

APPENDIX 6.4

Permitted other projects in within 500 m of site

Appendix 6.4 Planning database¹ search of projects within 500m of the proposed development site over the last 5 years

Project Code	Status	Overview	Project Area (sq m)	Characteristics of the potential interactions between the projects; sources and pathways	Is there a risk of in-combination effects	Are significant in-combination effects likely
FW20A/0126	Grant Permission	<p>The development will comprise the provision of 4 No. warehouses with marshalling offices, ancillary office space, staff facilities and associated development. The buildings will have a maximum principal height of 17.070 No. metres to the top of the parapet above ground floor level and will comprise the following areas: Unit 1 will have a gross floor area of 21,578 sq.m. including a warehouse (20,252 sq.m.), marshalling office (66 sq.m.), ancillary office space (1,216 sq.m.) and plant (44 sq.m.); Unit 2 will have a gross floor area of 9,206 sq.m. including a warehouse (8,347 sq.m.), marshalling office (66 sq.m.), ancillary office space (757 sq.m.) and pant (36 sq.m.); Unit 3 will have a gross floor area of 16,525 sq.m. including a warehouse (15,478 sq.m.), ancillary office space (944 sq.m.) and plant (37 sq.m.); and Unit 4 will have a gross floor area of 7,342 sq.m. including a warehouse (6,648 sq.m.), marshalling office (66 sq.m.), ancillary office space (589 sq.m.) and plant (39 sq.m.). A gate house with a gross floor area of 14 sq.m. will be positioned to the south-west corner of the site.</p> <p>The development will also include the repositioning of the access from the L3125 Road to the north of the site to provide a new entrance and a second vehicular access will be provided from the R135/Elm Road to the south-west. Road upgrade works are proposed along the L3125 to the north of the site which include the partial upgrade of Kilshane Cross signalised junction to incorporate a left turning lane and upgraded signals on the L3125 Local Road eastern approach arm and the provision of cycle paths and pedestrian footpaths.</p>	401,103	<p>This is a large-scale project with a temporary construction phase and the operational phase will have localised effects that have low to negligible long-term impacts with the surrounding environment.</p> <p>This project will also be subject to EIA and AA assessments as required.</p> <p>Considering the above, and the lack of any significant impact as a result of the proposed development, it is not considered that there will be any potential for cumulative impacts with this project as a result of the proposed development.</p>	No	No

¹ <https://data-housinggov.ie/opendata.arcgis.com/datasets/planning-application-sites-2010-onwards>; for Kilshane Energy - accessed 5th September 2022

Project Code	Status	Overview	Project Area (sq m)	Characteristics of the potential interactions between the projects; sources and pathways	Is there a risk of in-combination effects	Are significant in-combination effects likely
		There will also be internal roadways; pedestrian access; 502 No. ancillary car parking spaces; bicycle parking; HGV parking and yards; level access goods doors; hard and soft landscaping; boundary treatments; ESB substations; signage; PV panels; lighting and associated site development works above and below ground. The total gross floor area of the development is 5,763 sq.m. (including warehouse structures, gate house and ESB substations).				
F18A/0146	Grant Permission	A storage and distribution centre for new imported vehicles with a total capacity for 5,951 no. vehicles and comprises vehicle storage, internal circulation roadways, vehicle loading and unloading area and transporter parking spaces. the surface treatment of the vehicle storage areas comprises recycled plastic modular porous paving. Associated facilities include: a vehicle wash area, fuelling area and valet enclosure (approx. 120 sq.m.). The development also includes a vehicle inspection and fit out building (approx. 2656 sq.m. and 9.14m high) incorporating operation control room, offices, meeting room, canteen, toilets, plant area and building signage. Other site development works include: 1 no. security hut (11 sq.m); staff car parking (28 no. spaces) and staff bicycle parking spaces (14 no. spaces); boundary treatments including landscape berm and boundary fence over wall (approx. 3.33m high) new primary gated vehicular entrance onto the R135; emergency gated vehicular entrance onto Kilshane Road (L3125); lighting and CCTV poles (approx. 12m high); on-site substation (24.6 sq.m); external plant area (76 sq.m.); underground drainage and electricity infrastructure; the removal of existing vegetation and new landscaping works. The development also includes road improvement works to the Kilshane Road (L3125) comprising the reconfiguration of the existing roadway (including extending existing culvert); provision of a left turn lane at the junction with the R135; and dedicated cycle and pedestrian facilities. All development to	376,229	<p>This is a large-scale project with a temporary construction phase and the operational phase will have localised effects that have low to negligible long-term impacts with the surrounding environment.</p> <p>This project will also be subject to EIA and AA assessments as required.</p> <p>Considering the above, and the lack of any significant impact as a result of the proposed development, it is not considered that there will be any potential for cumulative impacts with this project as a result of the proposed development.</p>	No	No

Project Code	Status	Overview	Project Area (sq m)	Characteristics of the potential interactions between the projects; sources and pathways	Is there a risk of in-combination effects	Are significant in-combination effects likely
		take place on a site of approx. 13.1 hectares.				
FW17A/0012	Grant Permission	<p>The development will comprise an increase in the permitted intake rate of construction and demolition (C&D) waste at the facility from a maximum of 24,950 tonnes per annum at present to 95,000 tonnes per annum in future years.</p> <p>The application provides for continuation and intensification of waste recovery activity at the established C&D waste recovery facility (Planning Ref. F02A/0602) on a 1.9 hectare site within the Central Quarry, in the immediate near-term (up to 2-3 years).</p> <p>It also provides for relocation of C&D waste recovery activities to a new waste recovery facility on a 5.2 hectare site in north-eastern corner of the Huntstown Quarry Complex and construction of a hardstanding area, waste processing shed, surface water processing shed, surface water management infrastructure and internal access roads at the new recovery facility.</p> <p>The proposed development requires a review of the existing waste licence (Ref.W0277-01) by the Environmental Protection Agency.</p> <p>An Environmental Impact Statement (EIS) will be submitted to the planning authority in connection with the application.</p>	239,859	<p>This is a medium-scale project with a temporary construction phase and the operational phase will have localised effects that have low to negligible long-term impacts with the surrounding environment.</p> <p>This project will also be subject to EIA and AA assessments as required.</p> <p>Considering the above, and the lack of any significant impact as a result of the proposed development, it is not considered that there will be any potential for cumulative impacts with this project as a result of the proposed development.</p>	No	No
FW20A/0211	Grant Permission	<p>The development will consist of 3 no. buildings for industrial/warehouse/logistics use (Units 3,4 and 5) with gross floor area of 24,356sq.m. Each building will measure 18.1m high (at parapet level) and have 2 storey ancillary offices. Elevational signage will be provided. The units will form Phase 2 of the Vantage Business Park, with Phase 1 to the south (units 1 and 2) under construction. The proposed development includes 39 HGV parking spaces, 224 car parking spaces, 134 cycle parking spaces, 29 dock levellers and 7 grade loading bays. All associated site works including diversion of existing</p>	187,792	<p>This is a medium-scale project with a temporary construction phase and the operational phase will have localised effects that have low to negligible long-term impacts with the surrounding environment.</p> <p>This project will also be subject to EIA and AA assessments as required.</p> <p>Considering the above, and the lack of any significant impact as a result of the proposed</p>	No	No

Project Code	Status	Overview	Project Area (sq m)	Characteristics of the potential interactions between the projects; sources and pathways	Is there a risk of in-combination effects	Are significant in-combination effects likely
		foul rising main, boundary treatments, landscaping, service yards, internal road and footpaths, swales, lighting, 3 no. free standing signs, signage at entrance, refuse storage, substation, foul pumping station, extension of foul infrastructure from Phase 1, modified vehicular entrance off the R135 (including new entrance gate and pillars) and dedicated new footpath and cycleway along the east side of the R135.		development, it is not considered that there will be any potential for cumulative impacts with this project as a result of the proposed development.		
FW21A/0146	Grant Permission	<p>The proposed development consists of the following:</p> <ul style="list-style-type: none"> •Construction of 1 no. warehouse / logistics unit, including 16,840 sq.m of warehouse/ logistics floorspace and 1,441 sq.m of ancillary office floorspace (over two levels), resulting in a total GFA of 18,281 sq.m, and with a maximum building height of 17.09 metres. The proposal includes a signage zone for the proposed unit; • The provision of 181 no. car parking spaces, 60 no. cycle parking spaces, HGV loading bays and service yard area; • The access to the unit will be provided by extending the existing Kilshane Avenue access road serving Northwest Logistics Park (including alterations to the existing road layout) to a proposed new roundabout within the subject site, which will provide access to the current development proposal, and provide access arrangements for future potential development on adjoining lands; •The development also includes an ESB substation, a smoking shelter, a sprinkler tank with a pumphouse and valvehouse, landscaping, boundary treatments, entrance gates, site lighting, and all associated site development works, underground foul and storm water drainage services (including a connection to an existing pumphouse to the southwest of the proposed warehouse / logistics unit) and attenuation areas. <p>An Environmental Impact Assessment Report (EIA) will be submitted to the Planning Authority with the planning application and the EIA will be available for inspection or</p>	153,704	<p>This is a medium-scale project with a temporary construction phase and the operational phase will have localised effects that have low to negligible long-term impacts with the surrounding environment.</p> <p>This project will also be subject to EIA and AA assessments as required.</p> <p>Considering the above, and the lack of any significant impact as a result of the proposed development, it is not considered that there will be any potential for cumulative impacts with this project as a result of the proposed development.</p>	No	No

Project Code	Status	Overview	Project Area (sq m)	Characteristics of the potential interactions between the projects; sources and pathways	Is there a risk of in-combination effects	Are significant in-combination effects likely
		purchase at a fee not exceeding the reasonable cost of making a copy at the offices of the Planning Authority.				
FW22A/0066	Grant Permission	<p>The proposed development consists of the following:</p> <p>Construction of a high technology manufacturing unit (for the manufacturing of high technology electrical components), with a total gross floor area (GFA) of 23,6000 sq.m (including ancillary office space of 2,318 sq.m. at ground and first floor levels), and with a main parapet height of c. 12 metres and maximum height of 14.5 metres. The proposed unit will be known as Unit 901;</p> <p>Provision of a link corridor between the proposed high technology manufacturing unit and Unit 900 to the south (logistics/warehouse unit permitted under Reg. Ref. FW21A/0146);</p> <p>The provision of 562 no. car parking spaces, dedicated bus drop off and 275 no. bicycle parking spaces along with HGV loading bays and a service yard to the west of the proposed unit.</p> <p>The vehicular access to the unit will be provided via two entrances from the roundabout proposed under Reg. Ref. FW21A/0146, which provides access to Kilshane Avenue to the east.</p> <p>The development also includes rooftop plant for the proposed unit, an ESB substation with switchroom, 2 no. emergency generators, 2 no. sprinkler/water tanks and 2 no. pumphouses, 2 no. smoking shelters, bicycle shelters, landscaping, boundary treatments, entrance gates, site lighting, all associated site development works, underground foul and storm water drainage services and attenuation areas including connections to existing/permitted services infrastructure and all ancillary works.</p> <p>An Environmental Impact Assessment Report (EIAR) will be</p>	58,977	<p>This is a medium-scale project with a temporary construction phase and the operational phase will have localised effects that have low to negligible long-term impacts with the surrounding environment.</p> <p>This project will also be subject to EIA and AA assessments as required.</p> <p>Considering the above, and the lack of any significant impact as a result of the proposed development, it is not considered that there will be any potential for cumulative impacts with this project as a result of the proposed development.</p>	No	No

Project Code	Status	Overview	Project Area (sq m)	Characteristics of the potential interactions between the projects; sources and pathways	Is there a risk of in-combination effects	Are significant in-combination effects likely
		<p>submitted to the Planning Authority with the planning application and the EIAR will be available for inspection or purchase at a fee not exceeding the reasonable cost of making a copy at the offices of the Planning Authority.</p> <p>The application site (with an area of c. 5.9 hectares) is located to the north of the warehouse/logistics development (Unit 900) permitted under Reg. Ref. FW21A/0146, to the northeast of Kilshane Avenue, to the south of Bay Lane and is bound by greenfield lands to the west.</p>				
FW17A/0238	Grant Permission	<p>Single storey extension (85 sq. m.) to rear of existing industrial building to house loading bay for new dock levellers.</p> <p>Minor exterior alterations to existing site layout (including 2 new security huts, a bicycle shelter and a smoking shelter and relocation of fencing, kerbing and car parking).</p>	18,018	<p>This is a small-scale project with a temporary construction phase and the operational phase will have localised effects that have low to negligible long-term impacts with the surrounding environment.</p> <p>This project will also be subject to EIA and AA assessments as required.</p> <p>Considering the above, and the lack of any significant impact as a result of the proposed development, it is not considered that there will be any potential for cumulative impacts with this project as a result of the proposed development.</p>	No	No
FW18A/0165	Grant Permission	<p>Permission for alterations to an existing building granted under planning Reg no. F07A/1297 consisting of an increase in internal floor space by the addition of a training room (100sq.m) and storage Room (66sq.m) at first floor level and construction of an internal access stairwell at Unit 622 Phase 3 Northwest Business Park, Kilshane Avenue, Ballycoolin, Dublin 15, D15VN36</p>	17,277	<p>This is a small-scale project with a temporary construction phase and the operational phase will have localised effects that have low to negligible long-term impacts with the surrounding environment.</p> <p>This project will also be subject to EIA and AA assessments as required.</p> <p>Considering the above, and the lack of any significant impact as a result of the proposed development, it is not considered that there will be any potential for cumulative impacts with this</p>	No	No

Project Code	Status	Overview	Project Area (sq m)	Characteristics of the potential interactions between the projects; sources and pathways	Is there a risk of in-combination effects	Are significant in-combination effects likely
				project as a result of the proposed development.		
FW21A/0233	Grant Permission	Alterations to an existing building granted under planning reg. no. F07A/1297 consisting of an external extension of 190 sq.m at ground and first floor level consisting of a training room, stairwell and offices.	15,083	<p>This is a small-scale project with a temporary construction phase and the operational phase will have localised effects that have low to negligible long-term impacts with the surrounding environment.</p> <p>This project will also be subject to EIA and AA assessments as required.</p> <p>Considering the above, and the lack of any significant impact as a result of the proposed development, it is not considered that there will be any potential for cumulative impacts with this project as a result of the proposed development.</p>	No	No
FW20A/0219	Grant Permission	Permission for an amendment to the original planning permission, at this site, for a gas peaking facility with 10 no. containerised gas fired generating units, with an export capacity of 20 megawatts (MV) under planning reference FW19A/0090. Amendments are proposed to the gas peaking will consist of the installation of 6 no. battery storage units with an export electricity capacity of 10-15 MV and 4 no. containerised gas fired generating units with an export electricity capacity of 10 MV, in replacement for the 10 no. containerised gas fired generating units, granted under planning reference FW19A/0090. 3 no. inverter transformers will also be added to the site, being the battery storage units. Other elements of the development will remain the same as FW19A/0090 and include an underground cabling route c 1.45km along the R135 road. 1 no. single storey electrical substation building, 1 no. customer switch entrance, security gates gear, electrical inverter/transformer station modules, concrete support structures, heating, ventilation and air conditioning units (HC/AV units), underground gas pipework and connection points, access tracks and new site entrance,	12,220	<p>This is a small-scale project with a temporary construction phase and the operational phase will have localised effects that have low to negligible long-term impacts with the surrounding environment.</p> <p>This project will also be subject to EIA and AA assessments as required.</p> <p>Considering the above, and the lack of any significant impact as a result of the proposed development, it is not considered that there will be any potential for cumulative impacts with this project as a result of the proposed development.</p>	No	No

Project Code	Status	Overview	Project Area (sq m)	Characteristics of the potential interactions between the projects; sources and pathways	Is there a risk of in-combination effects	Are significant in-combination effects likely
		security gates, perimeter security fencing, CCTV security monitoring system, landscaping works, and all associated ancillary infrastructure.				

APPENDIX TO SECTION 7

LAND, SOILS, GEOLOGY & HYDROGEOLOGY

APPENDIX 7.1
NRA CRITERIA FOR RATING THE MAGNITUDE AND SIGNIFICANCE OF IMPACTS AT EIA
STAGE NATIONAL ROADS AUTHORITY (NRA, 2009)

Table 1 Criteria for Rating Site Attributes – Estimation of Importance of Soil and Geology Attributes (NRA)

Importance	Criteria	Typical Example
Very High	<p>Attribute has a high quality, significance or value on a regional or national scale.</p> <p>Degree or extent of soil contamination is significant on a national or regional scale.</p> <p>Volume of peat and/or soft organic soil underlying route is significant on a national or regional scale.</p>	<p>Geological feature rare on a regional or national scale (NHA). Large existing quarry or pit.</p> <p>Proven economically extractable mineral resource</p>
High	<p>Attribute has a high quality, significance or value on a local scale.</p> <p>Degree or extent of soil contamination is significant on a local scale.</p> <p>Volume of peat and/or soft organic soil underlying route is significant on a local scale.</p>	<p>Contaminated soil on site with previous heavy industrial usage. Large recent landfill site for mixed wastes.</p> <p>Geological feature of high value on a local scale (County Geological Site).</p> <p>Well drained and/or high fertility soils.</p> <p>Moderately sized existing quarry or pit.</p> <p>Marginally economic extractable mineral resource.</p>
Medium	<p>Attribute has a medium quality, significance or value on a local scale.</p> <p>Degree or extent of soil contamination is moderate on a local scale.</p> <p>Volume of peat and/or soft organic soil underlying route is moderate on a local scale</p>	<p>Contaminated soil on site with previous light industrial usage. Small recent landfill site for mixed wastes.</p> <p>Moderately drained and/or moderate fertility soils.</p> <p>Small existing quarry or pit.</p> <p>Sub-economic extractable mineral resource.</p>
Low	<p>Attribute has a low quality, significance or value on a local scale.</p> <p>Degree or extent of soil contamination is minor on a local scale.</p> <p>Volume of peat and/or soft organic soil underlying route is small on a local scale.</p>	<p>Large historical and/or recent site for construction and demolition wastes.</p> <p>Small historical and/or recent landfill site for construction and demolition wastes.</p> <p>Poorly drained and/or low fertility soils.</p> <p>Uneconomically extractable mineral resource.</p>

Table 2 Criteria for Rating Site Attributes – Estimation of Importance of Hydrogeological Attributes (NRA)

Importance	Criteria	Typical Examples
Extremely High	Attribute has a high quality or value on an international scale	Groundwater supports river, wetland or surface water body ecosystem protected by EU legislation e.g. SAC or SPA status.
Very High	Attribute has a high quality or value on a regional or national scale	Regionally Important Aquifer with multiple well fields. Groundwater supports river, wetland or surface water body ecosystem protected by national legislation – NHA status. Regionally important potable water source supplying >2500 homes. Inner source protection area for regionally important water source.
High	Attribute has a high quality or value on a local scale	Regionally Important Aquifer. Groundwater provides large proportion of baseflow to local rivers. Locally important potable water source supplying >1000 homes. Outer source protection area for regionally important water source. Inner source protection area for locally important water source.
Medium	Attribute has a medium quality or value on a local scale	Locally Important Aquifer. Potable water source supplying >50 homes. Outer source protection area for locally important water source.
Low	Attribute has a low quality or value on a local scale	Poor Bedrock Aquifer Potable water source supplying <50 homes

FINGAL COUNTY COUNCIL
 PLANNING DEPARTMENT
E. J. O'Connell
 11 JAN 2023
 ADDITIONAL INFORMATION
 REGISTRY

Table 3 Criteria for Rating Impact Significance at EIS Stage – Estimation of Magnitude of Impact on Soil/ Geology Attribute (NRA)

Magnitude of Impact	Criteria	Typical Examples
Large Adverse	Results in loss of attribute	Loss of high proportion of future quarry or pit reserves. Irreversible loss of high proportion of local high fertility soils. Removal of entirety of geological heritage feature. Requirement to excavate/remediate entire waste site. Requirement to excavate and replace high proportion of peat, organic soils and/or soft mineral soils beneath alignment.
Moderate Adverse	Results in impact on integrity of attribute or loss of part of attribute	Loss of moderate proportion of future quarry or pit reserves. Removal of part of geological heritage feature. Irreversible loss of moderate proportion of local high fertility soils. Requirement to excavate/remediate significant proportion of waste site. Requirement to excavate and replace moderate proportion of peat, organic soils and/or soft mineral soils beneath alignment.
Small Adverse	Results in minor impact on integrity of attribute or loss of small part of attribute	Loss of small proportion of future quarry or pit reserves. Removal of small part of geological heritage feature. Irreversible loss of small proportion of local high fertility soils and/or high proportion of local low fertility soils. Requirement to excavate/remediate small proportion of waste site. Requirement to excavate and replace small proportion of peat, organic soils and/or soft mineral soils beneath alignment.
Negligible	Results in an impact on attribute but of insufficient magnitude to affect either use or integrity	No measurable changes in attributes
Minor Beneficial	Results in minor improvement of attribute quality	Minor enhancement of geological heritage feature
Moderate Beneficial	Results in moderate improvement of attribute quality	Moderate enhancement of geological heritage feature
Major Beneficial	Results in major improvement of attribute quality	Major enhancement of geological heritage feature

Table 4 Criteria for Rating Impact Significance at EIS Stage – Estimation of Magnitude of Impact on Hydrogeological Attribute (NRA)

Magnitude of Impact	Criteria	Typical Examples
Large Adverse	Results in loss of attribute and/or quality and integrity of attribute	Removal of large proportion of aquifer. Changes to aquifer or unsaturated zone resulting in extensive change to existing water supply springs and wells, river baseflow or ecosystems. Potential high risk of pollution to groundwater from routine run-off. Calculated risk of serious pollution incident >2% annually.
Moderate Adverse	Results in impact on integrity of attribute or loss of part of attribute	Removal of moderate proportion of aquifer. Changes to aquifer or unsaturated zone resulting in moderate change to existing water supply springs and wells, river baseflow or ecosystems. Potential medium risk of pollution to groundwater from routine run-off. Calculated risk of serious pollution incident >1% annually.
Small Adverse	Results in minor impact on integrity of attribute or loss of small part of attribute	Removal of small proportion of aquifer. Changes to aquifer or unsaturated zone resulting in minor change to water supply springs and wells, river baseflow or ecosystems. Potential low risk of pollution to groundwater from routine run-off. Calculated risk of serious pollution incident >0.5% annually.
Negligible	Results in an impact on attribute but of insufficient magnitude to affect either use or integrity	Calculated risk of serious pollution incident <0.5% annually.

Table 5 Rating of Significant Environmental Impacts at EIS Stage (NRA)

Importance of Attribute	Magnitude of Importance			
	Negligible	Small Adverse	Moderate Adverse	Large Adverse
Extremely High	Imperceptible	Significant	Profound	Profound
Very High	Imperceptible	Significant/moderate	Profound/Significant	Profound
High	Imperceptible	Moderate/Slight	Significant/moderate	Profound/Significant
Medium	Imperceptible	Slight	Moderate	Significant
Low	Imperceptible	Imperceptible	Slight	Slight/Moderate

APPENDIX 7.2
SITE INVESTIGATION REPORT LOGS

Contract No: 5898	Cable Percussion and Rotary Corehole Log	Corehole No: BH01
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Contract:	Kilshane	Easting:	710778.385	Date Started:	03/11/2021
Location:	Kilshane, Ballycoolin, Dublin 15	Northing:	742304.266	Date Completed:	16/11/2021
Client:	Go Power	Elevation:	79.66	Drilled By:	D. McEoin / MEDL
Engineer:	Waterman Moylan	Rig Type:	Dando 150 / Sondeq	Status:	FINAL

Depth (m) Scale	Depth	Stratum Description	Legend	Level (mOD)		Samples	Rock Indices				Backfill
				Scale	Depth		TCR/%	SCR/%	ROD/%	Film	
	0.20	TOPSOIL		79.5	79.48						
	0.5	Brown slightly sandy slightly gravelly silty CLAY with low cobble content.		79.0							
	1.10	Firm grey brown slightly sandy slightly gravelly silty CLAY with high cobble content.		78.5	78.58	N=15 (2,3/4,4,3,4) B / 1.00					
	1.5			78.0							
	2.30	Very stiff black slightly sandy slightly gravelly silty CLAY with high cobble content.		77.5	77.36	N=25 (3,6/5,6,7,7) B / 2.00					
	2.5			77.0							
	3.60	Moderately strong dark grey calcareous MUDSTONE interbedded with very strong grey argillaceous LIMESTONE with occasional fossils, pyrite crystals and calcite veins (up to 5mm). Fresh to slightly weathered.		76.0	76.06	50 (25 for 5mm/50 for 5mm)					
	4.0	<i>Discontinuities - non-intact</i>		75.5		3.60 - 4.60	96	30	0	Ni	
	4.5	<i>Discontinuities - smooth, planar, tight to open, 40-50° dip, occasionally sub-horizontal, clean surfaces</i>		75.0							
	5.0			74.5		4.60 - 5.60	100	100	13	26	
	5.5	<i>Discontinuities - non-intact</i>		74.0							
	6.0			73.5		5.60 - 6.60	96	60	0	Ni	
	6.5	<i>Discontinuities - smooth, planar, tight to open, 40-50° dip, clean surfaces</i>		73.0							28
	6.60	End of Corehole at 6.60m		73.0	73.06						

	Chiselling:		Water Strikes:			Water Details:		Installations:			Backfill:		Remarks:		Legend: B: Bulk D: Disturbed U: Undisturbed ES: Environmental W: Water	
	From:	To:	Time:	Strike:	Rose:	Sealed:	Date:	Hole Depth:	Water Depth:	From:	To:	Pipe:	From:	To:		Type:
	3.50	3.60	01:00				03/11	3.60	Dry				0.00	6.60		Arisings

Contract No: 5898		Cable Percussion and Rotary Corehole Log					Corehole No: BH02				
Contract: Kilshane		Easting: 710828.053		Date Started: 02/11/2021							
Location: Kilshane, Ballycoolin, Dublin 15		Northing: 742278.441		Date Completed: 15/11/2021							
Client: Go Power		Elevation: 78.61		Drilled By: D. McEoin / MEDL							
Engineer: Waterman Moylan		Rig Type: Dando 150 / Sondeq		Status: FINAL							
Depth (m) Scale	Depth	Stratum Description	Legend	Level (mOD)		Samples	Rock Indices				Backfill
				Scale	Depth		TCR%	SCR%	ROD%	Fltm	
	0.20	TOPSOIL		78.5	78.41						
	0.5	Brown slightly sandy slightly gravelly silty CLAY with low cobble content.		78.0							
	0.80	Firm becoming very stiff grey brown slightly sandy slightly gravelly silty CLAY with high cobble content.		77.5	77.61	N=14 (2,2/3,3,4,4) B / 1.00					
	1.0			77.0							
	1.5			76.5		N=39 (4,8/10,9,9,11) B / 2.00					
	2.0			76.0							
	2.5			75.5		50 (7,10/50 for 80mm) B / 3.00					
	3.0			75.0		50 (25 for 5mm/50 for 5mm)					
	3.30	Weak dark grey calcareous MUDSTONE interbedded with moderately strong grey argillaceous LIMESTONE with frequent fossils. Fresh to slightly weathered.		75.31							Ni
	3.5	<i>Discontinuities - non-intact</i>		75.0							25
	4.0	<i>Discontinuities - smooth, planar, tight to open, 40-50° and 70-80° dip, clean surfaces</i>		74.5		3.30 - 4.30	100	85	60		
	4.5	<i>Discontinuities - smooth, planar, tight to open, 40-50° dip, clean with occasional brown and grey staining</i>		74.0							4
	5.0			73.5		4.30 - 5.30	95	95	89		
	5.5	<i>Discontinuities - smooth, planar, tight to open, 40-50° dip, occasionally sub-vertical, clean with occasional brown and grey staining</i>		73.0							12
	6.0			72.5		5.30 - 6.30	95	95	60		
	6.30	End of Corehole at 6.30m		72.31							
	6.5			72.0							

	Chiselling:		Water Strikes:			Water Details:			Installations:			Backfill:			Remarks:		Legend: B: Bulk D: Disturbed U: Undisturbed ES: Environmental W: Water
	From:	To:	Time:	Strike:	Rose:	Sealed:	Date:	Hole Depth:	Water Depth:	From:	To:	Pipe:	From:	To:	Type:	Cable percussive borehole terminated due to obstruction. Rotary core completed to confirm bedrock.	
	3.20	3.30	01:00				02/11	3.30					0.00	6.30	Arisings		

Contract No: 5898	Cable Percussion and Rotary Corehole Log	Corehole No: BH03
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Contract:	Kilshane	Easting:	710874.843	Date Started:	03/11/2021
Location:	Kilshane, Ballycoolin, Dublin 15	Northing:	742327.339	Date Completed:	16/11/2021
Client:	Go Power	Elevation:	78.56	Drilled By:	D. McEoin / MEDL
Engineer:	Waterman Moylan	Rig Type:	Dando 150 / Sondeq	Status:	FINAL

Depth (m) Scale	Depth	Stratum Description	Legend	Level (mOD)		Samples	Rock Indices				Backfill
				Scale	Depth		TCR/%	SCR/%	ROD/%	Film	
	0.20	TOPSOIL		78.5	78.38						
	0.5	Brown slightly sandy slightly gravelly silty CLAY with low cobble content.		78.0							
	1.00	Stiff grey brown slightly sandy slightly gravelly silty CLAY with high cobble content.		77.5	77.56	N=17 (2,3/4,5,4,4) B / 1.00					
	2.30	Obstruction - boulder. Open hole drilling: driller reports returns of sandy gravelly CLAY with cobbles.		76.5	76.26	50 (5,9/50 for 40mm) B / 2.00 50 (25 for 5mm/50 for 5mm)					
	3.70	Moderately strong dark grey calcareous MUDSTONE interbedded with very strong grey argillaceous LIMESTONE with frequent fossils. Fresh to slightly weathered.		74.86	74.86						Ni
	4.0	<small>Discontinuities - non-intact Discontinuities - smooth, planar, tight to open, 40-50° dip, occasionally sub-vertical, clean with occasional brown and grey staining.</small>		74.5		3.70 - 4.70	96	75	14		
	5.0			73.5		4.70 - 5.70	94	85	27		14
	6.0			72.5		5.70 - 6.70	79	79	14		
	6.70	End of Corehole at 6.70m		71.86	71.86						





	Chiselling:		Water Strikes:			Water Details:			Installations:			Backfill:			Remarks:		Legend: B: Bulk D: Disturbed U: Undisturbed ES: Environmental W: Water
	From:	To:	Strike:	Rose:	Sealed:	Date:	Fresh Depth:	Water Depth:	From:	To:	Pipe:	From:	To:	Type:	Cable percussive borehole terminated due to obstruction. Rotary core completed to confirm bedrock.		
	2.20	2.30	01:00			03/11	2.30	Dry				0.00	6.70	Arisings			




Contract No: 5898	Cable Percussion and Rotary Corehole Log	Corehole No: BH04
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Contract: Kilshane	Easting: 710810.778	Date Started: 02/11/2021
Location: Kilshane, Ballycoolin, Dublin 15	Northing: 742357.380	Date Completed: 15/11/2021
Client: Go Power	Elevation: 80.23	Drilled By: D. McEoin / MEDL
Engineer: Waterman Moylan	Rig Type: Dando 150 / Sondeq	Status: FINAL

Depth (m) Scale Depth	Stratum Description	Legend	Level (mOD)		Samples	Rock Indices				Backfill
			Scale	Depth		TCR%	SCR%	ROD%	Flm	
0.30	TOPSOIL		80.0	79.93						
0.5	Firm brown slightly sandy slightly gravelly silty CLAY with low cobble content.		79.5		N=15 (3,3/3,4,4,4) B / 1.00					
1.20	Very stiff grey brown slightly sandy slightly gravelly silty CLAY with high cobble content.		79.0	79.03						
2.0			78.5		N=36 (5,7/8,9,9,10) B / 2.00					
3.0			78.0							
3.50	Weak dark grey calcareous MUDSTONE interbedded with strong grey argillaceous LIMESTONE with occasional fossils and calcite veins (up to 10mm). Fresh to slightly weathered.		77.5		N=50 (5,11/50 for 235mm) B / 3.00					
4.0	<i>Discontinuities - smooth, planar, tight to open, 40-50° dip, occasionally sub-horizontal and sub-vertical dip, clean with occasional brown staining</i>		77.0		50 (25 for 5mm/50 for 5mm)					
4.5	<i>Discontinuities - smooth, planar, tight to open, 40-50° dip, clean with occasional brown and grey staining</i>		76.75		3.50 - 4.50	90	90	33	16	
5.0	<i>Discontinuities - smooth, planar, tight to open, 40-50° dip, occasionally sub-vertical dip, clean with occasional brown and grey staining and calcite veins</i>		76.5		4.50 - 5.50	98	98	60	9	
5.5	<i>Discontinuities - smooth, planar, tight to open, 40-50° dip, occasionally sub-vertical dip, clean with occasional brown and grey staining</i>		76.0		5.50 - 6.50	98	98	35	24	
6.0	<i>Discontinuities - smooth, planar, tight to open, 40-50° dip, clean with occasional brown and grey staining</i>		75.5						6	
6.5	End of Corehole at 6.50m		75.0							
			74.5							
			74.0							
			73.75							
			73.5							

	Chiselling:		Water Strikes:			Water Details:			Installations:			Backfill:			Remarks:		Legend: B: Bulk D: Disturbed U: Undisturbed ES: Environmental W: Water
	From:	To:	Time:	Strike:	Rose:	Sealed:	Date:	Hole Depth:	Water Depth:	From:	To:	Pipe:	From:	To:	Type:	Cable percussive borehole terminated due to obstruction. Rotary core completed to confirm bedrock.	
	3.50	3.50	01:00	3.20	2.80	NS	02/11	3.50	3				0.00	6.50	Arisings		

Contract No: 5898		Trial Pit and Dynamic Probe Log				Trial Pit No: TP01			
Contract: Kilshane		Easting: 710543.292		Date: 02/11/2021					
Location: Kilshane, Ballycoolin, Dublin 15		Northing: 742183.245		Excavator: JCB 3CX					
Client: Go Power		Elevation: 80.62		Logged By: M. Kaliski					
Engineer: Waterman Moylan		Dimensions (LxWxD) (m): 3.90 x 0.60 x 2.60		Scale: 1:25					
Level (mbgl)		Stratum Description	Legend	Level (mOD)		Samples		Probe	Water Strike
Scale	Depth			Scale	Depth	Depth	Type		
	0.20	TOPSOIL		80.5					
	0.5	Firm becoming stiff light grey brown slightly sandy slightly gravelly silty CLAY with high cobble and low boulder content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of limestone. Cobbles and boulders are angular to subrounded of limestone (up to 300mm diameter).		80.42					
	1.0			80.0	1.00	B			
	1.5			79.5					
	2.0			79.0					
	2.00	Stiff becoming very stiff black slightly sandy slightly gravelly silty CLAY with high cobble and low boulder content. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular of limestone. Cobbles and boulders are angular to subangular of limestone (up to 300mm diameter).		78.62					
	2.5			78.5					
	2.60	Pit terminated at 2.60m		78.02	2.50	B			
	3.0			78.0					
	3.5			77.5					
	4.0			77.0					
	4.5			76.5					
				76.0					
		Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:			
		Strength of soil.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental			

Contract No: 5898		Trial Pit and Dynamic Probe Log				Trial Pit No: TP02			
Contract: Kilshane		Easting: 710642.756		Date: 02/11/2021					
Location: Kilshane, Ballycoolin, Dublin 15		Northing: 742332.109		Excavator: JCB 3CX					
Client: Go Power		Elevation: 80.84		Logged By: M. Kaliski					
Engineer: Waterman Moylan		Dimensions (LxWxD) (m): 3.70 x 0.60 x 2.80		Scale: 1:25					
Level (mbgl)		Stratum Description	Legend	Level (mOD)		Samples		Probe	Water Strike
Scale	Depth			Scale	Depth	Depth	Type		
	0.30	TOPSOIL		80.54					
	0.5	Firm becoming stiff light grey brown slightly sandy slightly gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of limestone. Cobbles are angular to subrounded of limestone.		80.5	80.54			1	
				80.0		1.00	B	2	
	1.0			79.5				5	
	1.5			79.0				2	
	2.0			78.74				2	
	2.10			78.5		2.50	B	3	
	2.5			78.0				6	
	2.80			78.04				7	
								7	
								6	
						5			
						5			
						9			
						32			
						20			
						17			
						17			
						15			
						21			
						15			
						16			
						16			
						16			
						18			
						36			
Pit terminated at 2.80m									
		Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:			
		Strength of soil.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental			

Contract No: 5898		Trial Pit and Dynamic Probe Log				Trial Pit No: TP03			
Contract:	Kilshane	Easting:	710596.166	Date:	02/11/2021				
Location:	Kilshane, Ballycoolin, Dublin 15	Northing:	742470.886	Excavator:	JCB 3CX				
Client:	Go Power	Elevation:	82.85	Logged By:	M. Kaliski				
Engineer:	Waterman Moylan	Dimensions (LxWxD) (m):	3.80 x 0.65 x 2.50	Scale:	1:25				
Level (mbgl)	Stratum Description	Legend	Level (mOD)		Samples		Probe	Water Strike	
Scale: Depth			Scale: Depth:	Depth	Type				
0.30	TOPSOIL.		82.55				1		
0.5	Soft becoming firm grey brown slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of limestone. Cobbles are angular to subrounded of limestone.		82.5	82.55	0.50	ES	2		
1.0			82.0		1.00	B	3		
1.5			81.5					4	
2.0			81.0					5	
2.10			80.75					6	
2.5			80.5			2.20	B	7	
2.50			80.35					8	
			80.0					9	
			79.5					10	
			79.0					11	
	78.5					12			
	78.0					13			
						14			
						15			
						16			
						17			
						18			
						19			
						20			
						21			
						22			
						23			
						24			
						25			
						26			
						27			
						28			
						29			
						30			
						31			
						32			
						33			
						34			
						35			
		Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:			
		Strength of soil.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental			

Pit terminated at 2.60m

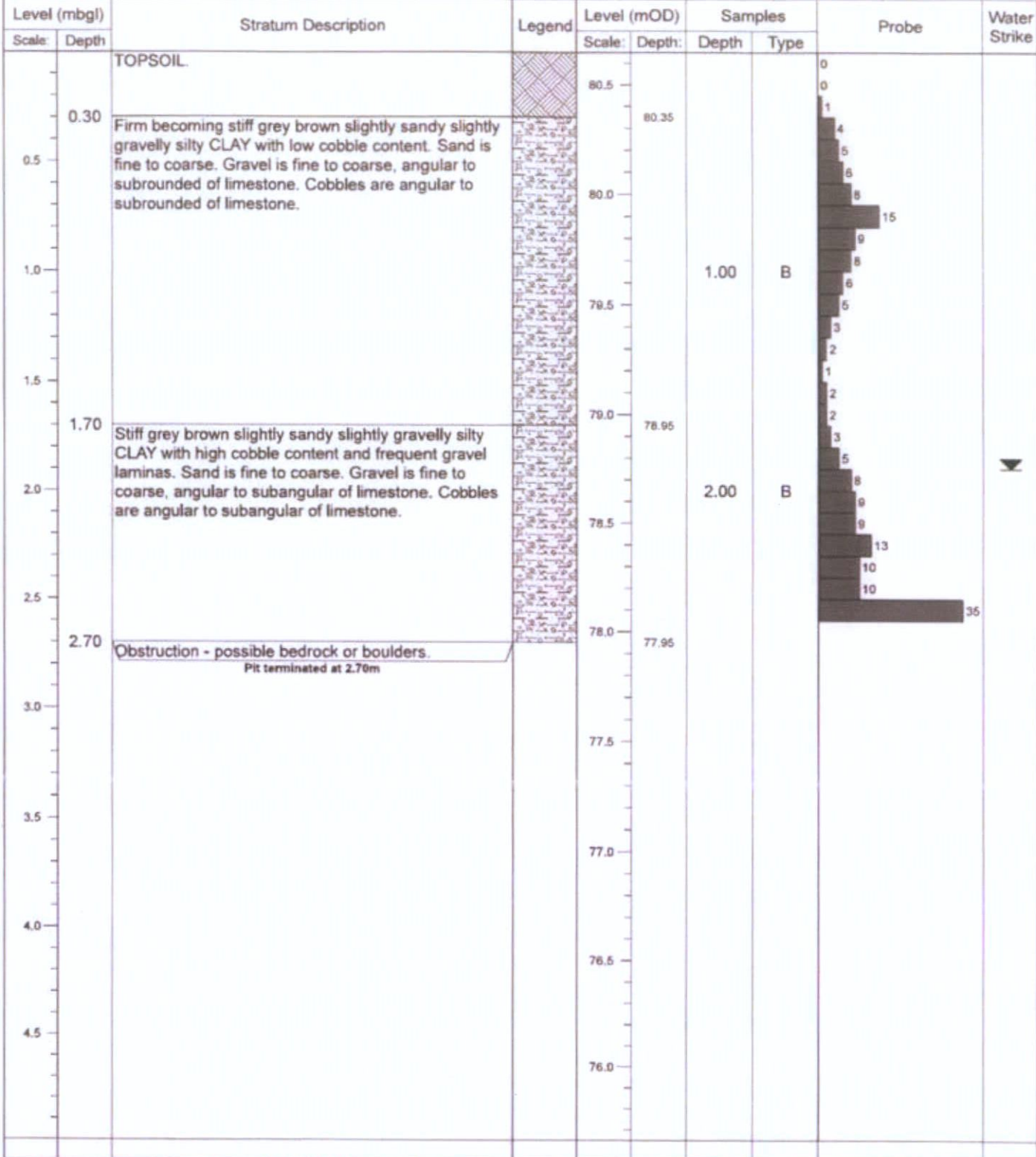
Contract No: 5898		Trial Pit and Dynamic Probe Log				Trial Pit No: TP04		
Contract: Kilshane		Easting: 710684.732		Date: 02/11/2021				
Location: Kilshane, Ballycoolin, Dublin 15		Northing: 742619.034		Excavator: JCB 3CX				
Client: Go Power		Elevation: 83.06		Logged By: M. Kaliski				
Engineer: Waterman Moyian		Dimensions (LxWxD) (m): 4.20 x 0.65 x 2.80		Scale: 1:25				
Level (mbgl) Scale: Depth	Stratum Description	Legend	Level (mOD)		Samples		Probe	Water Strike
			Scale: Depth:	Depth	Depth	Type		
	TOPSOIL		83.0				0	
0.30	Soft becoming firm grey brown slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of limestone. Cobbles are angular to subrounded of limestone.		82.76				1	
0.5			82.5	0.50	ES	2		
0.90	Firm becoming stiff grey brown slightly sandy gravelly silty CLAY with high cobble and low boulder content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of limestone. Cobbles and boulders are angular to subrounded of limestone (up to 400mm diameter).		82.16				3	
1.0			82.0	1.00	B	4		
1.5	Stiff becoming very stiff black slightly sandy slightly gravelly silty CLAY with high cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular of limestone. Cobbles are angular to subangular of limestone.		81.5				5	
1.90			81.0			6		
2.0	Pit terminated at 2.80m		81.16				7	
2.5			80.5	2.50	B	8		
2.80			80.26				9	
3.0			80.0				10	
3.5			79.5				11	
4.0			79.0				12	
4.5			78.5				13	
							14	
							15	
							16	
							35	



Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Strength of soil.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental




Contract No: 5898	<h1 style="margin: 0;">Trial Pit and Dynamic Probe Log</h1>	Trial Pit No: TP05
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Contract:	Kilshane	Easting:	710828.477	Date:	02/11/2021
Location:	Kilshane, Ballycoolin, Dublin 15	Northing:	742750.035	Excavator:	JCB 3CX
Client:	Go Power	Elevation:	80.65	Logged By:	M. Kaliski
Engineer:	Waterman Moylan	Dimensions (LxWxD) (m):	3.50 x 0.60 x 2.70	Scale:	1:25



	Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
	Obstruction - possible bedrock or boulders.	Pit walls stable.	1.90 Seepage	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 5898		Trial Pit and Dynamic Probe Log				Trial Pit No: TP06			
Contract: Kilshane		Easting: 710796.998		Date: 02/11/2021					
Location: Kilshane, Ballycoolin, Dublin 15		Northing: 742609.299		Excavator: JCB 3CX					
Client: Go Power		Elevation: 81.39		Logged By: M. Kaliski					
Engineer: Waterman Moylan		Dimensions (LxWxD) (m): 3.80 x 0.60 x 2.40		Scale: 1:25					
Level (mbgl)		Stratum Description	Legend	Level (mOD)		Samples		Probe	Water Strike
Scale:	Depth			Scale:	Depth:	Depth	Type		
		TOPSOIL		81.09					
	0.30	Soft becoming firm grey brown slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of limestone. Cobbles are angular to subrounded of limestone.		81.0					
	0.60	Firm becoming stiff grey brown slightly sandy gravelly silty CLAY with high cobble and low boulder content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of limestone. Cobbles and boulders are angular to subrounded of limestone (up to 300mm diameter).		80.79					
	1.00			80.5	1.00	B	10		
	1.40	Stiff becoming very stiff grey brown slightly sandy slightly gravelly silty CLAY with high cobble and low boulder content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of limestone. Cobbles and boulders are angular to subrounded of limestone (up to 300mm diameter).		80.0			12		
	1.50			79.99			8		
	2.00			79.5	2.00	B	10		
	2.30			79.09			9		
	2.40	Very stiff black slightly sandy slightly gravelly silty CLAY with high cobble and low boulder content. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular of limestone. Cobbles and boulders are angular to subangular of limestone (up to 300mm diameter). Obstruction - possible bedrock or boulders. Pit terminated at 2.40m		79.0			16		
	3.00			78.5			20		
	3.50			78.0			22		
	4.00			77.5			35		
	4.50			77.0					
				76.5					
		Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:		Key:		
		Obstruction -rock or boulders.	Pit walls stable.	Dry	-		B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental		

Contract No: 5898		Trial Pit and Dynamic Probe Log				Trial Pit No: TP07			
Contract: Kilshane		Easting: 710786.841		Date: 02/11/2021					
Location: Kilshane, Ballycoolin, Dublin 15		Northing: 742471.531		Excavator: JCB 3CX					
Client: Go Power		Elevation: 80.53		Logged By: M. Kaliski					
Engineer: Waterman Moylan		Dimensions (LxWxD) (m): 3.40 x 0.60 x 2.50		Scale: 1:25					
Level (mbgl)		Stratum Description	Legend	Level (mOD)		Samples		Probe	Water Strike
Scale	Depth			Scale	Depth	Depth	Type		
		TOPSOIL							
	0.30	Soft becoming firm light grey brown slightly sandy slightly gravelly silty CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of limestone. Cobbles are angular to subrounded of limestone.		80.23				1	
	0.5			80.0	0.50	ES		1	
	1.0			79.5	1.00	B		2	
	1.5			79.0				2	
	2.0			78.5	2.20	B		3	
	2.30			78.23				3	
	2.5			78.0				6	
				77.5				6	
				77.0				7	
				76.5				6	
		76.0				7			
						8			
						12			
						14			
						14			
						35			
		Pit terminated at 2.50m							
		Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:			
		Pit wall instability.	Pit walls unstable forcing completion.	2.30 Medium	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental			

Contract No: 5898		Trial Pit and Dynamic Probe Log				Trial Pit No: TP08				
Contract: Kilshane		Easting: 710953.440		Date: 02/11/2021						
Location: Kilshane, Ballycoolin, Dublin 15		Northing: 742658.661		Excavator: JCB 3CX						
Client: Go Power		Elevation: 78.59		Logged By: M. Kaliski						
Engineer: Waterman Moylan		Dimensions (LxWxD) (m): 4.70 x 0.60 x 2.00		Scale: 1:25						
Level (mbgl)		Stratum Description	Legend	Level (mOD)		Samples		Probe	Water Strike	
Scale	Depth			Scale	Depth	Depth	Type			
		TOPSOIL		78.5						
0.30		Firm becoming stiff grey brown slightly sandy gravelly silty CLAY with high cobble and low boulder content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of limestone. Cobbles and boulders are angular to subrounded of limestone (up to 400mm diameter).		78.29						
0.5				78.0						
1.0				77.5	1.00	B				
1.5				77.0						
2.0	2.00			76.59	2.00	B				
2.5				76.0						
3.0				75.5						
3.5				75.0						
4.0				74.5						
4.5				74.0						
		Obstruction - possible bedrock or boulders. Pit terminated at 2.00m								



Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:
Obstruction - possible bedrock or boulders.	Pit walls stable.	Dry	-	B = Bulk disturbed D = Small disturbed CBR = Undisturbed CBR ES = Environmental

Contract No: 5898		Trial Pit and Dynamic Probe Log				Trial Pit No: TP09			
Contract: Kilshane		Easting: 710939.386		Date: 02/11/2021					
Location: Kilshane, Ballycoolin, Dublin 15		Northing: 742368.549		Excavator: JCB 3CX					
Client: Go Power		Elevation: 78.30		Logged By: M. Kaliski					
Engineer: Waterman Moylan		Dimensions (LxWxD) (m): 5.10 x 0.60 x 2.00		Scale: 1:25					
Level (mbgl)		Stratum Description	Legend	Level (mOD)		Samples		Probe	Water Strike
Scale:	Depth			Scale:	Depth:	Depth	Type		
		TOPSOIL							
	0.30	Soft light brown slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of limestone. Cobbles are angular to subrounded of limestone.		78.0	78.00				
	0.5					0.50	ES		
	0.60	Firm grey brown slightly sandy gravelly silty CLAY with high cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of limestone. Cobbles are angular to subrounded of limestone.		77.5	77.70				
	1.0					1.00	B		
	1.20	Firm becoming stiff grey brown slightly sandy gravelly silty CLAY with high cobble and medium boulder content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of limestone. Cobbles and boulders are angular to subrounded of limestone (up to 400mm diameter).		77.0	77.10				
	1.5								
	2.0	Obstruction - possible bedrock or boulders. Pit terminated at 2.00m		76.5	76.30	1.80	B		
	2.5			76.0					
	3.0			75.5					
	3.5			75.0					
	4.0			74.5					
	4.5			74.0					
				73.5					
		Termination:	Pit Wall Stability:	Groundwater Rate:	Remarks:	Key:			
		Obstruction - possible bedrock or boulders.	Pit walls stable.	Dry	-	B = Bulk disturbed	D = Small disturbed	CBR = Undisturbed CBR	ES = Environmental