



Geological Survey Ireland  
Block 1  
Booterstown Hall  
Booterstown  
Blackrock  
Co. Dublin  
A94 N2R6

Date: 05 September 2023

Re: Proposed construction of 39 residential units, widening of Pausdeen Bridge and all associated site works.  
Newtown/Ardclough Road, Newtown, Celbridge, Co. Kildare.

Dear Sir / Madam,

An Bord Pleanála has received your recent submission in relation to the above mentioned proposed development and will take it into consideration in its determination of the matter.

Please note that the proposed development shall not be carried out unless the Board has approved it with or without modifications.

If you have any queries in relation to the matter please contact the undersigned officer of the Board at [laps@pleanala.ie](mailto:laps@pleanala.ie)

Please quote the above mentioned An Bord Pleanála reference number in any correspondence or telephone contact with the Board.

Yours faithfully,

P.P. S. Caulfield

Eimear Reilly  
Executive Officer  
Direct Line: 01-8737184

AA02

Tell	Tel	(01) 858 8100
Gao Áitiúil	LoCall	1800 275 175
Facs	Fax	(01) 872 2684
Léithreán Gréasáin	Website	<a href="http://www.pleanala.ie">www.pleanala.ie</a>
Ríomhphost	Email	bord@pleanala.ie

64 Sráid Maolbhride  
Balla Átha Cliath 1  
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64 Marlborough Street  
Dublin 1  
D01 V902

## Eimear Reilly

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**From:** LAPS  
**Sent:** Monday 4 September 2023 13:27  
**To:** GSIPlanning@GSI.ie  
**Subject:** RE: EIS 23/226 - Proposed Housing at Newtown/Ardclough Road, Newtown, Celbridge, Co Kildare

Good afternoon

The Board acknowledges receipt of your email. A formal acknowledgement of your submission will issue via post.

Kind regards

Eimear

**From:** Appeals2 <appeals@pleanala.ie>  
**Sent:** Thursday, August 31, 2023 3:26 PM  
**To:** LAPS <laps@pleanala.ie>  
**Subject:** FW: EIS 23/226 - Proposed Housing at Newtown/Ardclough Road, Newtown, Celbridge, Co Kildare

**From:** Bord <bord@pleanala.ie>  
**Sent:** Thursday, August 31, 2023 1:15 PM  
**To:** Appeals2 <appeals@pleanala.ie>  
**Subject:** FW: EIS 23/226 - Proposed Housing at Newtown/Ardclough Road, Newtown, Celbridge, Co Kildare

**From:** GSI Planning <GSIPlanning@GSI.ie>  
**Sent:** Thursday, August 31, 2023 12:22 PM  
**To:** Bord <bord@pleanala.ie>  
**Cc:** GSI Planning <GSIPlanning@GSI.ie>; Planning Advisory <PlanningAdvisory@decc.gov.ie>  
**Subject:** RE: EIS 23/226 - Proposed Housing at Newtown/Ardclough Road, Newtown, Celbridge, Co Kildare

Dear Sir/Madam,

With reference to the email from Kildare CoCo received on the 21 August 2023, concerning the Proposed construction of 39 residential units, widening of Pausdeen Bridge and all associated site works at Newtown/Ardclough Road, Newtown, Celbridge, Co. Kildare, please find attached response and dataset sheet from Geological Survey Ireland.

Yours sincerely,

Trish Smullen

Geological Survey Ireland

**From:** John Butler <John.Butler@gsi.ie>  
**Sent:** Monday, August 21, 2023 5:33 PM  
**To:** Trish Smullen <Trish.Smullen@gsi.ie>  
**Cc:** GSI Planning <GSIPlanning@GSI.ie>  
**Subject:** EIS 23/226 - Proposed Housing at Newtown/Ardclough Road, Newtown, Celbridge, Co Kildare

EIS 23/226

**Proposed Housing Development at Newtown/Ardclough Road, Newtown, Celbridge, Co Kildare. Request for observations by Kildare Co Council by 28 September 2023. Letter with details is enclosed.**

Regards,

John

**Disclaimer:**

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Tá eolas sa teachtaireacht leictreonach seo (agus b'fheidir sa chomhaid ceangailte leis) a d'fhéadfadh bheith príobháideach nó faoi rún. Is le h-aghaidh an duine/na ndaoine nó le h-aghaidh an aonáin atá ainmnithe thusa agus le haghaidh an duine/na ndaoine sin amháin atá an t-eolas. Murab ionann tusa agus an té a bhfuil an teachtaireacht ceaptha dó biodh a fhios agat nach gceadaítear nochtadh, cóipeáil, scaipeadh nó úsáid an eolais agus/nó an chomhaid seo. Más trí earráid a fuair tú an teachtaireacht leictreonach seo cuir, más é do thoil é, an té ar sheol an teachtaireacht ar an eolas láithreach. Deimhnítear leis seo freisin nár aims odh víreas sa phost seo tar éis a scanadh.



An Bord Pleanála,  
64 Marlborough Street,  
Dublin 1, D01 V902

31 August 2023

**Re: Proposed construction of 39 residential units, widening of Pausdeen Bridge and all associated site works at Newtown/Ardclough Road, Newtown, Celbridge, Co. Kildare**

Your Ref: n/a

Our Ref: 23/226

Dear Sir/Madam,

Geological Survey Ireland is the national earth science agency and is a division of the Department of the Environment, Climate and Communications. We provide independent geological information and gather various data for that purpose. Please see our [website](#) for data availability. We recommend using these various data sets, when conducting the EIAR, SEA, planning and scoping processes. Use of our data or maps should be attributed correctly to 'Geological Survey Ireland'.

The publicly available data referenced/presented here, should in no way be construed as Geological Survey Ireland support for or objection to the proposed development or plan. The data is made freely available to all and can be used as independent scientific data in assessments, plans or policies. It should be noted that in many cases this data is a baseline or starting point for further site specific assessments.

With reference to your email received on the 21 August 2023, concerning the Proposed construction of 39 residential units, widening of Pausdeen Bridge and all associated site works at Newtown/Ardclough Road, Newtown, Celbridge, Co. Kildare, Geological Survey Ireland would encourage use of and reference to our datasets. Please find attached a list of our publicly available datasets that may be useful to the environmental assessment and planning process. We recommend that you review this list and refer to any datasets you consider relevant to your assessment. The remainder of this letter and following sections provide more detail on some of these datasets.

#### **Geoheritage**

A national inventory of geoheritage sites known as County Geological Sites (CGSs) is managed by the Geoheritage Programme of Geological Survey Ireland. CGSs, as adopted under the National Heritage Plan, include sites that are of national importance which have been selected as the very best examples for NHA (Natural Heritage Areas) designation. NHA designation will be completed in partnership with the National Parks and Wildlife Service (NPWS). CGSs are now routinely included in County Development Plans and in the GIS of planning departments, to ensure the recognition and appropriate protection of geological heritage within the planning system. CGSs can be viewed online under the Geological Heritage tab on the online [Map Viewer](#).

The audit for Co. Kildare was carried out in 2005. The full report details can be found [here](#). Our records show that there are no CGSs in the vicinity of the proposed development.

#### **Groundwater**

Geological Survey Ireland's [Groundwater and Geothermal Unit](#), provides advice, data and maps relating to groundwater distribution, quality and use, which is especially relevant for safe and secure drinking water supplies and healthy ecosystems.

Proposed developments need to consider any potential impact on specific groundwater abstractions and on groundwater resources in general. We recommend using the groundwater maps on our [Map viewer](#) which should include: wells; drinking water source protection areas; the national map suite - aquifer, groundwater vulnerability, groundwater recharge and subsoil permeability maps. For areas underlain by limestone, please refer to the karst specific data layers (karst features, tracer test database; turlough water levels ([gwlevel.ie](#))). Background information is also provided in the Groundwater Body Descriptions. Please read all disclaimers carefully when using Geological Survey Ireland data.



The Groundwater Data Viewer indicates an aquifer classed as 'Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones' and a 'Locally important gravel aquifer' underlie and the proposed development.

The Groundwater Vulnerability map indicates the area covered is classed as 'Moderate' to 'High' Vulnerability.

[GWClimate](#) is a groundwater monitoring and modelling project that aims to investigate the impact of climate change on groundwater in Ireland. This is a follow on from a previous project (GW Flood) and the data may be useful in relation to Flood Risk Assessment (FRA) and management plans. Maps and data are available on the [Map viewer](#).

Geological Survey Ireland has completed Groundwater Protection Schemes (GWPSs) in partnership with Local Authorities, and there is now national coverage of GWPS mapping. A Groundwater Protection Scheme provides guidelines for the planning and licensing authorities in carrying out their functions, and a framework to assist in decision-making on the location, nature and control of developments and activities in order to protect groundwater. The Groundwater Protection Response overview and link to the main reports is here: <https://www.gsi.ie/en-ie/programmes-and-projects/groundwater/projects/protecting-drinking-water/what-is-drinking-water-protection/county-groundwater-protection-schemes/Pages/default.aspx>

#### Geohazards

Geohazards can cause widespread damage to landscapes, wildlife, human property and human life. In Ireland, landslides, flooding and coastal erosion are the most prevalent of these hazards. We recommend that geohazards be taken into consideration, especially when developing areas where these risks are prevalent, and we encourage the use of our data when doing so.

Geological Survey Ireland has information available on landslides in Ireland via the National Landslide Database and Landslide Susceptibility Map both of which are available for viewing on our dedicated [Map Viewer](#). Associated guidance documentation relating to the National Landslide Susceptibility Map is also available.

Geological Survey Ireland also engaged in a national project on Groundwater Flooding. The data from this project may be useful in relation to Flood Risk Assessment (FRA) and management plans, and is described in more detail under 'Groundwater' above.

#### Natural Resources (Minerals/Aggregates)

Geological Survey Ireland provides data, maps, interpretations and advice on matters related to minerals, their use and their development in our [Minerals section](#) of the website. The Active Quarries, Mineral Localities and the Aggregate Potential maps are available on our [Map Viewer](#).

We would recommend use of the Aggregate Potential Mapping viewer to identify areas of High to Very High source aggregate potential within the area. In keeping with a sustainable approach we would recommend use of our data and mapping viewer to identify and ensure that natural resources used in the proposed development are sustainably sourced from properly recognised and licensed facilities, and that consideration of future resource sterilization is considered.

#### Geochemistry of soils, surface waters and sediments

Geological Survey Ireland provides baseline geochemistry data for Ireland as part of the Tellus programme. Baseline geochemistry data can be used to assess the chemical status of soil and water at a regional scale and to support the assessment of existing or potential impacts of human activity on environmental chemical quality. Tellus is a national-scale mapping programme which provides multi-element data for shallow soil, stream sediment and stream water in Ireland. At present, mapping consists of the border, western and midland regions. Data is available at <https://www.gsi.ie/en-ie/data-and-maps/Pages/Geochemistry.aspx>. This page also hosts Geochemical Mapping of Agricultural and Grazing Land Soil of Europe (GEMAS) and lithogeochemistry (rock geochemistry) from southeast Ireland datasets. Geological Survey Ireland and partners are undertaking applied geochemistry projects to provide data for agriculture ([Terra Soil](#)), waste soil characterisation ([Geochemically Appropriate Levels for Soil Recovery Facilities](#)) and mineral exploration ([Mineral Prospectivity Mapping](#)).



### **Other Comments**

Should development go ahead, all other factors considered, Geological Survey Ireland would much appreciate a copy of reports detailing any site investigations carried out. The data would be added to Geological Survey Ireland's national database of site investigation boreholes, implemented to provide a better service to the civil engineering sector. Data can be sent to the Geological Mapping Unit, at <mailto:GeologicalMappingInfo@gsi.ie>, 01-678 2795.

I hope that these comments are of assistance, and if we can be of any further help, please do not hesitate to the Geological Survey Ireland Planning Team at [GSIPlanning@gsi.ie](mailto:GSIPlanning@gsi.ie).

Yours sincerely,

**Geoheritage and Planning Programme**

Enc: Table - Geological Survey Ireland's Publicly Available Datasets Relevant to Planning, EIA and SEA processes.



Geological Survey Ireland Programme	Dataset	Relevant EIA Topic	Coverage	Description / Notes / Limitations	Link to Geological Survey Ireland map viewer
Geohazards	Landslide: National landslide database and landslide susceptibility map	Land & Soil/Climatic/Landscape	National	Associated guidance documentation relating to the National Landslide Susceptibility Map is also available. Provide information of historic floods, both surface water and groundwater. [A lack of flooding predicted in any specific location of the map only indicates that a flood has not been detected. It does not indicate that a flood cannot occur in that location at present or in the future].	<a href="https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=448f83c5257994356d8086539c735bccc">https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=448f83c5257994356d8086539c735bccc</a>
Geohazards	Groundwater Flooding (Hazard)	Water	Regional	Provides information on the probability of future lands @roundwater flooding (where available). The map do not, and are not intended to, constitute advice. Professional or specialist advice should be sought before taking, or refraining from, any action on the basis of the flood maps.]	<a href="https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=a49f83c5257994356d8086539c735bccc">https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=a49f83c5257994356d8086539c735bccc</a>
Geohazards	Groundwater Flooding (Predictive)	Land & Soils/Air	National	All geological heritage sites identified by Geological Survey Ireland are categorised in CGS pending any further NRA designation by NPWS.	<a href="https://deanr.maps.arcgis.com/apps/MapSeries/index.html?seriesId=7e012a99e2748a5a31016e7e1b5ab05155scale0">https://deanr.maps.arcgis.com/apps/MapSeries/index.html?seriesId=7e012a99e2748a5a31016e7e1b5ab05155scale0</a>
Geohazards	Baden Map	Land & Soils	National	1:10,000 scale and associated metadata.	<a href="https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0">https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0</a>
Geohazards	County Geological Sites as adopted by National Heritage Plan and listed in County Development Plan	Land & Soils/Landscape	Regional	All geological heritage sites identified by Geological Survey Ireland are categorised in CGS pending any further NRA designation by NPWS.	<a href="https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0">https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0</a>
Geohazards	Bedrock geology:	Land & Soils	Regional	1:50,000 scale	<a href="https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0">https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0</a>
Geohazards	Bedrock geology:	Land & Soils	National	1:50,000 scale	<a href="https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0">https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0</a>
Geological Mapping	Quaternary Geology: Sediments	Land & Soils	National	1:50,000 scale	<a href="https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0">https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0</a>
Geological Mapping	Quaternary Geology: Geomorphology	Land & Soils	National	Broad-scale physical landscape units mapped at 1:100,000 scale in order to be represented as a cartographic digital map at 1:250,000 scale	<a href="https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=a76541065a877833a7a1b0725c52b">https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=a76541065a877833a7a1b0725c52b</a>
Geological Mapping	Physiographic units:	Land & Soils	Regional	Includes 3D models	<a href="https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0">https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0</a>
Geological Mapping	Geohazard: Spatial geological data for the greater Dublin and Cork areas	Land & Soils	National	Digitalised geological and Site Investigation Reports and boreholes which can be accessed through online Esri links	<a href="https://deanr.maps.arcgis.com/apps/goldmine/index.html">https://deanr.maps.arcgis.com/apps/goldmine/index.html</a>
Geological Mapping	Geodacthical database	Land & Soils/Water	National	Available online	<a href="https://secure.dit.ie/goldmine/">https://secure.dit.ie/goldmine/</a>
Geodatime	Historical data sets including geological memoirs and 5' to 1 mile geological mapsheet records	Water	National	Data limited to 1:100,000 scale; sites should be investigated at local scale	<a href="https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0">https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0</a>
Groundwater & Geothermal	Groundwater resources (aquifers)	Water	National	Data limited to 1:40,000 scale; sites should be investigated at local scale; long term annual average recharge	<a href="https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0">https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0</a>
Groundwater & Geothermal	Groundwater recharge	Water	National	Data limited to 1:40,000 scale; sites should be investigated at local scale	<a href="https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0">https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0</a>
Groundwater & Geothermal	Groundwater vulnerability	Water	National	Not all PW5 / SW5 have SWP2 / 20C. Check with W / co-co / NIGW5 for private supplies.	<a href="https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0">https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0</a>
Groundwater & Geothermal	Group scheme and public supply source protection areas.	Water	National	Data is limited to scale of 1:40,000. Data does not include all of the source protection areas.	<a href="https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0">https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0</a>
Groundwater & Geothermal	Groundwater Protection Schemes	Water	National	For areas underlain by limestone, includes karst features, tracer test database, turbidity water levels, (SWP1 etc).	<a href="https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0">https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0</a>
Groundwater & Geothermal	Groundwater and WFD management units.	Water	National	No comprehensive, there may be unrecognised wells and springs	<a href="https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0">https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=7e1b5ab05155scale0</a>
Groundwater & Geothermal	Irrar specific data layers	Water	National	Non exhaustive; only those in designated SACs; could be other GWOTs; for more information contact NPWS / EPA, site investigations	<a href="http://www.gsi.ie/en/programmes-and-projects/groundwater-and-groundwater-safeguarding/">http://www.gsi.ie/en/programmes-and-projects/groundwater-and-groundwater-safeguarding/</a>
Groundwater & Geothermal	Wells and Springs	Water	National	Also, Guidance for a Policy and Regulatory Framework for Geothermal Energy, November 2020	<a href="https://secure.dit.ie/gis/informar/VIEWER/">https://secure.dit.ie/gis/informar/VIEWER/</a>
Groundwater & Geothermal	Geothermal Suitability maps	Land & Soils/Water	National	Currently the project is being carried out on the east coast and will be rolled out nationally.	<a href="http://www.chrisproject.eu/en/">http://www.chrisproject.eu/en/</a>
Marine & Coastal Unit	CHERISH - Ireland's national marine mapping programme: Providing new baseline data for Ireland's Water	Water / Land & Soils	Regional	Consideration of mineral resources and potential resources as a material asset which should be explicitly recognised within the environmental assessment process	<a href="https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=913253a134416d6d9556">https://deanr.maps.arcgis.com/apps/webappviewer/index.html?id=913253a134416d6d9556</a>
Marine & Coastal Unit	Coastal vulnerability index (CVI)	Land & Soils/Material Assets	National	Inventory and Risk Classification 2008, Environmental Protection Agency, Economic Minerals Division and Geological Survey Ireland (DECC).	<a href="https://www.dbo.ie/er/ercontent/mines/">https://www.dbo.ie/er/ercontent/mines/</a>
Minerals	Aggregate potential	Land & Soils	National	A National mapping programme	<a href="https://deanr.maps.arcgis.com/apps/MapSeries/index.html?seriesId=650ca12207345898642207172754">https://deanr.maps.arcgis.com/apps/MapSeries/index.html?seriesId=650ca12207345898642207172754</a>
Minerals	Active quarries	National	National	A National mapping programme	<a href="https://deanr.maps.arcgis.com/apps/MapSeries/index.html?seriesId=650ca12207345898642207172754">https://deanr.maps.arcgis.com/apps/MapSeries/index.html?seriesId=650ca12207345898642207172754</a>
Minerals	Historic mines	National	National	A National mapping programme	<a href="https://deanr.maps.arcgis.com/apps/MapSeries/index.html?seriesId=650ca12207345898642207172754">https://deanr.maps.arcgis.com/apps/MapSeries/index.html?seriesId=650ca12207345898642207172754</a>
Tellus	Geophysical data: multi-element data for shallow soil, stream sediments and stream water	Land & Soils	Regional	A National mapping programme	<a href="https://deanr.maps.arcgis.com/apps/MapSeries/index.html?seriesId=650ca12207345898642207172754">https://deanr.maps.arcgis.com/apps/MapSeries/index.html?seriesId=650ca12207345898642207172754</a>
Tellus	Airborne geochemistry mapping Dublin SuNCE project	Land & Soils	Regional	Urban geochemistry mapping Dublin SuNCE project.	<a href="https://deanr.maps.arcgis.com/apps/MapSeries/index.html?seriesId=650ca12207345898642207172754">https://deanr.maps.arcgis.com/apps/MapSeries/index.html?seriesId=650ca12207345898642207172754</a>

Notes:

1. The maps and data listed above are available on the Geological Survey Ireland data map viewer <https://www.gsi.ie/en/h/data-and-maps/default.aspx>.

2. Please read all disclaimers carefully when using Geological Survey Ireland data.

3. Geological Survey Ireland and Irish Concrete Federation published guidelines for the treatment of geological heritage in the extractive industry in 2008.