
S.I. Ltd Contract No: 5885

Engineer: McCrae Consulting Engineers
Contractor: Site Investigations Ltd

Kiltipper Road,
Tallaght, Dublin 24
Site Investigation

Prepared by:

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Stephen Letch

Issue Date:	22/09/2021
Status	Final
Revision	1

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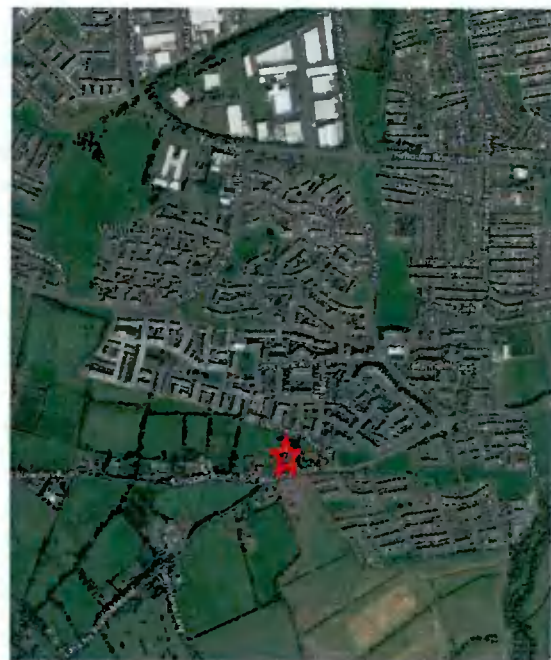
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1. Introduction

On the instructions of McCrae Consulting Engineers, Site Investigations Ltd (SIL) were appointed to complete a site investigation at Kiltipper Road, Kiltipper, Tallaght, Dublin 24. The investigation was completed in September 2021.

2. Site Location

The site is located on the Kiltipper Road, To the south of Tallaght in Dublin 24. Tallaght is to the south west of Dublin city centre. The map on the left shows the location of Kiltipper to the south west of Dublin city centre and the second map shows the site location to the south of Tallaght.



3. Fieldwork

The fieldworks comprise a programme of a soakaway test, which was completed in accordance with BRE Special Digest 365. The fieldworks comprised of the following:

- 1 No. soakaway test

3.1. Soakaway Test

1 No. soakaway test was completed and carried out in accordance with BRE Special Digest 365. The soakaway tests were logged by a SIL geotechnical engineer. The soakaway test is used to identify possible areas for storm water drainage. The pit is to be filled with water twice to ensure that the soils are saturated and then filled a further time and level of the groundwater

is recorded over time. The time taken for the water level to fall from 75% volume to 25% volume is required to calculate the rate of infiltration. However, should the water level stop falling and remain within the pit then the soils are already saturated and unsuitable for soakaway design.

The soakaway result and photographs are presented in Appendix 1.

3.2. Surveying

Following completion of the fieldworks, a survey of the exploratory hole location was completed using a GeoMax GPS Rover. The data is supplied along with a site plan in Appendix 2.

4. Recommendations and Conclusions

Please note the following caveats:

The recommendations given, and opinions expressed in this report are based on the findings as detailed in the exploratory hole records. Where an opinion is expressed on the material between the exploratory hole locations or below the final level of excavation, this is for guidance only and no liability can be accepted for its accuracy. No responsibility can be accepted for adjacent unexpected conditions that have not been revealed by the exploratory holes. It is further recommended that all bearing surfaces when excavated should be inspected by a suitably qualified Engineer to verify the information given in this report.

4.1. Soakaway Tests

The soakaway test recorded no infiltration and therefore, failed the specification. The BRE Digest stipulates that the pit should half empty within 24hrs, and extrapolation indicates this condition would not be satisfied. The test was terminated during the first of a possible three fill/empty cycle since further testing would give even slower fall rates due to increased soil saturation. The unsuitability of the soils for soakaways is further suggested by the soil descriptions of the materials in this area of the site where the soakaway was completed, i.e., well compacted clay/silt soils.

Appendix 1
Soakaway Test Result and Photographs

SOAKAWAY TEST



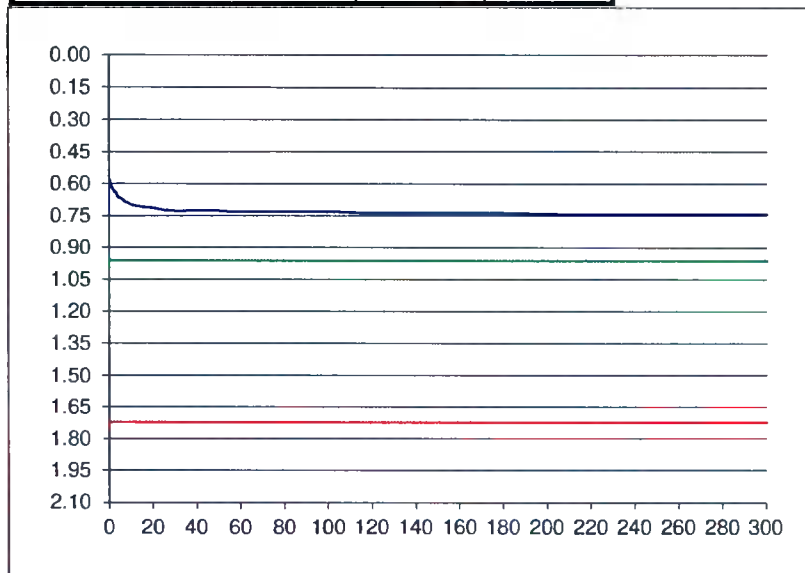
Project Reference:	5885
Contract name:	Kiltipper Road
Location:	Tallaght, Dublin 24
Test No:	SA01
Date:	20/09/2021

Ground Conditions

From	To	
0.00	0.05	TOPSOIL.
0.05	1.40	Light brown silty gravelly SAND with medium cobble content and occasional clay bands.
1.40	1.70	Firm light brown sandy slightly gravelly silty CLAY with medium cobble and low boulder content.
1.70	2.10	Stiff light brown slightly sandy gravelly silty CLAY with medium cobble

Elapsed Time (mins)	Fall of Water (m)
0	0.58
1	0.61
2	0.63
3	0.64
4	0.66
5	0.67
6	0.67
7	0.68
8	0.69
9	0.69
10	0.70
15	0.71
20	0.71
25	0.72
30	0.73
35	0.73
40	0.73
50	0.73
60	0.73
75	0.73
90	0.73
105	0.73
120	0.74
140	0.74
160	0.74
180	0.74
210	0.74
240	0.74
300	0.74

Pit Dimensions (m)	
Length (m)	2.60 m
Width (m)	0.40 m
Depth	2.10 m
Water	
Start Depth of Water	0.58 m
Depth of Water	1.52 m
75% Full	0.96 m
25% Full	1.72 m
75%-25%	0.76 m
Volume of water (75%-25%)	0.79 m ³
Area of Drainage	12.60 m ²
Area of Drainage (75%-25%)	5.60 m ²
Time	
75% Full	N/A min
25% Full	N/A min
Time 75% to 25%	N/A min
Time 75% to 25% (sec)	N/A sec



f = **Fail** or **Fail**
m/min m/s

SA01 Sidewall



SA01 Spoil



Appendix 2
Survey Data

Survey Data


Location	Irish Transverse Mercator		Elevation	Irish National Grid	
	Easting	Northing		Easting	Northing
Soakaway Tests					
SA01	708263.607	725506.477	135.88	308336.436	225478.278

Legend Key

- Locations By Type - SA



Contract No:	5885
Contract Name:	Killipper Road
Location:	Tallaght, Dublin 24
Client:	-
Engineer:	McCrae Consulting Engineers
Title:	Site Plan
Scale:	1:750
Drawn By:	SL



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 Cathair Chorcaí

Irish Water
 PO Box 448,
 South City
 Delivery Office,
 Cork City

www.water.ie

13 October 2021

Re: CDS21006547 pre-connection enquiry - Subject to contract | Contract denied

Connection for Housing Development of 11 unit(s) at The Priory & Leabeg, Kiltipper Road, Dublin

Dear Sir/Madam,

Irish Water has reviewed your pre-connection enquiry in relation to a Water & Wastewater connection at The Priory & Leabeg, Kiltipper Road, Dublin (the **Premises**). Based upon the details you have provided with your pre-connection enquiry and on our desk top analysis of the capacity currently available in the Irish Water network(s) as assessed by Irish Water, we wish to advise you that your proposed connection to the Irish Water network(s) can be facilitated at this moment in time.

SERVICE	<p style="text-align: center;">OUTCOME OF PRE-CONNECTION ENQUIRY</p> <p style="text-align: center;"><u>THIS IS NOT A CONNECTION OFFER. YOU MUST APPLY FOR A CONNECTION(S) TO THE IRISH WATER NETWORK(S) IF YOU WISH TO PROCEED.</u></p>
Water Connection	Feasible without infrastructure upgrade by Irish Water
Wastewater Connection	Feasible without infrastructure upgrade by Irish Water
SITE SPECIFIC COMMENTS	
Water Connection	<p>Connection to the water network will be carried out via the 160mm uPVC water main approximately 6m from the site boundary to the South.</p> <p>This confirmation of feasibility to connect to the Irish Water infrastructure does not extend to your fire flow requirements.</p>
Wastewater Connection	<p>There is a gravity sewer approx. 32m from the subject site to the North as per mapping submitted by the applicant. It is the responsibility of the applicant to verify the sewer sizing.</p> <p>The elevation levels of the foul sewer and subject site are to be verified by the applicant to ensure that a gravity connection can be carried out.</p>

It is the responsibility of the applicant to obtain all relevant permissions required to connect to the IW network through third party lands prior to the connection works taking place.

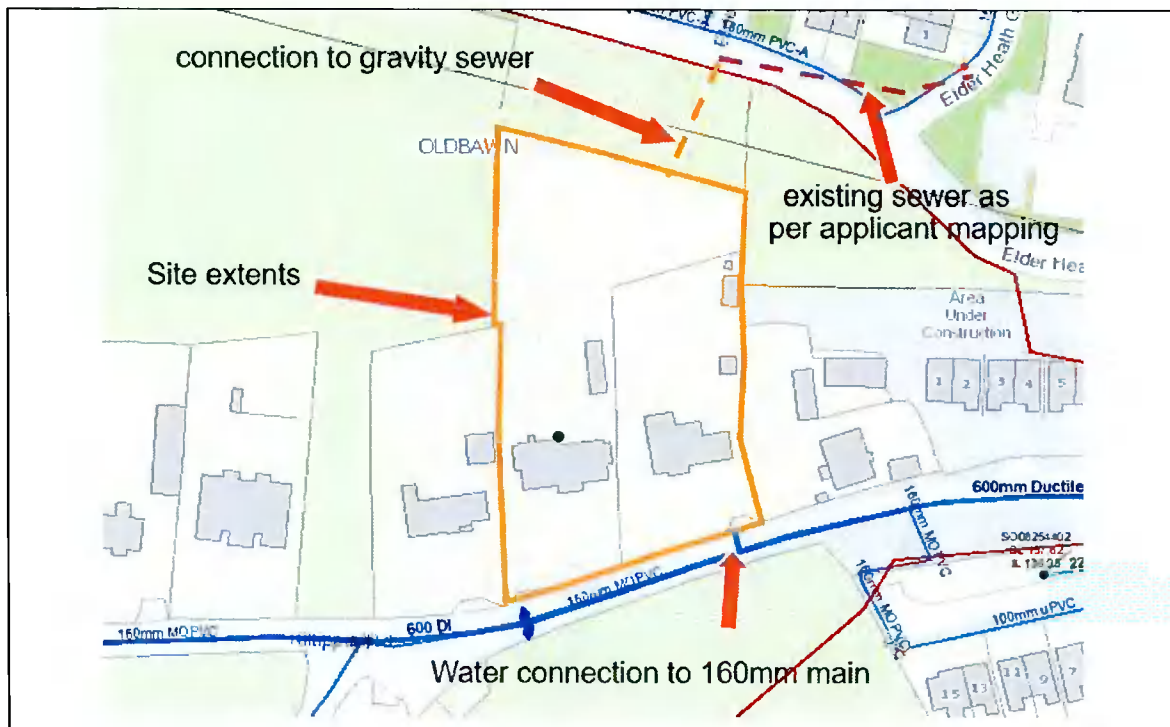
The proposed wastewater connection is connecting to Irish Water infrastructure through third party infrastructure not owned by Irish Water. Prior to connection the customer is to provide a letter to Irish Water from the third party owner confirming the following:

- (a) The customer has permission to connect to the third party infrastructure
- (b) The third party infrastructure has sufficient capacity to cater for the additional load
- (c) The third party infrastructure is of sufficient integrity to take the connection and the additional load

Storm water is to be discharged to the adjacent storm network

The design and construction of the Water & Wastewater pipes and related infrastructure to be installed in this development shall comply with the Irish Water Connections and Developer Services Standard Details and Codes of Practice that are available on the Irish Water website. Irish Water reserves the right to supplement these requirements with Codes of Practice and these will be issued with the connection agreement.

The map included below outlines the current Irish Water infrastructure adjacent to your site:



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Whilst every care has been taken in its compilation Irish Water gives this information as to the position of its underground network as a general guide only on the strict understanding that it is based on the best available information provided by each Local Authority in Ireland to Irish Water. Irish Water can assume no responsibility for and

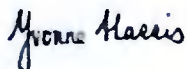
give no guarantees, undertakings or warranties concerning the accuracy, completeness or up to date nature of the information provided and does not accept any liability whatsoever arising from any errors or omissions. This information should not be relied upon in the event of excavations or any other works being carried out in the vicinity of the Irish Water underground network. The onus is on the parties carrying out excavations or any other works to ensure the exact location of the Irish Water underground network is identified prior to excavations or any other works being carried out. Service connection pipes are not generally shown but their presence should be anticipated.

General Notes:

- 1) The initial assessment referred to above is carried out taking into account water demand and wastewater discharge volumes and infrastructure details on the date of the assessment. **The availability of capacity may change at any date after this assessment.**
- 2) This feedback does not constitute a contract in whole or in part to provide a connection to any Irish Water infrastructure. All feasibility assessments are subject to the constraints of the Irish Water Capital Investment Plan.
- 3) The feedback provided is subject to a Connection Agreement/contract being signed at a later date.
- 4) A Connection Agreement will be required to commencing the connection works associated with the enquiry this can be applied for at <https://www.water.ie/connections/get-connected/>
- 5) A Connection Agreement cannot be issued until all statutory approvals are successfully in place.
- 6) Irish Water Connection Policy/ Charges can be found at <https://www.water.ie/connections/information/connection-charges/>
- 7) Please note the Confirmation of Feasibility does not extend to your fire flow requirements.
- 8) Irish Water is not responsible for the management or disposal of storm water or ground waters. You are advised to contact the relevant Local Authority to discuss the management or disposal of proposed storm water or ground water discharges
- 9) To access Irish Water Maps email datarequests@water.ie
- 10) All works to the Irish Water infrastructure, including works in the Public Space, shall have to be carried out by Irish Water.

If you have any further questions, please contact Kevin McManmon from the design team at kmcmanmon@water.ie For further information, visit www.water.ie/connections.

Yours sincerely,



Yvonne Harris

Head of Customer Operations

