. Such mills were a significant source of income for the ecclesiastical and territorial commonplace. This changed after the Anglo-Norman invasion, when all grain had to be ground at watermills in early medieval Ireland, the grinding of grain by hand, using quern stones, remained upper and a lower room. The upper room contained the grinding stones and the hopper mechanism steams and, also, because of the absence of gears, it was comparatively simple and cheap to build. Horizontal wheeled mills are the earliest example of hydro-engineering known in Ireland and usually lords who monopolized the manufacture of flour until the close of the Middle Ages and a chute so that it fell onto the horizontal wheel causing it to turn. Despite the ubiquity of Typically, the horizontal mill was housed within a two-storey, rectangular structure consisting of an preferred form in early medieval Ireland, probably because it was better suited to small, fast-flowing are revealed during drainage or land improvement works. The horizontal watermill was the

5.7 The High Medieval Period

are surprisingly rare in the East and North Cork areas, considering that the area was intensively the latter were probably built on the sites of earlier churches. Earthwork fortifications of this period period is marked by the construction of mottes, moated sites, castles and churches, though many of introduced which led to increased woodland clearance, more emphasis on arable agriculture and a twelfth and thirteenth centuries, the Anglo-Norman invasion and colonisation had a major impact on In 1169 the first advance wave of Anglo-Normans, invaders arrived at Wexford. During the late settled by the Anglo-Normans. burgeoning economy in the intensely settled lands of the east. In terms of archaeological sites, the the Irish landscape. Nucleated settlements were established and a manorial / baronial economy

themselves lands eventually encircled Cork City, and by frequent dissention among the Anglo-Norman lords In Cork the period was marked by the eastward advance of the MacCarthys to the extent that their

sites are normally defined by a large and deep ditch, with an internal bank of clay (the ditches are they may represent a second wave of settlement into more marginal land (Empey 1982). These equally important route-way during this period and would have facilitated trade to moated sites, advance of the N8 Glanmire Watergrasshill by-pass. The Glashaboy River would have been an Area and a further five possible examples, one of which was partially excavated at Ballinvinny in been surmounted by a wooden palisade of stakes or planks. There are four moated sites in the Study often no longer visible, having completely silted up). For added protection the bank would have have necessitated the construction of more defensive settlement types (see Barry 1987). Moated areas came under increasing pressure from Irish attacks in the 13th and 14th centuries and this may were often built on the outer edges of the Anglo-Norman colonies and it has been suggested that may also have represented outlying grange farms associated with monastic establishments. They farmers and would have formed the focal point of large agricultural estates. surrounding landscape. They were most likely the homes of minor lords and well-to-do tenant Moated sites provide the earliest physical evidence for Anglo-Norman settlement in the country. tower houses and religious houses. These were manorial centres from which control was exerted over agricultural production in the In some instance they

Crafts such as these may have been commonplace on the Glashaboy River during the medieval 1100 and 1534. Several dug-out canoes dating to this period have been discovered in Irish rivers. There are a number of annalistic references to the use of boats on Irish lakes and rivers between slopes of the Glashaboy Valley. period used by farmers and fishermen inhabiting areas close to the riverbanks and the southern

5.8 The Post-Medieval and Modern Period

farmers—eked out a modest existence in small cottage plots, applying what trades and skills they industrial scale. Those working the land-the typically Catholic cottiers, labourers and tenant brick kilns provided building materials and mills helped process and output commodities at a more former open countryside were enclosed, forming completely new field systems; new roads and medieval village as the economic power centre in rural areas (Smyth 1993, 670). Expansive areas of open countryside and clustered village strip fields. In many cases, such as in large swaths of County landscape, peaking in the late 18th/early 19th century, when the modern field systems of linear that ensued. could, in the context of a greatly expanding population and the corresponding demand on resources trackways were constructed; quarries opened and limekilns produced lime for fertiliser and mortar; Cork, the 'big country house' of the typically Protestant landlord or head tenant eclipsed the later hedgerows began to emerge, almost completely erasing the former later medieval landscape of Archaeologically, this period can be characterised by the rapid large-scale reorganisation of the

shown on the 1842 OS map and many are shown and named on subsequent editions, often after could be transported by water-carriage via the river to a quay at Glanmire Village. All of the mills are cloth mills, spade mills, tuck mills and corn mills. All of these mills were strategically placed to stability to areas along the Glashaboy. For instance, the Riverstown Paper Mill, established during their use had been changed. During the period 1700-1900, the mills brought social and economic harness the water power of the Glashaboy River. Manufactured goods and produce from the mills are a large number of mills of various types along its course. These include woollen mills, paper mills, During the post-medieval period the Glashaboy valley became a centre of industrial activity. There the 1700s, produced 190 reams of brown paper per week for the local market during the early

coopers, carpenters, blacksmiths, millwrights, fitters, labourers, spinners and weavers. 1880s. As major employers, the mills provided an alternative to agricultural work, employing

Brewery on the 1902 edition reflecting its change of use. River to the quay at Glanmire Village. The building was named 'Distillery' on the 1842 OS map and distillery recorded at Ballinglanna on the Glashaboy River. This was founded in 1820 by the Lyons mills are mill ponds and mill races, and other associated buildings and structures. There is also a the Tuck Mill in Brooklodge, which is located on the Butlerstown River. Associated with many of the Most of these mills are situated on, and were powered from, the Glashaboy River except the paper and other resources for the distillery was transported from Cork by water-carriage via the Glashaboy family. With a workforce of 60, the distillery produced 180,000 gallons of whiskey every year. Coal mill in Ballycurreen known in 1842 as the Glenmore Paper Mill, which is on the Glenmore River and

thousands of years – serving as important food, resources, route-ways, crossing points and as useful area of Cork from its earliest times to the more recent past. Rivers have been used by humans for floodplains and southern slopes. that much of this archaeological evidence lies hidden either within the river itself or along its banks, course, earlier societies' impact and use of the river is less visible. However, it must be remembered power sources. While the Glashaboy River Valleys more recent history is still quite evident along its It is clear that the Glashaboy and its tributaries played an important role in the development of this

6. Results

Survey Area 1 ITM Co-ordinates: E572498, N577136 to E572566, N576428 Townland: Riverstown / Knockhorgan Figures: 4-6 Plates: 1 – 22

Sarsfieldscourt, Knocknahorgan and Riverstown beside the L2973 roadway. The end point for Survey Area 1 was to the south of a weir associated with Pike Mill. Survey Area 1 commenced in the Glashaboy River just south of the junction of three townlands,

situated just outside the study area; a mill-weir and mill-race (headrace) associated with Sallybrook extends in a general southerly direction before making a sharp westerly turn into the mill structure. provided to control water entering the headrace beside the weir. The substantial 377m headrace By the turn of the century the paper mill had been adapted as a Woollen Mill and two sluices integral elements of a paper mill complex associated with Sallybrook House immediately downriver. Mill (RMP CO063-069). The mill-weir and headrace are denoted on the 1st edition 6" OS map as Six features of cultural heritage were recorded in Survey Area 1. Two cultural heritage features are Reg. No. 20906332) was formerly the miller's house constructed c. 1880. The headrace runs parallel to the driveway entrance to Sallybrook House. Sallybrook House (NIAH

CHS No. 01

the bricks lying on the riverbed was stamped 'Youghal Brick Co. Ltd. Youghal' (Plate 5). It may not be fully uncovered (Plate 3). Some 20m downstream another ex situ block of bonded redbrick redbrick on the western side partially exposed in the riverine gravels and cobbles. The redbrick Within the river and close to the location of the sluice is a detached coherent ex situ mass of bonded represent the remains of a collapsed wall or culvert. was discovered as well as several other individual red bricks strewn on the riverbed (Plate 4). One of feature measured 0.8m N-S by 1.5m E-W. As the overburden reached 0.7m in depth, its extent could

Impact

No impact.

Mitigation

No mitigation required.

CHS No. 02 Boundary Wall

direction. It is constructed of rubblestone built to courses and bonded with a gravel mortar. It is a (Plates 6 & 7). On the 1st and 2nd edition OS map a boundary is shown at this location marking the substantial wall measuring 1.08m in thickness with a maximum height of 3.20m limits of Knocknahorgan Woods opposite Sallybrook Mill. The wall is orientated in an ENE-WSW This is a robust boundary wall on a very steep sloping section of the west bank covered in vegetation

Impact

No impact.

Mitigation No mitigation required

CHS 03 Revetment wall on East bank

is obscured by sheets of corrugated iron at the southern end of Sallybrook Industrial Estate. Part of undermined in places with the current riverbed level circa 0.6m below the base of the wall. The wall 9). It was traced for a distance of 80m but it has collapsed in some sections. It is significantly limits but due to bank erosion and tree root action the wall is in a poor state of preservation (Plate best surviving section of the wall measures 1.6m in height. It evidently extended beyond its current 8). The stones generally measure between 0.3m x 0.20m x 0.20m and 0.60m x 0.40m x 0.30m. The Industrial Estate (Fig. 4-6, Plates 8-10). The wall is constructed of uncoursed rubble sandstone (Plate the wall has been replaced by rock armour and concrete to the rear of Grandon's Garage. A revetment wall was recorded along the eastern bank between Sallybrook House and Sallybrook

Given its location it appears to be part of the curtilage of the RPS Sallybrook House and Sallybrook Mill (CO063-069) on the National Monuments Service on-line database. Mill. However, there is no zone of notification associated with the recorded monument Sallybrook

Impact

works. Possibility of negative impact on sections of existing river revetment wall by proposed construction

Mitigation

Mitigation by archaeological record. Full archaeological recording should be undertaken of any sections of the original river revetment walling which will be impacted by the construction work.

CHS 04 Revetment wall on west bank

spate. wall is very much eroded and only portions of it survive (Plates 11-14). It is undermined and situated on a bend of the Glashaboy River to counter erosion from river action especially when it is disturbed by tree root activity and water erosion. This revetment wall appears to be strategically Plates 11-14). It is of random rubble construction and survives to a maximum height of 1.7m. The A revetment wall is located in the southern half of the Survey Area 1 on the western bank (Fig. 4-6,

Impact

Impact

No impact.

Mitigation

No mitigation required.

CHS 05 Tailrace Sallybrook Mill

and 2nd edition OS maps (Figures 5 & 6). Of interest is that the tailrace of Sallybrook formed the This component of the recorded monument of Sallybrook Mill is cartographically indicated on the 1st riverbank was examined for any surviving elements of the tailrace but no physical remains were headrace of a second mill complex immediately downriver (see Pike Mill, CHS6 below). The eastern

identified and it appears to have been backfilled. However, it is possible that sub-surface remains of tailrace may be preserved within the riverbank and grounds of Sallybrook Industrial Estate.

Impact

proposed construction works Potential discrete subsurface sections of the Sallybrook Mill tailrace may be impacted by the

Mitigation

archaeologist. Licensed archaeological monitoring should be undertaken by an experienced underwater

CHS No. 06 Pike Mill weir and sluice

number of larger squared limestone blocks also form its surface. 0.35m x 0.10m, laid on edge at a 90° angle to the limestone blocks forming the north face. A small thickness. The northern elevation is currently 0.28m in height and a build-up of sediment was noted nicely dressed limestone blocks set on edge between 1.63m and 2.02m in length and 0.15m in low vertical sides and a moderately sloping 2.0m wide glacis. The northern elevation consists of extends diagonally across the river in an NNW- SSE direction for a distance of 18.70m (Plates 16-22). This weir and headrace is shown on the 1st and 2nd edition OS maps (Fig 6-7). The Pike Mill weir at its base. The glacis masonry is constructed of small tightly set well matched stones, averaging The river would have been widened and modified to create the weir originally. In profile the weir has The diagonally disposed weir thus creates a controlled head of water for release into the headrace.

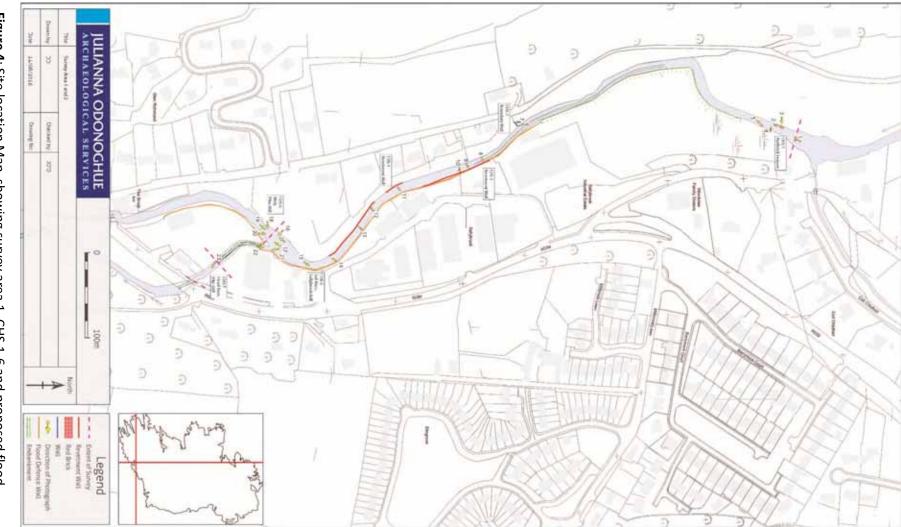
western riverbank which is concealed beneath dense vegetation that restricted close inspection. The SE limit of the weir abuts the sluice which serviced Pike Mill. The latter corner has been impacted by wider cultural aesthetics of the site. where it ties into the headrace. The consequential damage to the weir has negatively impacted the inappropriate modifications to the bank including the pouring of concrete onto the weir structure The main channel flows on the eastern side of the weir. The NW corner of the weir connects to the

Impacts

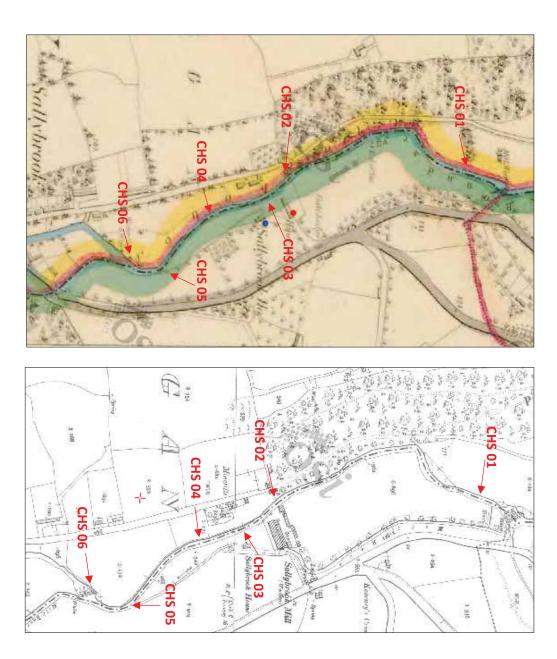
- There will be no impact on the weir by the proposed works.
- formed part of the feeder or training wall into the sluice of the mill race Possibility of impact by the proposed works on a section of walling on the east bank that

Mitigation

sympathetic material to minimise potential negative aesthetic visual impacts. Mitigation by avoidance. Where possible, impact by the construction works on the existing sluice wall should be avoided. If unavoidable the proposed construction works should be faced with



relief measures. Figure 4: Site location Map, showing survey area 1, CHS 1-6 and proposed flood



Top right Figure 6: Extract from 2nd edition Ordnance Survey map, showing survey area 1, CHS 1-6 Top left Figure 5: Extract from 1st edition Ordnance Survey map, showing survey area 1, CHS 1-6

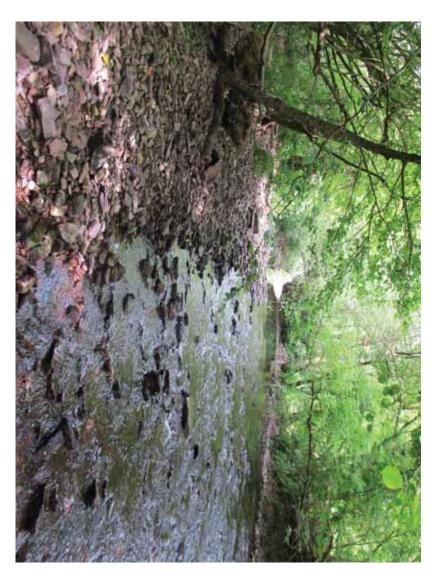


Plate 1: View of Glashaboy River, looking downstream, taken at northern limit of survey



Plate 2: View of CHS 01, taken from south.



Plate 3: View of CHS 01, taken from west.

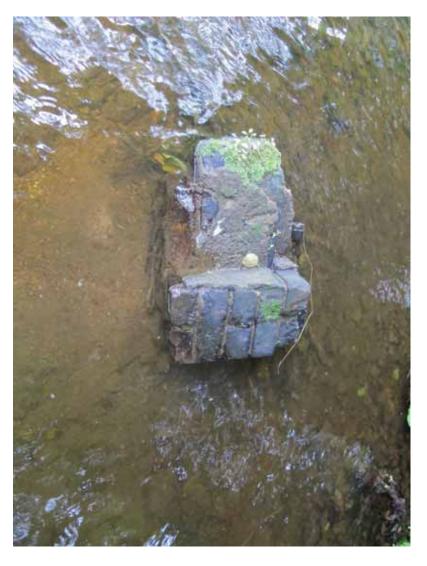


Plate 4: View of redbrick on east bank of river.



Plate 5: View of inscribed redbrick.

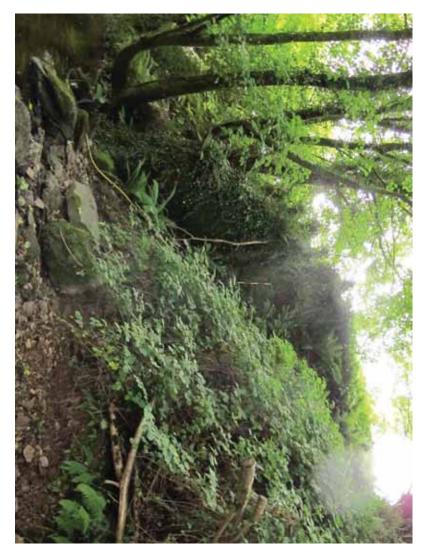


Plate 6: View of CHS 02 Boundary wall, taken from northeast.



Plate 7: View of CHS 02 Boundary wall, taken from northeast.



Plate 8: View of CHS 03, revetment wall, taken from west.



Plate 9: View of CHS 03, revetment wall, taken from west.



Plate 10: View of CHS 03, revetment wall, taken from west.



Plate 11: View of CHS 04 revetment wall, taken from northeast.



Plate 12: View of CHS 04 revetment wall, taken from northeast



Plate 13: View of CHS 04 revetment wall, taken from northeast.

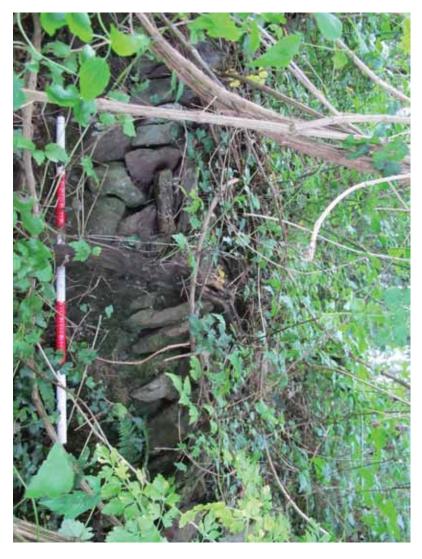


Plate 14: View of CHS 04 revetment wall, taken from northeast



Plate 15: View of CHS 05 tailrace, Sallybrook Mill, taken from southwest.



Plate 16: View of CHS 06 weir, Pike Mill, taken from north-northwest.



Plate 17: View of CHS 06 weir, Pike Mill, taken from northeast.



Plate 18: View of CHS 06 weir, Pike Mill, taken from west-southwest

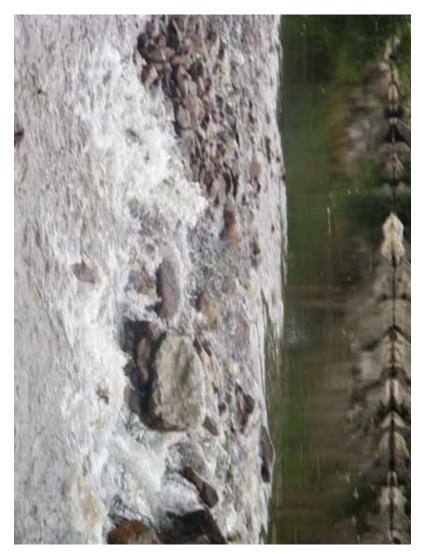


Plate 19: View of southeast side of CHS 06 weir, Pike Mill, taken from southwest.



Plate 20: View of CHS 06 weir, Pike Mill, taken from south.

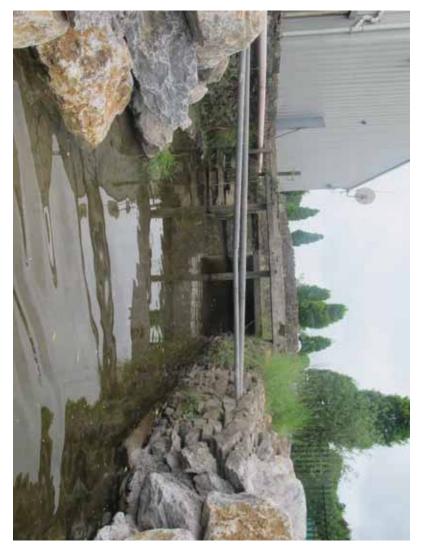


Plate 21: View race/sluice, Pike Mill, taken from weir to north.



Plate 22: View of CHS 06 weir, Pike Mill, taken from south.

Survey Area 2 ITM Co-ordinates: 572650, 576448 to 572663, 576430 Townland: Riverstown Figures: 5 Plate: 23

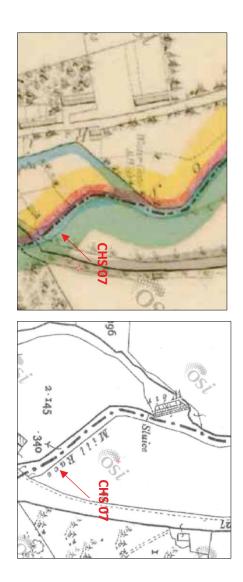
CHS 07 Headrace of Glansillagh Mills

on both the 1st and 2nd editions of the OS maps, sheet 63. beside the R639 roadway. Water was channelled through this race from a weir on the Glashaboy River (CHS No. 06) to the mill pond associated with Pike Mill (CO063-094). The headrace is indicated This survey area comprised a short section of a headrace within the grounds of Grandon's Garage

consists of gabion walls with boulders at the SE end. The original banks appear to have been removed or may be concealed behind the gabion walls. The banks/ side walls of the mill race have been significantly modified (Fig. 4,7 & 8; Plate 23). It now

Impact No impact.

Mitigation No mitigation required.



Above right Figure 8: Extract from 2nd edition Ordnance Survey map, showing survey area 2, CHS 7 Above left Figure 7: Extract from 1st edition Ordnance Survey map, showing survey area 2, CHS 7



Plate 23: View of CHS 07 head race Pike Mill, taken from northwest.

Survey Area 3

ITM Co-ordinates: 572681, 575580 to 572942, 575205 Townland: Riverstown, Ballincrossig and Poulacurry North Figures: 9-11 Plates: 24-39

9-11). extended from just north of the L2966 roadway beside Hazelwood Avenue to Riverstown Bridge (Fig Survey Area 3 is located within the townlands of Riverstown, Ballincrossig and Poulacurry North. It

CHS 08 Revetment wall on east river bank

is of random rubble construction. An average height of 1.7m was recorded. At the northern limits of 24 & 25). the survey a section of stone paving measuring 7.4m x 1.0m is present at the base of the wall (Plate modern wall types including gabion walls, concrete walls or simply revetted with railway sleepers. It in places exposing an earthen bank. In other sections it is replaced in an ad hoc fashion with various A riverbank revetment wall extends along most of Survey Area 3 (Fig. 9) albeit with sections missing

Impact

ω sections of revetment wall adjacent to Riverstown Bridge at the southernmost limits of Survey Area Survey Area 3. However, there may be impacts by the construction of the flood wall on the surviving There will be no impact by the proposed works on the revetment wall at the northern limits of (See CHS 12 below & Fig. 9).

Mitigation

- No mitigation required at the northern limits of CHS 8.
- archaeologist. Licensed archaeological monitoring should be undertaken by an experienced underwater

CHS 09 Revetment wall on west bank

state of preservation with outward bulging and a scour of up to 0.4m noted beneath the wall. constructed of uncoursed rubble sandstone (Plate 29). It has a max. height of 1.5m. It is in a poor Three sections of the revetment wall on the western bank survive within the study area. The wall is

Impact

No impact.

Mitigation

No mitigation required.

CHS 10 Tailrace

the townland boundary between Ballincrossig and Poulacurry North. At the time of the survey there E572744 N575380. The mill race which is indicated on the 1st and 2nd edition OS Map also marks A tailrace issuing from a flour/corn mill at Spring Hill is visible on the western riverbank at ITM

earthen banks and no stone walling was recorded. was no water flowing from the mill race. The race is c.4m wide. Its sides consist of overgrown

Impact

The proposed construction works including the embankment and relief wall COS_L01 on the west Spring Hill. bank of the Glashaboy may affect potential discrete subsurface remains or features of the tailrace at

Mitigation

archaeologist. Licensed archaeological monitoring should be undertaken by an experienced underwater

CHS 11 Weir & Headrace for Riverstown Mill

substantial 3.0m high revetment wall (Plate 30) that runs in a NW-SE direction into the mill race, quantity of tree cuttings have been deposited on top of the structure in recent times. the Riverstown Flour Mill to the SE. The upstream approach section of the headrace consists of a Glashaboy (Fig.9). Abutting the east terminus of the Weir is the remains of a headrace that fed into while the river sweeps around to the southwest. The millrace itself was not accessible as a large An east-west Weir is denoted on the 1st edition OS map of 1842 extending across a bend of the

the weir indicated on the 1st edition OS map. is not denoted on the 2nd Edition OS map and it is likely that this feature is possibly the remains of recorded immediately south of the Headrace (Fig. & Plates 31 & 32). The feature, possibly a river slopes from a maximum height of 1.0 m beside the race down to the level of the riverbed. The Weir access slip or revetment, projects from the eastern bank into the river in a WSW- ENE direction and A coherent section of intra-riverine feature comprising well set and matched stones set on edge was

Impacts

- existing river revetment wall to the 19th century Headrace / Sluice. The proposed flood defence wall (C01_L06) may impact on the approach section of the
- remains of the pre-famine Weir. It is also possible that the proposed construction works may impact on the potential relict

Mitigation

- Mitigation by avoidance. Where possible impact by the construction works on the existing potential negative aesthetic visual impacts. proposed construction works should be faced with sympathetic material to minimise approach Headrace / Sluice wall and pre-famine Weir should be avoided. If unavoidable the
- Licensed archaeological monitoring should be undertaken by an experienced underwater archaeologist.

CHS 12 Riverstown Bridge

recorded structure (RPS No. 2096415). It is a hump-backed road bridge built of rubble sandstone. display arch rings of undecorated voussoirs. The westernmost and smallest arch is blocked up and contains a cast iron outfall pipe. All five arches The bridge has five arches; measuring from west-to-east 2.50m, 3.70 m, 4.25 m, 4.25m, and 3.70m. Riverstown Bridge is a recorded archaeological monument (RMP No. CO064-111) and a protected

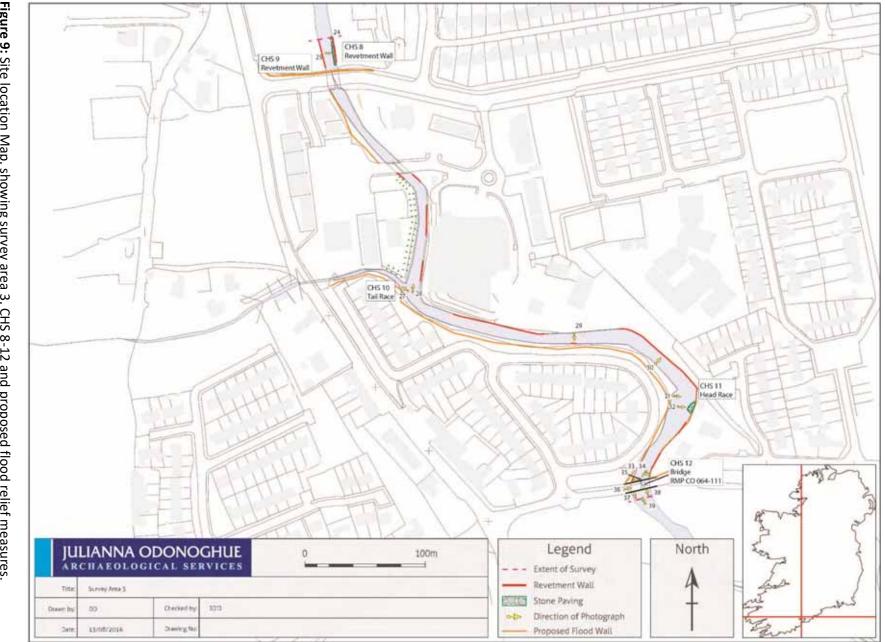
footpath has damaged the bridge and conceals much of the northern elevation. The parapet has rubble-stone pointed cutwaters projecting outwards by 0.9m, and 1.15m in height. The cutwaters No foundations were visible at the base of the piers. The piers are protected on both elevations by vertically set copping. are damaged as a result of erosion and vegetation. The modern concrete extension to facilitate a

Impacts

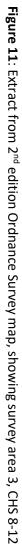
- proximity to the upstream side of Riverstown Bridge. impact on the existing sections of the river revetment wall on both sides of the river in close The proposed flood defence wall and their drainage outfalls (C01-L05 & C01_L06) may
- . Bridge. The proposed flood defence wall may impact on the eastern upstream limits of Riverstown
- the western side of the bridge. and proposed pumping station C01_P01) also extend into the zone of notification (ZON) on The proposed regrading works (C01_R02); and proposed concrete reinforced wall (C01_L07);
- the bridge (C01_C03 & C01_C04) may impact on the recorded structure The proposed removal of the existing build-up of silt and vegetation from under the arch of

Mitigation

- Licensed archaeological monitoring should be undertaken by an experienced underwater
- Bridge a recorded monument and a recorded protected structure, including: - C0_L06; C01undertaken with regard to all proposed works within the ZON associated with Riverstown Mitigation by licensed archaeological testing in advance of construction should be archaeologist with regard to the proposed construction works C01-L05 & C01_L06 L07; C01_P01; C01_R02; C01_C03 & C01_C04.
- archaeologically in advance of construction works The recorded protected structure Riverstown Bridge should be fully surveyed







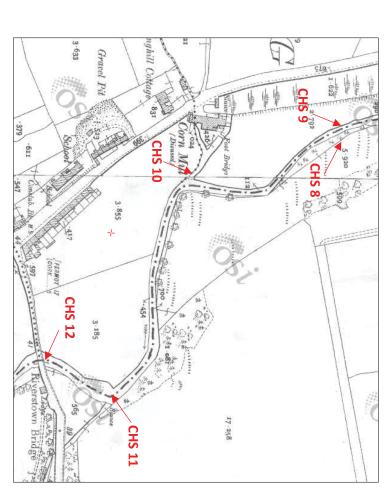
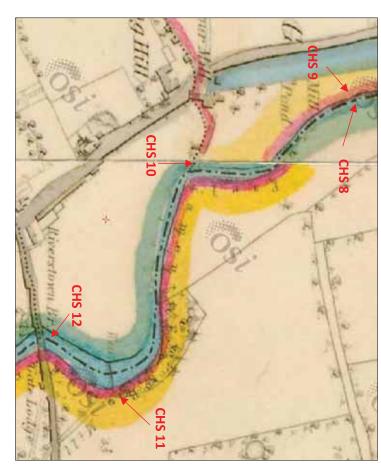


Figure 10: Extract from 1st edition Ordnance Survey map, showing survey area 3, CHS 8-12



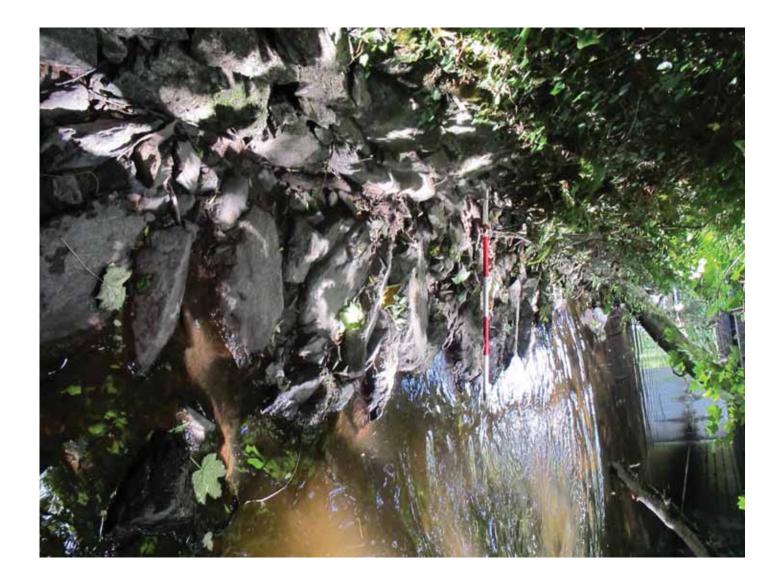


Plate 24: View of CHS 08, revetment wall taken from north.



Plate 25: View of CHS 08, revetment wall taken from west.



Plate 26: View of CHS 09, revetment wall taken from east.



Plate 27: View of CHS 10, tailrace, Spring Hill Mill, taken southeast.



Plate 28: View of Glashaboy River, looking upstream, taken from CHS10

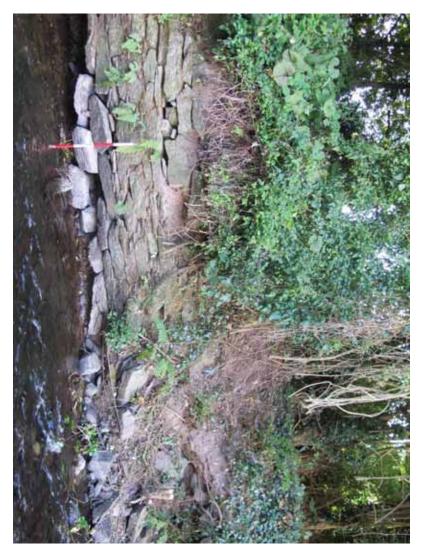


Plate 29: View of CHS 09, taken from north.



Plate 30: View of revetment wall approaching headrace CHS 11.

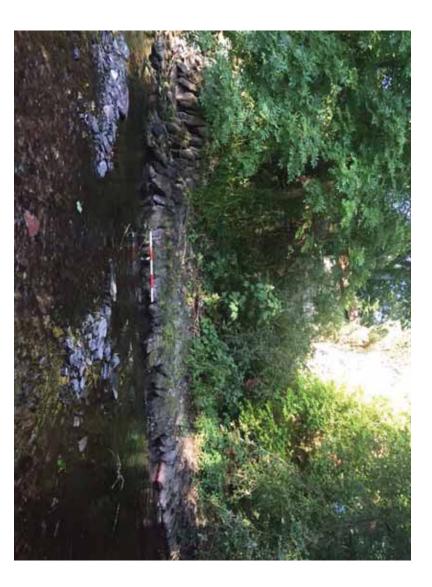


Plate 31: View of headrace CHS 11, taken from west.



Plate 32: View of stone feature, possible remains of weir, taken from west



Plate 33: View of CHS 12, bridge taken from northeast



embankment to northeast.. Plate 34: View of CHS 12, bridge with pedestrian bridge extension and recent earthen



Plate 35: View of CHS 12, bridge, blocked up arch on northwest.

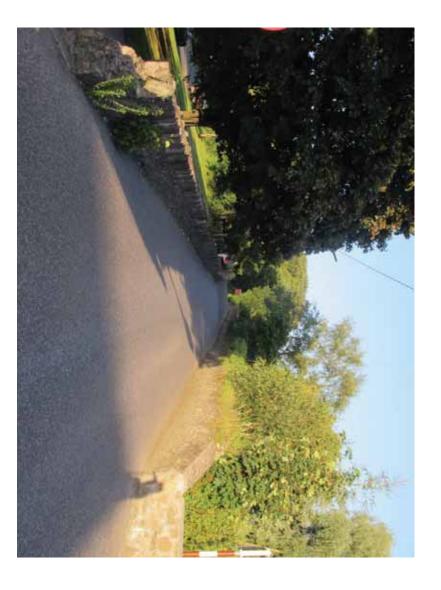


Plate 36: View of CHS 12, bridge, carriageway.



Plate 37: View of CHS 12, bridge, western side of downstream elevation.



Plate 38: View of CHS 12, bridge, cutwater on downstream elevation.

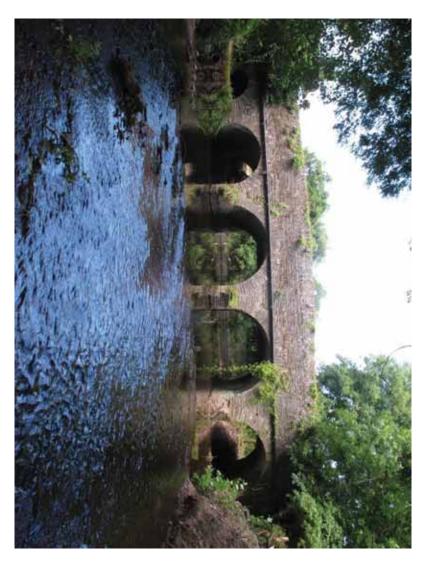


Plate 39: View of CHS 12, bridge, downstream elevation.

Survey Area 4, St. Patrick's Mill ITM Co-ordinates: E572838, N574634 Townland: Poulacurry South Figures: 12-14 Plates: 40-43

pool of the marsh). The mill is denoted on the 1st and 2nd edition OS maps (fig 13-14). Survey Area 4 is located at St. Patrick's Mill in the townland of Poulacurry South (Poll an Churraigh-

that St. Patrick's beetling-mills was operated by Messrs. Thorley & Son and employed over one recorded protected structure (RPS), Reg. No. 20907504 constructed c. 1795-1800. encompassing it on the National Monuments Service on-line database. The mill complex is also a hundred people. The site is a recorded monument (CO075-001), however there is no ZON The mill was established in the 18th century by a Cork merchant named Sadlier. In 1837 Lewis notes

CHS 13 Tailrace of St. Patrick's Mill

itself was outside the remit of this survey. Two separate races exit the mill and converge into a single mill complex was not investigated for Health & Safety considerations. Furthermore, the building The Tailrace was inspected but the enclosed section of the race running underground and into the into the Glashaboy River. The eastern race issues from the mill through a 2.5m wide semi-circular race which flows in a southerly direction for c.100m before crossing under the R639 roadway and

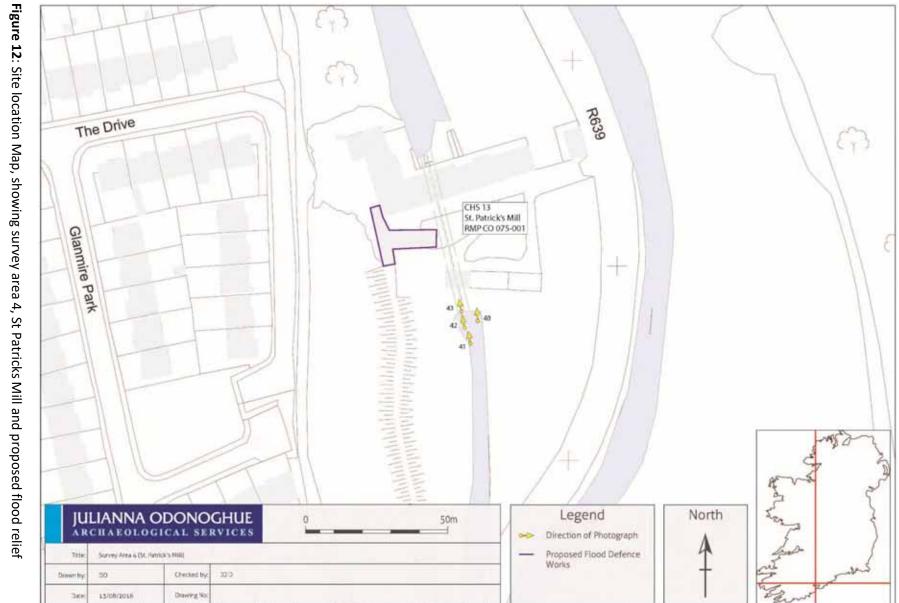
propping have been inserted at the exit, and the eastern channel of the twin culvert has collapsed. capped with large stone lintels (plates 42 & 43). Modern repairs comprising concrete support spanning the second race (Plate 41). This is a twin culvert constructed of random rubble stone arch of twenty-six voussoirs (Plate 40). To the west of this is a crudely constructed wooden bridge

Impacts

There will be no impact by the proposed works C03_L01 on the Tailrace CHS 13.

Mitigation

No mitigation required.



measures.

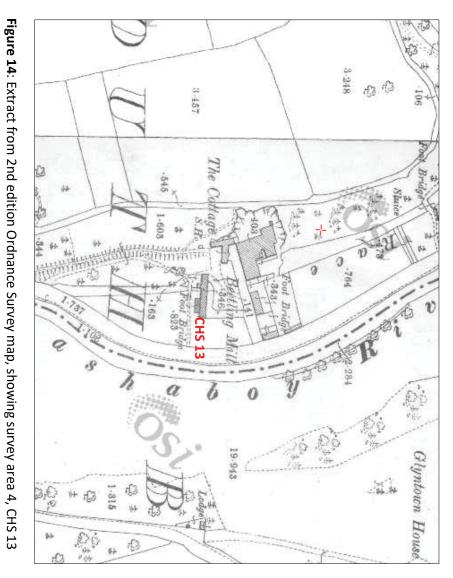


Figure 13: Extract from 1st edition Ordnance Survey map, showing survey area 4, CHS 13

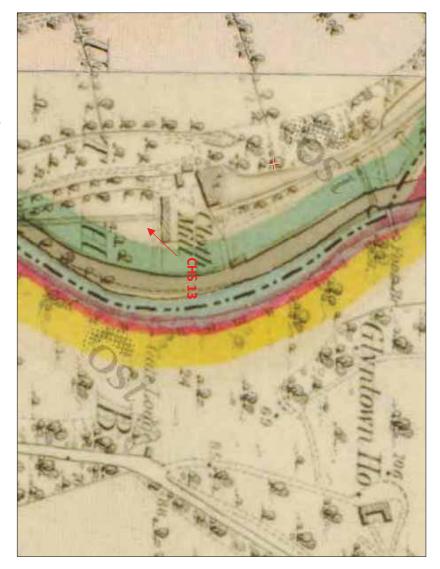




Plate 40: View of CHS 13, from south.



Plate 41: View of CHS 13, from south.



Plate 42: View of CHS 13, from south.



Plate 43: View of CHS 13, from south.

Survey Area 5, The Grove

ITM Co-ordinates: -E572759, N574321 to E572735, N574278 Townland: Poulacurry South Figures: 16-17 Plates: 44

that denoted on the 1st Edition OS map of 1842 crossing the Glashaboy River in a NE-SW direction monument (RMP CO075-048) and a recorded protected structure (RPS 00483). Glanmire Bridge. The three-arch bridge which was built between 1770-1810 is a recorded and connected to a headrace at its southern end that extended underneath the eastern side of Survey Area 5 comprises of a short stretch of the Glashaboy River annotated The Grove on the Works Overview Map provided by Lane Purcell Archaeology. It is located downstream of a Mill Weir

the flow to the mill complex that is also denoted on the 2nd Edition map and annotated as The headrace had also been widened and re-aligned. From beneath Glanmire Bridge a Sluice controlled Ballinglanna. By the end of the 19th century the weir had been re-built in a NW-SE direction while the flow and serviced the Fountains (CO075-002001), a Flour Mill, situated 290m to the south in The Mill Weir was outside the scope of this survey. It is situated at the maximum point of the tidal of this stretch of river and was not included in this survey. Fountains Flour Mill (Disused), (See Survey Area 6 below). The headrace for the mill runs to the east

CHS 14 Revetment wall on east bank

northern limits of Survey Area 5 (Fig.15). It is constructed of generally small uncoursed rubble The intra-riverine survey noted a revetment wall manifest on the east bank of the river at the but has collapsed towards the southern limits height of 1.3m and appears to have originally extended along the entire length of the survey area sandstone that vary in size between 0.2m x 0.2m to 0.3m x 0.4. The revetment wall survives to a

Impacts

There will be no impact by the proposed works on the revetment wall CHS 14.

Mitigation

No mitigation required

CHS 15 Revetment wall on west bank

visible along this section of the revetment wall which is adjacent to the R639 roadway. Plate 44). It is denoted on all editions of the OS maps. Concrete repairs and underpinning works are action and erosion. The gable end of a relict extant structure abuts the western riverbank (Fig. 15, limit of Survey Area 5 in each direction. The wall is collapsed in sections and damaged by tree root A second 2.5m high random rubble stone revetment wall with mortar bonding extends beyond the

Impact

revetment wall feature CHS 15. The proposed works C01_L08 and possibly the pumping station C01-P02 may impact on the

Mitigation

archaeologist with regard to the proposed construction works CO1_LO8 & CO1-PO2. Licensed archaeological monitoring should be undertaken by an experienced underwater

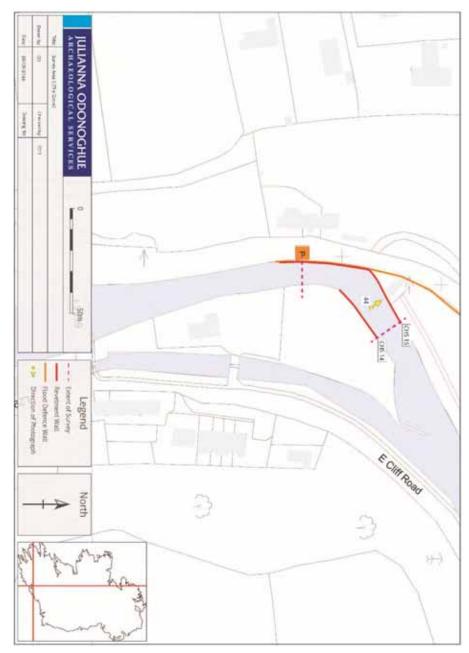


Figure 15: Site location Map, showing survey area 5; The Grove, and proposed flood relief measures.

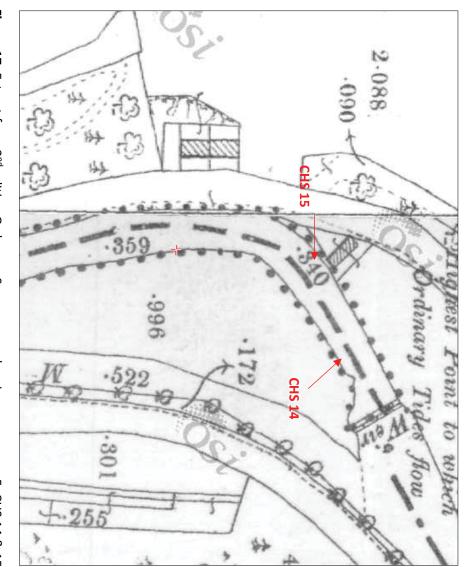


Figure 16: Extract from 1st edition Ordnance Survey map, showing survey area 5, CHS 14 & 15

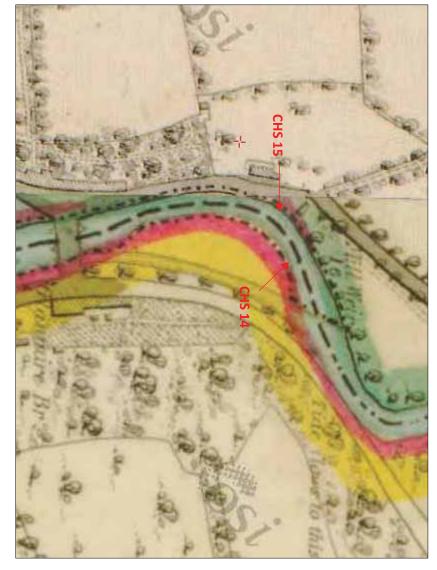


Figure 17: Extract from 2nd edition Ordnance Survey map, showing survey area 5, CHS 14 & 15

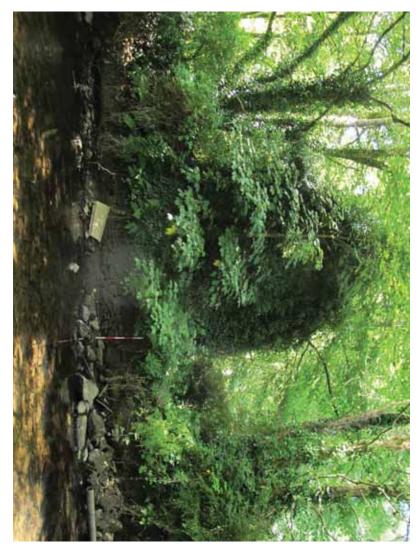


Plate 44: View of CHS 15, revetment wall, taken from southeast.

Survey Area 6, The Fountains (CO075-002001) ITM Co-ordinates: -E572776, N574086 to E572721, N573970 Townland: Ballinglanna Figures: 18-20 Plates: 44

installed a steam engine and produced 25,000 barrels of flour per annum. The mill passed to the founded in the mid-18th century by Samuel Pike. In the 1830's it was owned by the Shaw family who disused flour mill complex which is a recorded monument (CO075-002001). The NIAH have also a Survey area 6 is located in the townland of Ballinglanna on the Glashaboy River adjacent to a large storey structure (www.archaeology.ie). The mill building was originally 5-storeys high but after the fire in 1964 it was rebuilt as a single Punch family around 1920 and became disused following a fire in 1964 (www.askaboutireland.ie). record entry for the protected structure, Reg. No. 20907510, who note that the flour bolting mill was

boat house on the river bank at the exit point of the tail race. A lime-kiln (CO075-002002) is located bank of the river. The 2nd Edition OS Map illustrates an expanded mill complex and the addition of a The Fountains is denoted on the 1st Edition OS Map of 1842 as a large flour mill complex on the east to the south of the mill site. In 1922 George Punch established a shoe-polish factory in the building.

A shoal was noted on the riverbed directly opposite the mill building measuring, 20m NE-SW in length by 5.9m in width. The main channel flows to the east of the shoal.

CHS 16 Revetment wall on the west bank

mortar has been largely washed out. constructed of large stones, the basal courses of which measure on average 0.5m x 0.3m. The 45). It a roughly coursed sandstone wall, measuring up to 2.0m in height (Plate 45). The wall is A revetment wall extends along the western bank for the majority of Survey Area 6 (Fig. 18, Plate

Impacts

There will be no impact by the proposed works on the revetment wall CHS 16.

Mitigation

No mitigation required.

CHS 17 Revetment wall on east bank

constructed of dressed limestone blocks measuring from 0.30m x 0.30m up to 1m x 0.6m. Mortar collapsed bank material. The wall is a substantial structure measuring up to 3.0m in height. It is between 3.8 and 4.5m in width have been repaired with concrete. wall having completely collapsed as a result (plate 47 & 48). Three sections of the wall, measuring bonding is visible in places. Tree root damage is particularly noticeable resulting in portions of the northern limits of this wall. It is possible that the wall continues further upstream concealed behind 46). Due to an accumulation of sediment and dense vegetation it was not possible to examine the A revetment wall is visible on the east bank between the mill building and the tail race (Fig. 18, Plate

Impacts

There will be no impact by the proposed works on the revetment wall CHS 17

Mitigation

No mitigation required.

CHS 18 Tailrace east bank

some are dressed limestone (Plate 50). replacement of an earlier 19th century slip. A Boat House shown on the 2nd Edition OS map, may have The tailrace for the Fountains Mill discharges into the river on a bend at the end of revetment wall the race has collapsed and now consists of mud with a large quantity of tumbled stone of which served the mill and indeed a nearby recorded Limekiln, CO075-002002. The south-eastern bank of CHS 17 (plate 49). The original exit point for the tailrace has been modified. A concrete slip supports /abuts the end of the revetment wall. The current concrete slip structure is most likely a

Impacts

There will be no impact by the proposed works on the revetment wall CHS 17.

Mitigation

No mitigation required

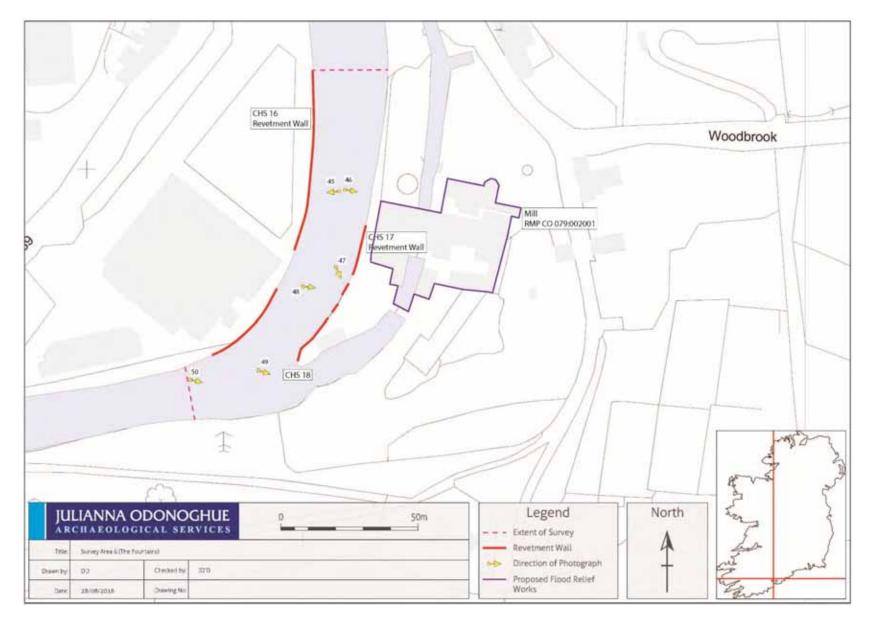


Figure 18: Site location Map, showing survey area 6, and proposed flood relief measures.

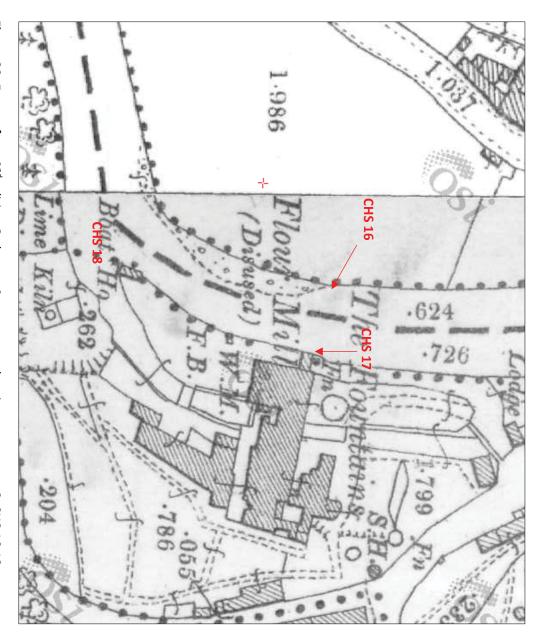
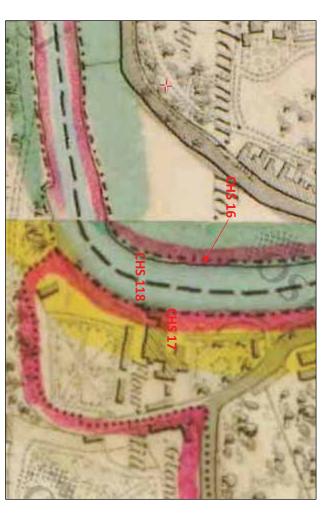


Figure 19: Extract from 1st edition Ordnance Survey map, showing survey area 6, CHS 16-18



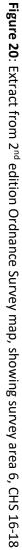




Plate 45: View of CHS 16, revetment wall, taken from east.



Plate 46: View of CHS 17, revetment wall, taken from west.

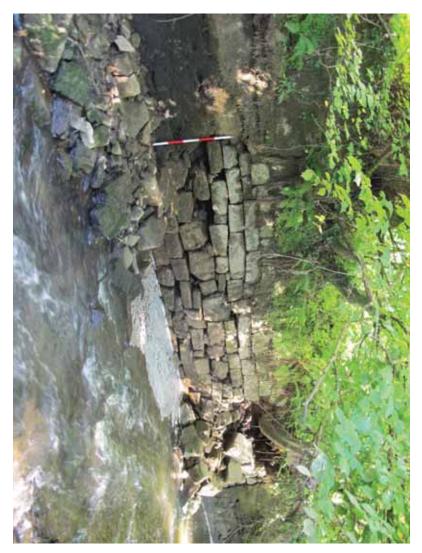


Plate 47: View of CHS 17, revetment wall, taken from northwest.



Plate 48: View of CHS 17, revetment wall, taken from west.



Plate 49: View of CHS 18, tailrace, taken from west.

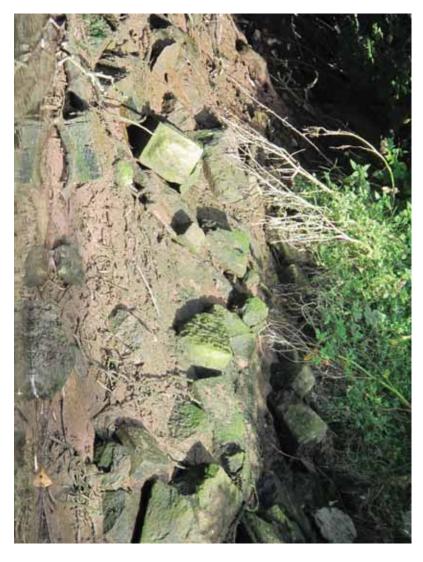


Plate 50: View of CHS 18, tailrace taken from southwest.

Survey Area

ITM Co-ordinates: E572688, N573965 to E572379, N573667 Townland: Poulacurry South and Lotamore Figures: 21-23 Plates: 51-54

Survey Area 7 comprises a narrow east-west section of the Glashaboy River that opens substantially Glanmire Village. into a large expansive river bend forming the northernmost limits of the Glashaboy Estuary beside

CHS 19 Revetment wall on eastern bank

northern end and up to 4.0m in height in the southern end. Mature woodland extends along the CHS 19 comprises a revetment wall extending along the east bank (Figure 21, Plate 52). The wall is eastern bank. stones forming the upper courses. The revetment wall survives to a reduced height of I.3m at the constructed of roughly coursed stone with the larger stones (0.5m x 0.30m) at the base and smaller

Impacts

There will be no impact by the proposed works on the revetment wall CHS 17.

Mitigation

No mitigation required.

CHS 20 Revetment wall on west bank.

beneath estuarine mud / silts (Plate 51). The west side of riverbed is also strewn by large quantities original stone revetment wall survives to a height of 1.8m. However, the basal courses are concealed bank (Figure 21,). Some sections have been replaced with boulders and concrete walling. The of debris and branches or trees deposited on the mud, largely by tidal action. The heavily vegetated revetment wall on the west bank survives intermittently exposing the earthen

strip of ground that may reflect the original quay area. However, it is not annotated. Today there is a end of Barry's Terrace. These features may possibly reflect the remains of an earlier quay but only No. 20860015) built c. 1820 (www.askaboutireland.ie). The 1st Edition OS map shows a linear narrow to this quay which was also referred to as the Dock and the Arch near the old Post Office (NIAH Reg. speculatively. riverbed. Furthermore, a short section of stone wall, 1.6m in height is also visible at the northern narrow strip of grassy verge, 3.0m wide between Barry's Terrace and the river c. 5.0m above the formal quay wall were recorded here. Apparently, vessels up to 40-tons burden transported goods Locally this section of the western riverbank is known as the Sand Quay. However, no features of a

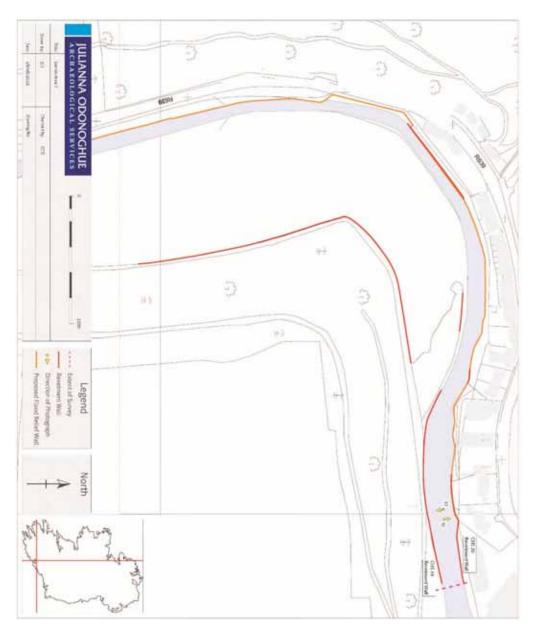
to sail up there' (2nd report to the commissioners 1845). The Mayor also reported to the anything. Commissioners that landed proprietors, from whom the grand jury was selected, neglected to do there was still very important traffic in sand carried on in that country, and vessels of 100 tons used neglected state'. It was also noted that 'the Glanmire river would be very useful, if properly cleared; It 1845 it was reported to the commissioners of that the Glanmire River was 'in a shockingly

Impacts

- ٠ revetment wall CHS20 (Fig). The proposed flood defence wall C01-L09 may impact on the existing sections of the river
- The proposed flood defence wall C01-L09 may impact on the potential subsurface remains of the Sand Quay that existed in the vicinity of Barry's Terrace.

Mitigation

may be required based on the results of this archaeological testing. Licensed archaeological testing should be undertaken at Sand Quay. Further mitigation archaeologist with regard to the proposed construction works C01_L09. Licensed archaeological monitoring should be undertaken by an experienced underwater



measures. Figure 21 Site location Map, showing survey area 7, CHS 19, 20 &21, and proposed flood relief

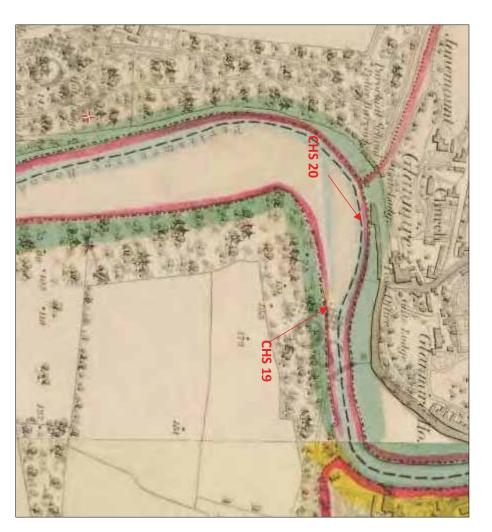


Figure 22: Extract from 1st edition Ordnance Survey map, showing survey area 7, CHS 19-21

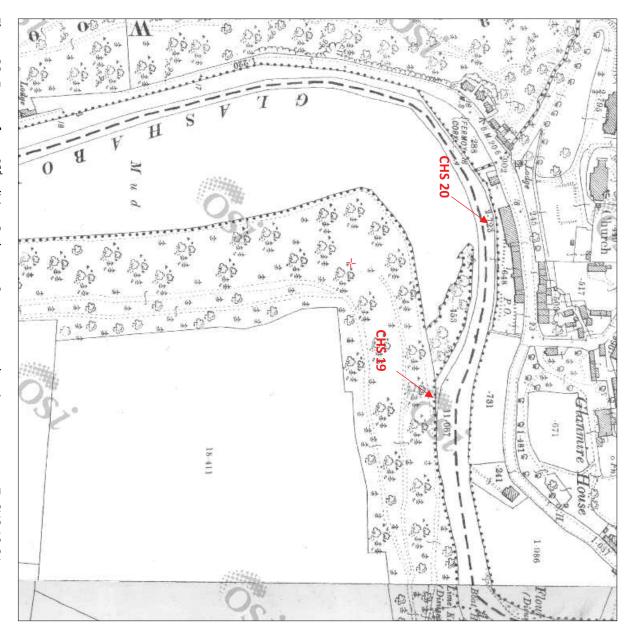


Figure 23: Extract from 2nd edition Ordnance Survey map, showing survey area 7, CHS 19-21



Plate 51: View of CHS 20, revetment wall, taken from south.



Plate 52: View of CHS 19, revetment wall, taken from north.



Plate 53: View of CHS 20 , Sand Quay.



Plate 54: View of Glashaboy Estuary.

Metal Detection Survey

debris were recorded. However, nothing of archaeological interest was found All sections of the survey areas were subjected to metal detection also. Copious pieces of modern

7. Wider Impacts

the Bleach Hill Stream and Glashaboy River (C01-5815), may impact on existing cultural features as The proposed channel maintenance that is to extend for over a distance of 4759m from the almost 5km extent. identified in this survey as well as potential unknown subsurface features and artefacts along its downstream end of the proposed defence wall at Barry's Terrace (C01-1056) to the confluence of

8. Mitigation

archaeologist with regard to the proposed maintenance work. Licensed archaeological monitoring should be undertaken by an experienced underwater

9. References

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Appendix 13.4

Glashaboy River Site Inspection -Plates 1-54

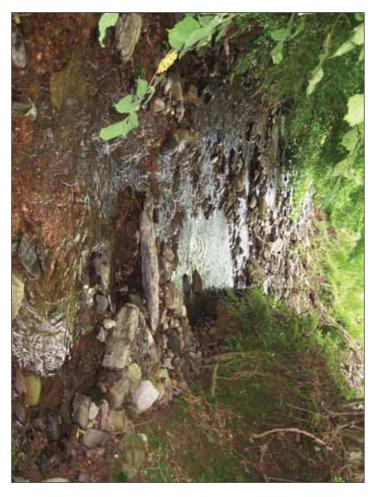


Plate 1: Bleach Hill Stream, looking southwest

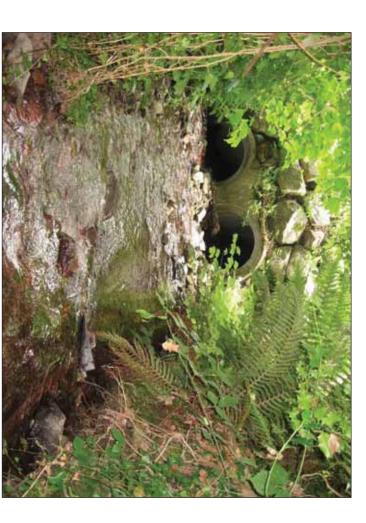


Plate 2: Bleach Hill Stream, entering culvert under road, looking southwest



Plate 3: Sallybrook Mill, south elevation



Plate 4: Sallybrook House, east elevation



Plate 5: The Glashaboy River to the west of Grandon's Garage with rock armour visible upstream, looking north



Plate 6: Mill race 3 opening in Grandon's Garage showing remains of sluice gate,

before entering culvert, looking southeast



Plate 7: Mill race 3 in Grandon's Garage property, emerging from culvert, looking northwwest

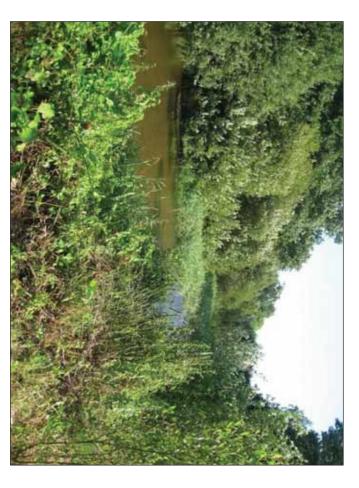


Plate 8: Mill race 3 on the southern side of R639, north of Glansillagh Mill (CO063-094)

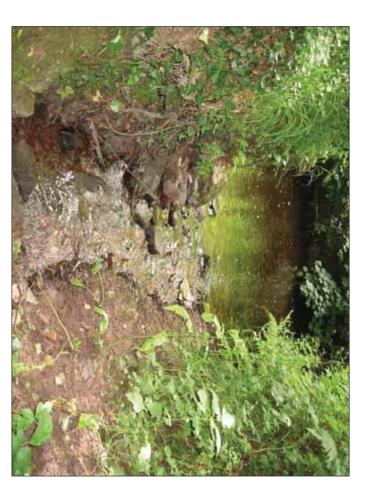


Plate 9: Unnamed channel around Sallybrook House entering the Glashaboy River, looking

west

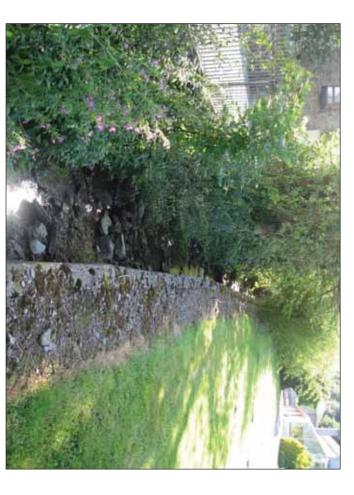


Plate 10: Cois na Gleann Stream, looking west

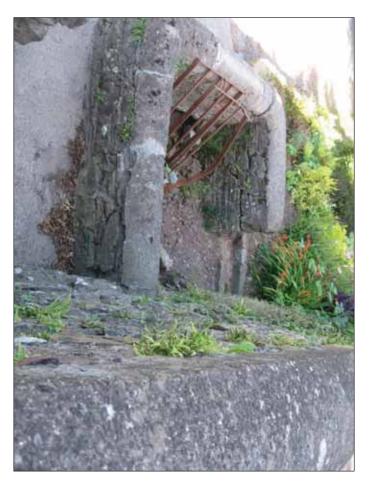


Plate 11: Stone lined well around Cois na Gleann Stream, looking south



Plate 12: Cois na Gleann Stream along the northern end of pasture field before converging with Glashaboy, looking east



Plate 13: Field adjoining R639



Plate 14: Wall along western side of field



Plate 15: Hazelwood Avenue Bridge and adjoining green area where relief channel will be constructed, looking north

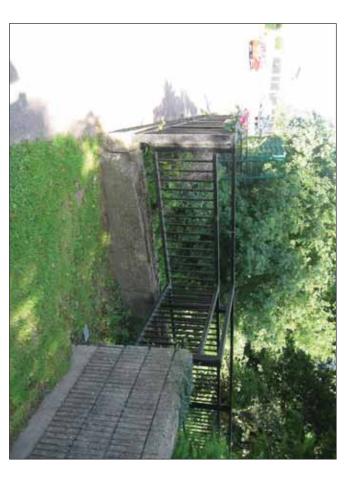


Plate 16: Overgrown area to east of bridge where relief channel will be constructed, looking north

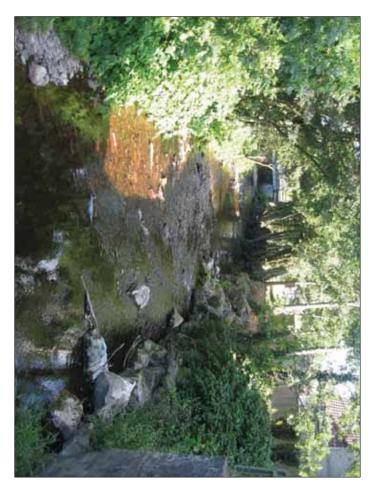


Plate 17: View downstream from Hazelwood Avenue bridge

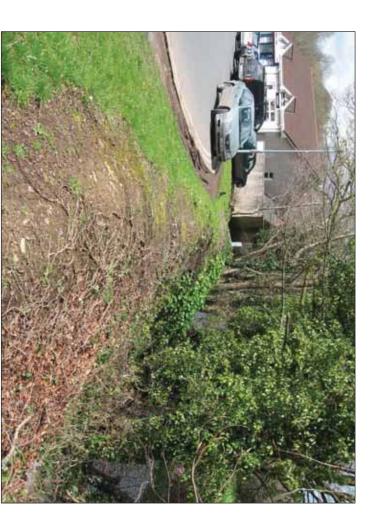


Plate 18: View of earthen bank in Glanmire Shopping Centre, looking north



Plate 19: View of bridge in Glanmire Shopping Centre, looking south



Plate 20: View of gabions against eastern river bank at supervalu building, looking northeast



Plate 21: View of R639 where Springmount Stream is culverted. The stream re-emerges behind the hedgerow parallel to the road within the trees

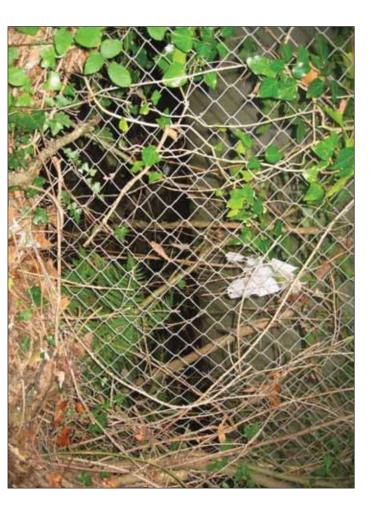


Plate 22: Open channel of Springmount Stream north of Meadowbrook, looking north



Plate 23: Springmount Stream at convergence with Glashaboy River, looking northwest

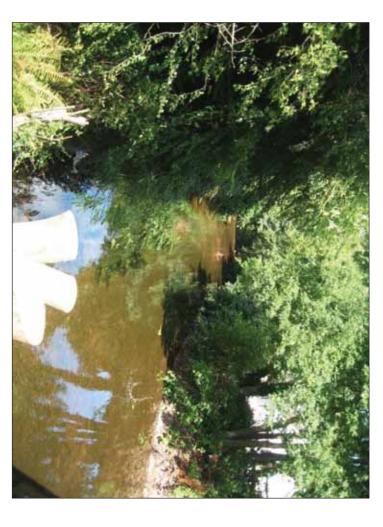


Plate 24: View upriver from Riverstown Bridge, looking north

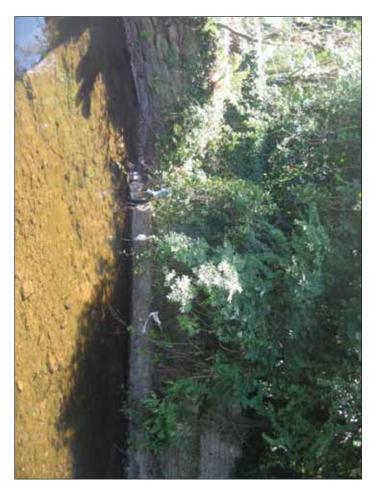


Plate 25: Western bank approaching Riverstown Bridge



Plate 26: Wall parallel to river in Meadowbrook

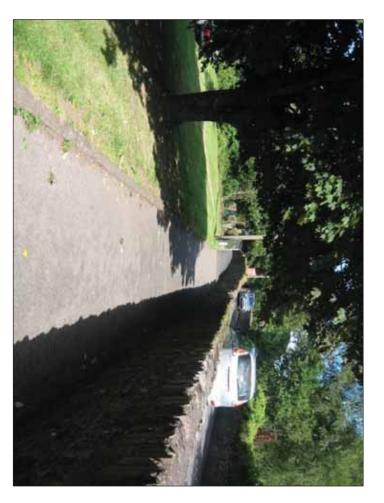


Plate 27: Path and green area to west of Riverstown Bridge

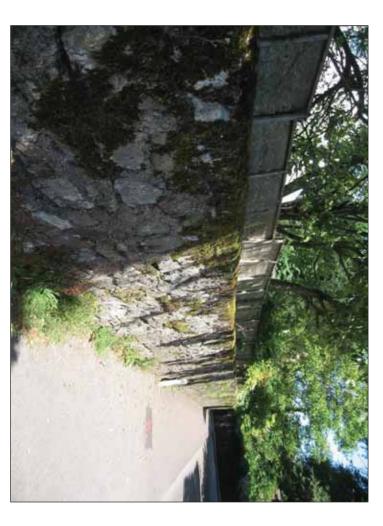


Plate 28: Wall to east of Riverstown Bridge



Plate 29: Western elevation of Glyntown Bridge at the confluence of the Butlerstown and Glashboy



Plate 30: Southern elevation of unnamed single arch road bridge over Butlerstown River

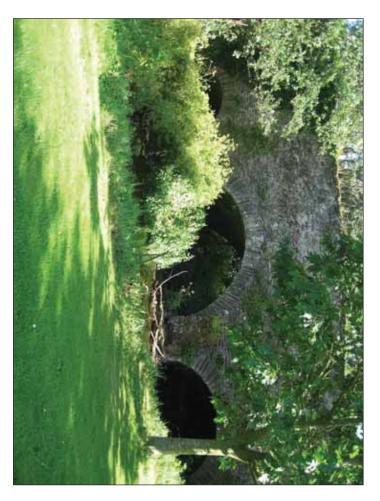


Plate 31: Northern elevation of Copperalley Bridge in grounds of Riverstown House

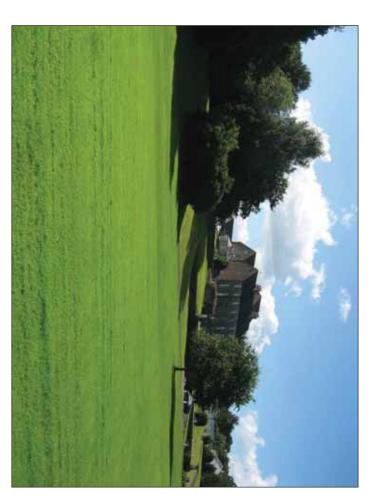


Plate 32: Lawn to the east of Riverstown House where embankment will be constructed and Riverstown House, looking northwest

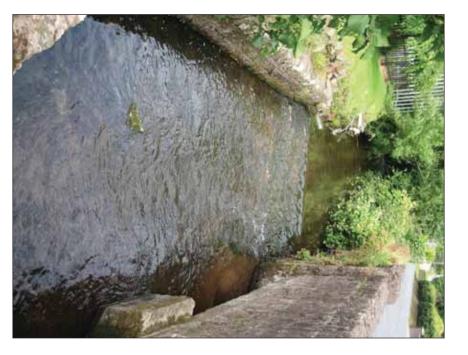


Plate 33: Glenmore Stream eastern section with Brooklodge Grove Road to south (right). Opening to the rectangular culverted channels are visible at bottom right, looking east



Plate 34: Eastern culvert opening, north-facing elevation



Plate 35: Eastern culvert opening, showing dry south-facing elevation

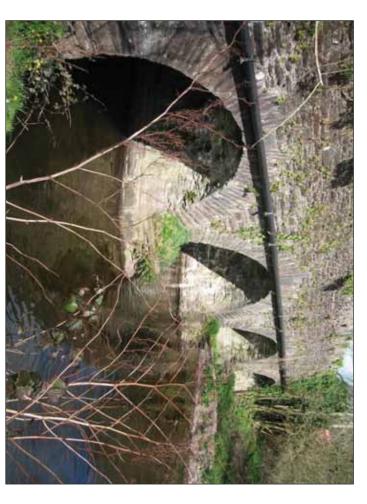


Plate 36: Riverstown Bridge, southern elevation



Plate 37: The Glashaboy in John O'Callaghan Park, looking east

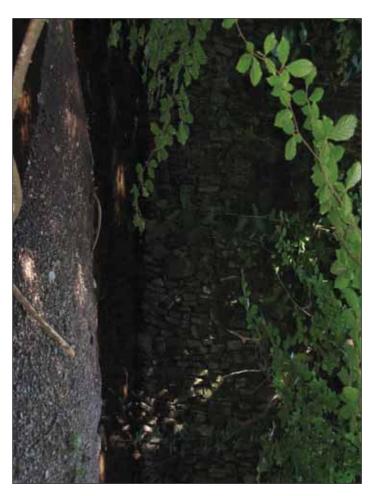


Plate 38: Stone faced bank, looking east



Plate 39: Confluence of the Butlerstown and Glashaboy, looking east



Plate 40: Weir at opening of St Patrick's Mill mill race, looking south



Plate 41: River Glashaboy bedside the R639 road, looking north

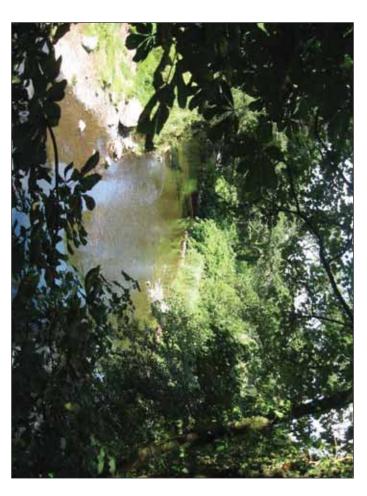


Plate 42: River Glashaboy from the local road running northwest to Riverstown, looking north

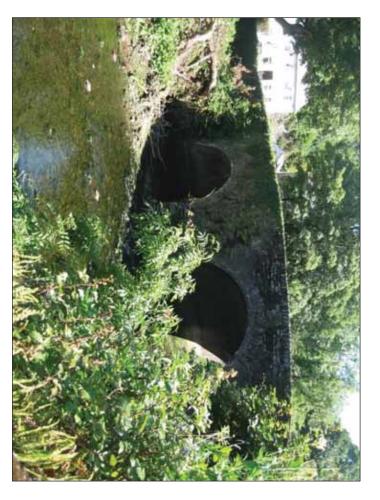


Plate 43: Glanmire Bridge, northern elevation

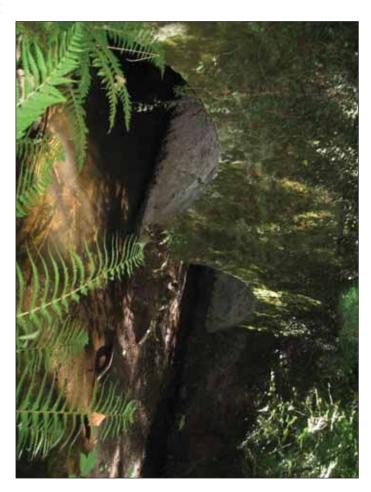


Plate 44: Western elevation of St Patricks mill race culvert emerging under the R639 road

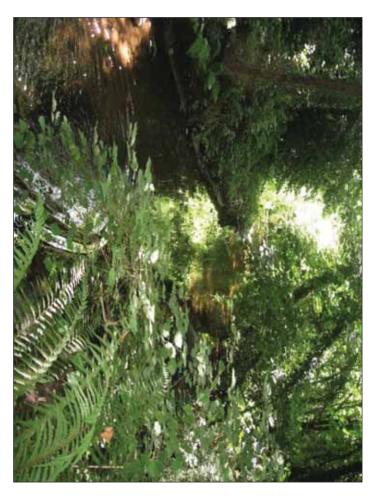


Plate 45: St Patricks mill race downstream of R639 culvert, looking southwest

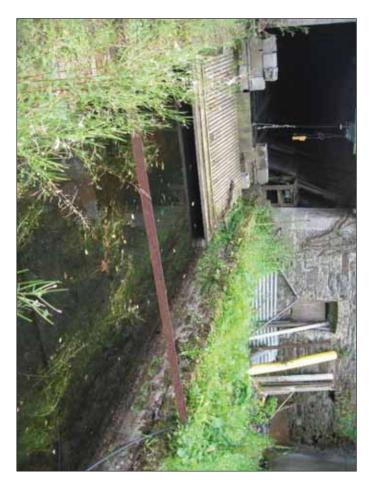


Plate 46: Mill race in St Patrick's Mill, looking south



Plate 47: St Patrick's Mill complex and mill house, looking west



Plate 48: The Fountains mill race, looking south

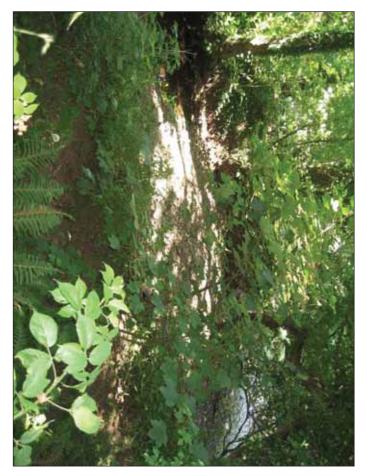


Plate 49: Low bank of stone restricting flow into The Fountains mill race



Plate 50: The Fountains northern elevation with mill building visible to the right (after Arup)



Plate 51: The Glashaboy to the rear of properties in Glanmire village, looking south



Plate 52: Glashaboy River at low tide behind properties in Glanmire village, looking northeast



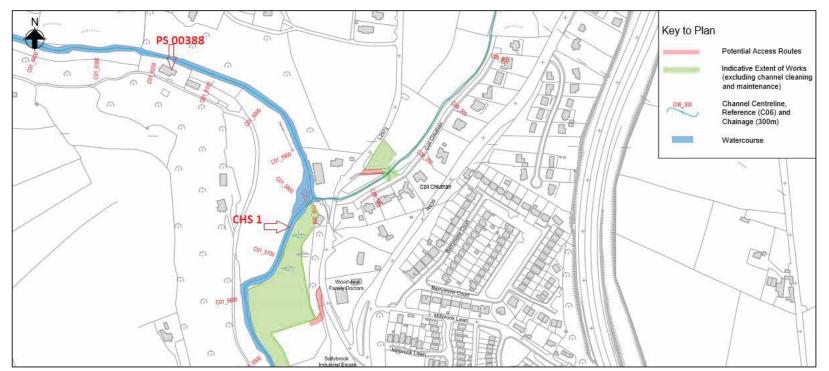
Plate 53: Wall along R639 with river to right, looking north



Plate 54: Ruinous structure (CHS 23) on the western bank of the Glashaboy, a short distance upriver from Glanmire Bridge

Appendix 13.5

CHS, RMP sites and PS along the proposed Drainage Scheme



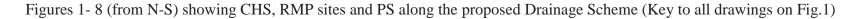


Figure 1: Northern end of the drainage scheme, depicting CHS 1 (OSI: Licence Number 2017/06/CCMA/CorkCountyCouncil)

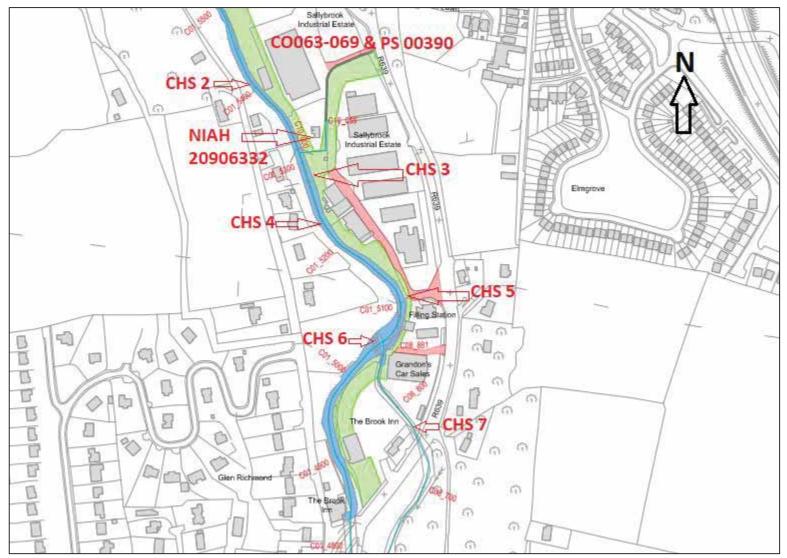


Figure 2: CHS 2-7 (OSI: Licence Number 2017/06/CCMA/CorkCountyCouncil)

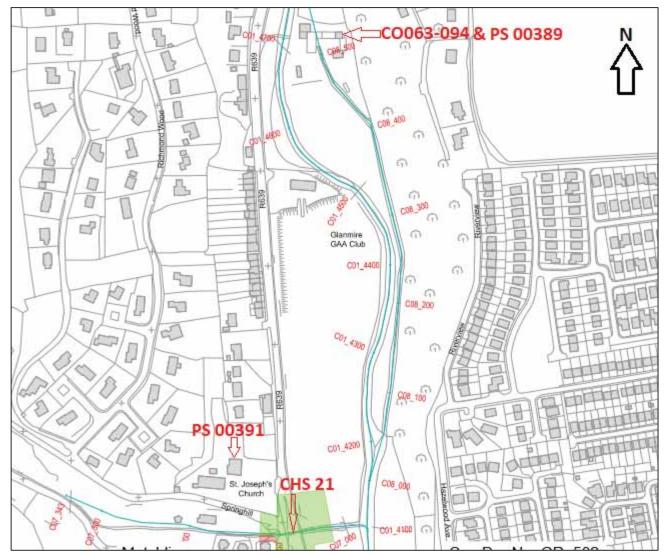


Figure 3: CHS 21 (OSI: Licence Number 2017/06/CCMA/CorkCountyCouncil)

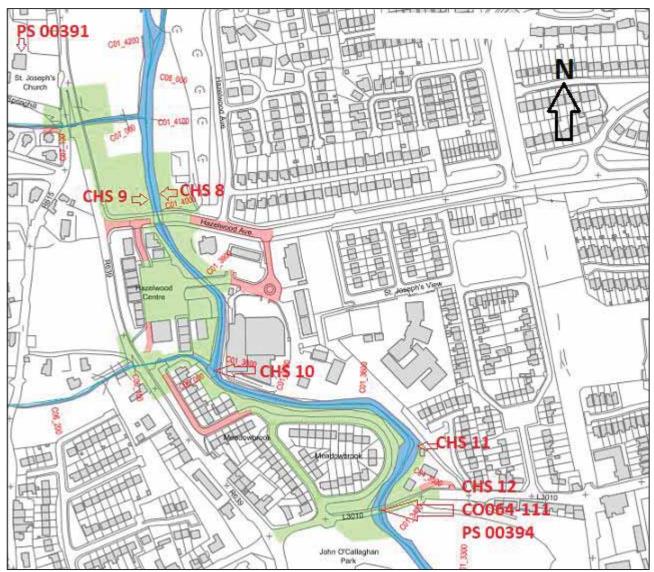


Figure 4: CHS 8-12 (OSI: Licence Number 2017/06/CCMA/CorkCountyCouncil)

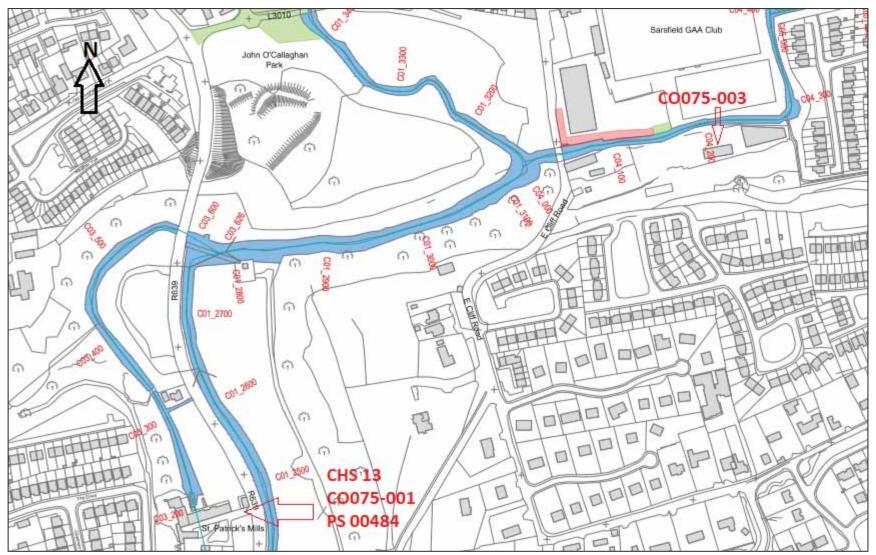


Figure 5: CHS 13 (OSI: Licence Number 2017/06/CCMA/CorkCountyCouncil)

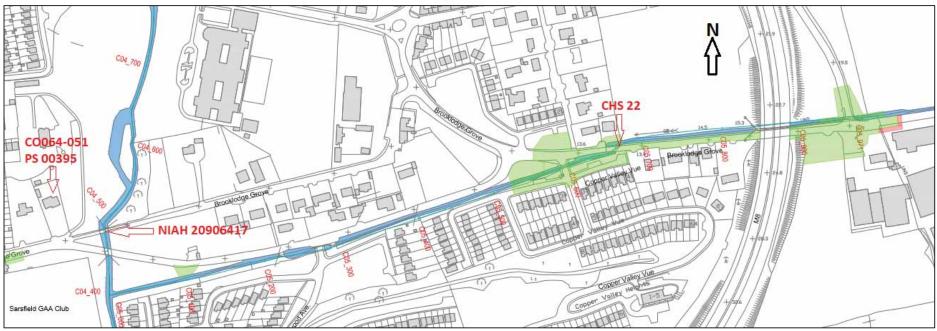


Figure 6: CHS 22 (OSI: Licence Number 2017/06/CCMA/CorkCountyCouncil)

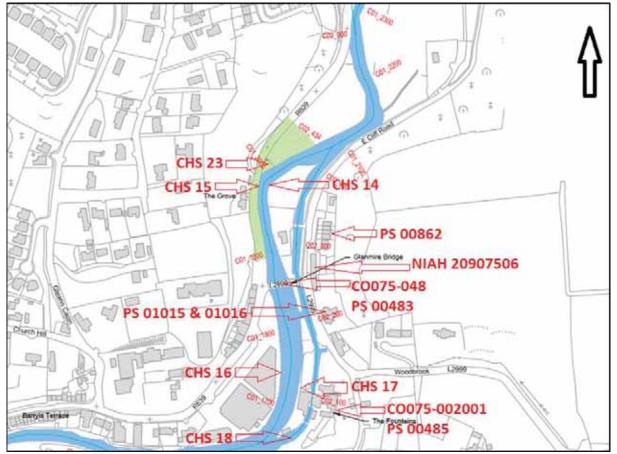


Figure 7: CHS 15-14-18 (OSI: Licence Number 2017/06/CCMA/CorkCountyCouncil)

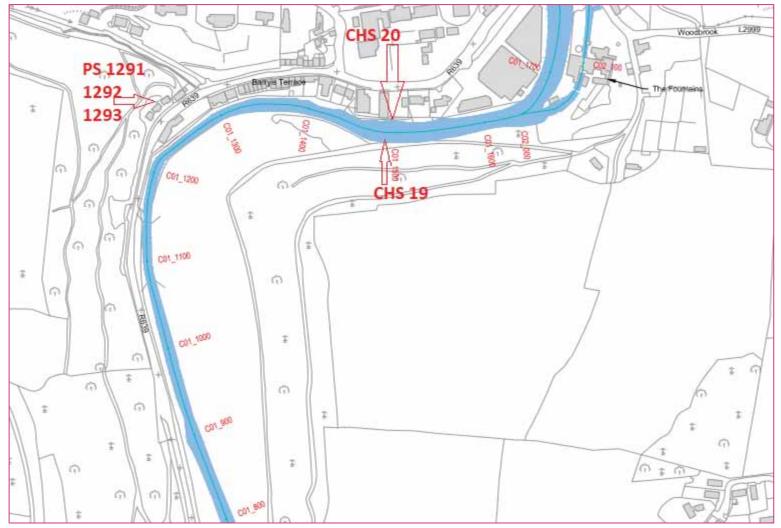


Figure 8: CHS 19 and 20 (OSI: Licence Number 2017/06/CCMA/CorkCountyCouncil)