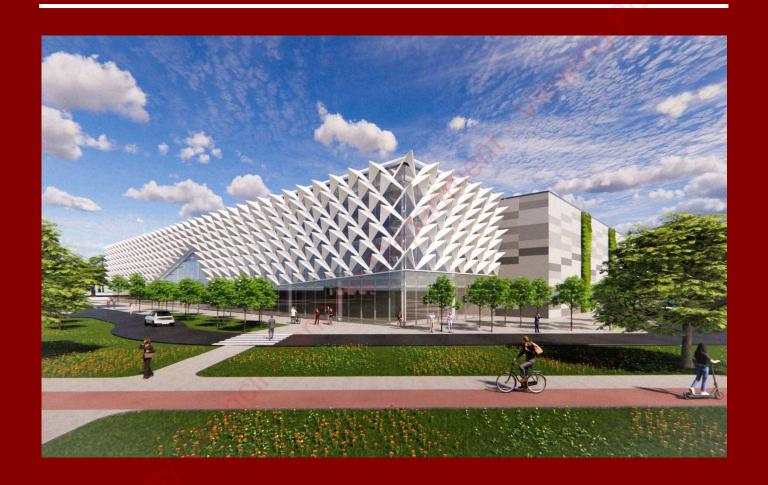


ENVIRONMENTAL IMPACT ASSESSMENT REPORT VOLUME 2 - APPENDICES

KILDARE INNOVATION CAMPUS AT BARNHALL ROAD, LEIXLIP, COUNTY KILDARE.



PREPARED FOR:

THE DAVY PLATFORM ICAV FOR AND ON BEHALF OF THE LIFFEY SUB-FUND

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SDZ22A/0005 South Dublin under construction SDZ19A/0004 South Dublin under construction sparting and storage) of residential development to be constructed in 3 blocks ranging in height from 2 to 9 storeys; There is a total of 436 apartment SDZ19A/0004 South Dublin under construction GFA) in a mixture of terraced, semi-detached and detached houses, duplexes and apartments as follows; 119 apartment units shall be accommodated in 4 blocks of 2-5 storeys; Block 01 (4 storey) to consist of 2 SDZ21A/0003 South Dublin under construction Residential development (12,096sq.m) comprises of 128 dwellings (46 one bed apartments, 70 two bed apartments, 6 three bed duplex units and 6 four bed houses) arranged over 4 blocks as follows; Block A (4,049sq.m) contains 43 apartments, ancillary accomm	Reg. Ref.	Planning Authority	Status	Development Description
construction consists of 37,402sq.m (gross floor area including car parking and storage) of residential development to be constructed in 3 blocks ranging in height from 2 to 9 storeys; There is a total of 436 apartment SDZ19A/0004 South Dublin under construction GFA) in a mixture of terraced, semi-detached and detached houses, duplexes and apartments as follows; 119 apartment units shall be accommodated in 4 blocks of 2-5 storeys; Block 01 (4 storey) to consist of 2 SDZ21A/0003 South Dublin under construction Residential development (12,096sq.m) comprises of 128 dwellings (46 one bed apartments, 70 two bed apartments, 6 three bed duplex units and 6 four bed houses) arranged over 4 blocks as follows; Block A (4,049sq.m) contains 43 apartments,				
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SDZ21A/0003 South Dublin under construction SDZ21A/0003 South Dublin under construction Residential development (12,096sq.m) comprises of 128 dwellings (46 one bed apartments, 70 two bed apartments, 6 three bed duplex units and 6 four bed houses) arranged over 4 blocks as follows; Block A (4,049sq.m) contains 43 apartments,				i ewing Pully
construction of 128 dwellings (46 one bed apartments, 70 two bed apartments, 6 three bed duplex units and 6 four bed houses) arranged over 4 blocks as follows; Block A (4,049sq.m) contains 43 apartments,	SDZ19A/0004	South Dublin		GFA) in a mixture of terraced, semi-detached and detached houses, duplexes and apartments as follows; 119 apartment units shall be accommodated in 4 blocks of 2-5 storeys; Block 01
construction of 128 dwellings (46 one bed apartments, 70 two bed apartments, 6 three bed duplex units and 6 four bed houses) arranged over 4 blocks as follows; Block A (4,049sq.m) contains 43 apartments,			aning	
		South Dublin		of 128 dwellings (46 one bed apartments, 70 two bed apartments, 6 three bed duplex units and 6 four bed houses) arranged over 4 blocks as follows; Block A (4,049sq.m) contains 43 apartments,

SDZ20A/0008	South Dublin	under construction	Construction of Phase One of the Adamstown District Centre; proposed development is a mixed use commercial and residential development of c.36,621sq.m (gross floor area) in total (excluding the multi-storey car park) to be constructed in buildings rangin	Only
			JIROS VIII NO SILI PURINGINA	
SDZ21A/0007	South Dublin	construction	Phase Two of the Adamstown District Centre and consists of 17,764sq.m (gross floor area, including car park and storage) of residential development to be constructed in 2 buildings ranging in height from 4 to 9 storeys; a total of 185 apartments, compris	
SD20A/0147	South Dublin	construction	Construction of P3 Phase II expansion of the existing P3 biopharma production facility which includes the construction of a circa 2,155sq.m, two storey biopharma production facility to a maximum height of circa 14.9m to be located to the south of the exi	
Con				
	SDZ21A/0007 SD20A/0147	SDZ21A/0007 South Dublin SD20A/0147 South Dublin	SDZ21A/0007 South Dublin under construction SD20A/0147 South Dublin under construction	SDZ21A/0007 South Dublin under construction be constructed in buildings rangin Phase Two of the Adamstown District Centre and consists of 17,764sq.m (gross floor area, including car park and storage) of residential development to be constructed in 2 buildings rangin in height from 4 to 9 storeys; a total of 185 apartments, compris SD20A/0147 South Dublin under construction Construction of P3 Phase II expansion of the existing P3 biopharma production facility which includes the construction of a circa 2,155sq.m, two storey biopharma production facility to a maximum height of circa 14.9m to be located to the south of the exi

	SDZ21A/0023	South Dublin	not under construction	455 residential units (including a mixture of 2 and 3 storey semi-detached and terraced houses, and duplex units and apartments in 3 and 4 storey blocks), new internal roads and footpaths, site access, public open space, car parking, cycle stores, landsc	S ONLY!
	SD20A/0058	South Dublin	not under construction	Demolition of the existing single storey house of 'Little Acre' and its associated garage and other buildings; demolition of the single storey stable building on the overall site; construction of a gas powered Power Plant with all its associated elements	
	SD16A/0398	South Dublin	not under	Amendments to previously granted planning	
			construction	permission, Reg. Ref. SD15A/0061, consisting of the following: reduction of capacity of the plant from 115MW to 96MW; removal of 1 duel fired engine; alteration to the operational hours of the facility from 12 ho	
Kildare	Congress				

SD15A/0061	South Dublin	not under construction	10 year permission for the construction of a 115MW Peaker Power Plant in a single storey building with a mezzanine level office and electrical control area. This building has a platform height of 17.52m, 7 shafts with a height of 20.74m and 2 stacks with	, Oç
SD18A/0323	South Dublin	not under construction	Construction of a two storey data centre with three storey central service spine (7,246sq.m) with plant at roof level, that includes a reception area (274.4sq.m), shipping area (264.3sq.m) and three data halls (each 582.5sq.m - total 1,747.5sq.m) plus se	
SDZ21A/0014	South Dublin	not under construction	Development of 227 dwellings (24,513.8sq.m gross floor area); 95 3-bed, 2 storey terraced houses and associated gardens; 28 4-bed, 3 storey terraced houses and associated gardens; 48 3-bed, 2 storey duplex apartments over 48 2-bed apartments (3 storey bu	
idale Conity				

SD22A/0303	South Dublin	not under construction	Construction of a Volatile Organic Compound (VOC) Abatement system comprising of a thermal oxidiser (TO), associated plant equipment and scrubbers positioned on a bunded concrete plinth with a maximum single stack height of 12m along with two access plat	Only
			ONIDOS	
SDZ22A/0007	South Dublin	not under construction	Comprising Phase 1 of the Adamstown Boulevard Development Area and consists of 38,768.21sq.m. of residential development to be constructed in a mix of housing and apartment units, with 423 residential units proposed in total (of which 166 units are subje	
SDZ22A/0006	South Dublin	not under construction	Construction of 352 residential units (terraced, semidetached and detached) comprising 253 two storey houses (15 two bed units and 238 three bed units ranging in size from c. 86sq.m to c. 118sq.m) and 99 three storey houses (18 three bed units and 81 f	

72 South Dublin	not under construction	Demolition of existing workshop and (defunct) Activated Carbon Building adjacent the old/northern Treatment Plant Building;	
		construction of a Sulphuric Acid Storage and Dosing Facility Building (single storey up to approximately 8.7 metres in height) adj	Only
		Olife	
017 South Dublin	not under construction	235 dwellings (up to a maximum of c.23,858.7sq.m GFA) in a mixture of terraced houses and apartments as follows: 159 houses shall consist of 109 2 storey, 3-bedroom houses; 7 3 storey, 3-bedroom houses and 43 3 storey, 4 bedroom houses; 76 apartment unit	
	not under construction	Construction of two single storey data centres with associated office and service areas; and three gas powered generation plant buildings with an overall gross floor area of 24,624sq.m that will comprise of the following: Demolition of abandoned single s	
		construction 42 South Dublin not under	Facility Building (single storey up to approximately 8.7 metres in height) adj O17 South Dublin O18

	SDZ20A/0020	South Dublin	not under construction	Demolition of 3 existing dwelling houses in addition to 9 farm structures and outbuildings and the construction of 113 residential units comprising 70 two storey dwelling houses (comprising 61 three bed units and 9 four bed units ranging in size from 109	3 OUTA
	FW19A/0073	Fingal	not under construction	Erection of a 70 Kw 600 m2 ground-mounted photovoltaic array adjacent	
	161153	Kildare	under construction	residential development of 214 no. dwellings, a 2-storey crèche (552m2) and all associated and ancillary site development works including link road. The housing breakdown is as follows; 21 no. House Type A (4 bed, 2.5 storey, 174m2); 28 no. House Type	
Kildare					

161229 (amended under reg. ref. 1991)	Kildare	under construction	10 year permission for development comprising: Revised design and configuration of previously permitted manufacturing building Planning Reg Ref 12/435 – PL09.241071, over four levels (parapet height of 31m) with a total floor area of 88,740sqm includin	
18233	Kildare	under construction	a new wastewater pumping station, control building, change of use of the existing balance tank western cell to a pumping station wet well, additional mechanical and electrical plant equipment, landscaping, internal access road, and hardstanding area an	
181481	Kildare	under construction	the construction of 58 No. residential dwellings comprised of 4 No. 4 bed detached houses (Type A and A1); 14 No. 3 bed semi-detached houses (Type B); 10 No. 3 bed terraced houses (Type C and C1); 4 No. 2 bed terraced houses (Type D); 2 No. 1 bed bungalo	
ildare				

ĺ	191282	Kildare	under	the construction of 75 no. residential dwellings	
	131202	Madre	construction	consisting of 51no. two storey houses; 12 no. 2 bed own door duplex units contained in a three-storey block (Block 1) and 12 no. own door/duplex	
				apartment units (6 no. 2 bed duplex units and 6 no. 1 bed ap	-114
				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	S)
				Ollibos	
	15565	Kildare	not under construction	The proposed addition of 2 No. bunded chemical tanks sized 3 metres diameter and 18.2 metres high including steel framework and its associated tanker parking to the rear of FAB 24 and the addition of 1 No. exhaust stack on roof of FAB 24,	
				1.5 metres diam	
	16777	Kildare	not under construction	the development of a solar PV panel array with an export capacity of 7.8MW comprising approximately 30, 100 photovoltaic panels on ground mounted frames within a site area of 12.10 hectares, 6 no. single storey MV substations, 1 no. single storey DSO sub	
	(tis.	zouncil Pl			
	COM				
Kildare					

18250	Kildare	not under construction	a 10 year permission (to construct development) for a solar farm comprising: the installation of photovoltaic panels on ground mounted frames in rows on a site of C.47.44 hectares, a single storey onsite 38kV substation with compound, with 2 no single st
			.,,,0585
19889	Kildare	not under construction	the replacement of the existing railway sleeper embankment structure with new masonry block work embankment structure along 100 linear metres approximately of river bank frontage to the river Liffey/Leixlip Reservoir at the existing (0.812 hectare) club
2048	Kildare	not under construction	18 no. warehouse/light industrial units with ancillary office and staff facilities in 1 no. block totalling 1,972 sq. metres. The proposed development includes connections to existing services at M4 Interchange Park, signs, internal roads, carparking, bi

				_
308585	SID - An Bord Pleanala	under construction	Clutterland 110kV GIS Substation building and 2 underground single circuit transmission lines	S OULA
309146	SID - An Bord Pleanala	under construction	2 no. 110kV transmission lines and a 110kV Gas Insulated Switchgear (GIS) substation	
309951	SID - An Bord Pleanala	Built	Provision of two 110kV transmission lines. Connecting Coolderrig 110kV GIS Substation to Grange Castle - Kilmahud circuits.	
314232	SID - An Bord Pleanala	not under construction	DART+ West Railway Order - Dublin City to Maynooth and M3 Parkway	

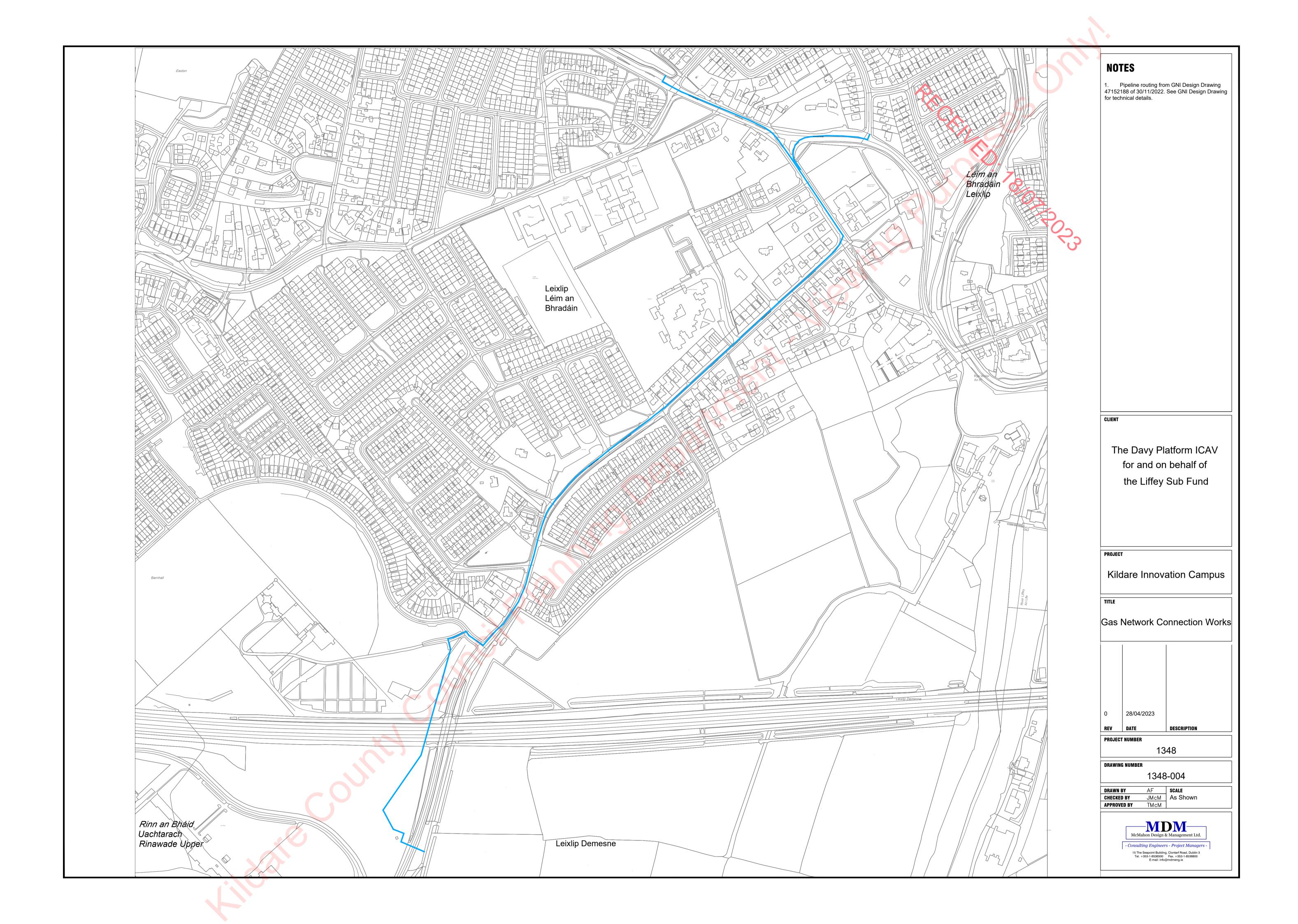
314567	SID - An Bord Pleanala	not under construction	Underground 110kV transmission line connections between the permitted Kishoge 110kV GIS substation and the permitted Aungierstown - Castlebaggot underground 110kV transmission line.
			78/07/2023
314942	SID - An Bord	not under	BusConnects Lucan to City Centre Core Bus
314542	Pleanala	construction	Corridor Scheme
			enti
304862	SID - An Bord Pleanala	under construction	220 kV Gas Insulated Switchgear substation, 2 no. 220 kV underground circuits forming a loop- in/loop-out to the existing Maynooth-Woodland 220 kV Overhead Line and 6 no. 220 kV underground circuits and associated low voltage and communication underground cabling connecting the proposed substation with electricity transformers within the Intel Ireland Facility, and all associated and ancillary site development works.
308130	SID - An Bord Pleanala	not under construction	220kV substation with 2 underground transmission cables
COUNTY			

,			7		1
	300606	SHD - An Bord Pleanala	under construction	450 no. residential units (350 no. houses, 100 no. apartments), childcare facility, new roundabout on the Celbridge Road (R404) and associated road alignment to facilitate vehicular access with revised	
				entrance arrangement to the Wonderful Barn Complex (Protected Structure), and incorporating	1
				landscape features and signage to the Wonderful Barn Complex (Protected Structure); associated	O'CI)
				internal roads, pedestrian and cycle paths and	S
				linkages; open space and all associated site and development works.	
	303295	SHD - An Bord Pleanala	under construction	251 no. residential units (167 no. houses and 84 no. apartments), creche and all associated site works.	
		Pledildid	Construction	www.oakleymanor.ie	
				iie viino	
				7,	
	306504	SHD - An Bord Pleanala	under construction	Demolition of existing structure, construction of 372 no. residential units (218 no. houses, 154 no. apartments), childcare facility and associated site	
				works.	
	307100	SHD - An Bord	not under	467 no. residential units (199 no. houses, 216 no.	
		Pleanala	construction	apartments, 52 no. duplexes), childcare facility and associated site works.	
	(CONIL			
	307223	SHD - An Bord Pleanala	not under construction	Demolition of existing buildings, construction of 239 no. residential units (136 no. houses, 103 no. apartments), creche and associated site works.	
40					
119.91					

	310865	SHD - An Bord Pleanala	under construction	194 no. residential units (119 no. houses, 75 no. apartments). creche and associated site works.
	305343	SHD - An Bord Pleanala	under construction	Demolition of 5 no. structures, construction of 406 no. residential units (281 no. houses, 125 no. apartments) creche and associated site works.
, Xar	Sconnity	CouncilP	anning	Sepatiment."
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Little County Council Pranting Department. Viewing Purposes of Wildre County Council Pranting Department.

APPENDIX 7.1

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TRAN NRA CRITERIA FOR RATING THE MAGNITUDE AND SIGNIFICANCE OF IMPACTS AT EIA

Impact Ratings and Assessment Criteria (Soils, Geology and Hydrogeology)

The NRA criteria for rating the magnitude and significance of impacts at ElA stage on the geological related attributes are also relevant in determining impact assessment and area presented in Table 2 below.

Table 1 Criteria for rating site importance of Geological Features (NRA)				
Importance	Criteria	Typical Example		
Very High	Attribute has a high quality,	Geological feature rare on a		
	significance or value on a regional	regional or national scale (NHA)		
	or national scale	Large existing quarry or pit		
	Degree or extent of soil	Proven economically extractable mineral resource		
	contamination is significant on a national or regional scale	extractable milleral resource		
	Volume of peat and/or soft organic			
	soil underlying route is significant			
	on a national or regional scale.			
High	Attribute has a high quality,	Contaminated soil on site with		
	significance or value on a local	previous heavy industrial		
	scale. Degree or extent of soil	usage		
	contamination is significant on a	Large recent landfill site for		
	local scale. Volume of peat	mixed wastes		
	and/or soft organic soil	Geological feature of high value		
	underlying route is significant	on a local scale (County Geological Site)		
	on a local scale.	Well drained and/or high fertility		
		soils		
		Moderately sized existing		
		quarry or pit		
		Marginally economic		
		extractable mineral resource		
Medium	Attribute has a medium quality,	Contaminated soil on site with		
	significance or value on a local	previous light industrial usage		
	scale	Small recent landfill site for		
	Degree or extent of soil	mixed wastes		
	contamination is moderate on a	Moderately drained and/or		
	local scale	moderate fertility soils		
	Volume of peat and/or soft organic	Small existing quarry or pit		
	soil underlying route is moderate on	Sub-economic extractable		
	a local scale	mineral resource		
Low	Attribute has a low quality,	Large historical and/or recent		
	significance or value on a local scale	site for construction and demolition wastes.		
	Degree or extent of soil	Small historical and/or recent		
	contamination is minor on a local	landfill site for construction and		
	scale.	demolition wastes.		
	Volume of peat and/or soft organic	Poorly drained and/or low		
	soil underlying route is small on a	fertility soils.		
$C_{\mathcal{S}}$	local scale	Uneconomically extractable		
		mineral resource.		

Table 2 Criteria for rating impact magnitude 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	
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	
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	
Negligible	Results in an impact on attribute but of insufficient magnitude to affect either use or integrity		
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	

The NRA criteria for estimation of the importance of hydrogeological attributes at the site during the EIA stage are summarised below.

Table 3 Criteria for rating Site Attributes - Estimation of Importance of Hydrogeology Attributes (NRA)

Magnitude of Impact	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
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

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

	T	
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 runoff. 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 runoff. 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			
	Neglible	Small Adverse	Moderate Adverse	Large Adverse
Extremely	Imperceptible	Significant	Profound	Profound
High				
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

Table 6 Criteria for rating impact magnitude at EIS stage – Estimation of magnitude of

impact on hydrology attributes (NRA, 2009)

impact on hydrology attributes (NRA, 2009)		
Magnitude of Impact	Criteria	Typical Examples
Large Adverse	Results in loss of attribute and/ or quality and integrity of attribute	Loss or extensive change to a water body or water dependent habitat
Moderate Adverse	Results in impact on integrity of attribute or loss of part of attribute	Calculated risk of serious pollution incident >1% annually2
Small Adverse	Results in minor impact on integrity of attribute or loss of small part of attribute	Increase in predicted peak flood level >10mm1
Negligible	Results in an impact on attribute but of insufficient magnitude to affect either use or integrity	Negligible change in predicted peak flood level1
Minor Beneficial	Results in minor improvement of attribute quality	Calculated reduction in pollution risk of 50% or more where existing risk is <1% annually2
Moderate Beneficial	Results in moderate improvement of attribute quality	Calculated reduction in pollution risk of 50% or more where existing risk is >1% annually2
Major Beneficial	Results in major improvement of attribute quality	Reduction in predicted peak flood level >100mm1

Additional examples are provided in the NRA Guidance Document

Source: 'Guidelines on Procedures for Assessment and Treatment of Geology, Hydrology and Hydrogeology for National Road Schemes' by the National Roads Authority (NRA, 2009)

¹ Refer to Annex 1, Methods E and F, Annex 1 of HA216/06

¹ Refer to Appendix B3 / Annex 1, Method D, Annex 1 of HA216/06

Table 7 Criteria for Rating Impact Significance of Hydrological Attributes (NRA, 2009)

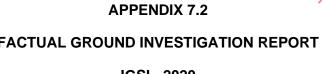
Table 7	Criteria for Rating Impact Significance of Hydrological Attributes (NRA, 2009)		
Importance	Criteria	Typical Examples	
Extremely High	Attribute has a high quality or value on an international scale	River, wetland or surface water body ecosystem protected by EU legislation e.g. 'European sites' designated under the Habitats Regulations or 'Salmonid waters' designated pursuant to the European Communities (Quality of Salmonid Waters) Regulations, 1988.	
Very High	Attribute has a high quality or value on a regional or national scale	River, wetland or surface water body ecosystem protected by national legislation – NHA status Regionally important potable water source supplying >2500 homes Quality Class A (Biotic Index Q4, Q5) Flood plain protecting more than 50 residential or commercial properties from flooding Nationally important amenity site for wide range of leisure activities	
High	Attribute has a high quality or value on a local scale	Salmon fishery Locally important potable water source supplying >1000 homes Quality Class B (Biotic Index Q3-4) Flood plain protecting between 5 and 50 residential or commercial properties from flooding Locally important amenity site for wide range of leisure activities	
Medium	Attribute has a medium quality or value on a local scale	Coarse fishery Local potable water source supplying >50 homes Quality Class C (Biotic Index Q3, Q2- 3) Flood plain protecting between 1 and 5 residential or commercial properties from flooding	
Low	Attribute has a low quality or value on a local scale	Locally important amenity site for small range of leisure activities Local potable water source supplying <50 homes Quality Class D (Biotic Index Q2, Q1) Flood plain protecting 1 residential or commercial property from flooding Amenity site used by small numbers of local people	

Source: 'Guidelines on Procedures for Assessment and Treatment of Geology, Hydrology and Hydrogeology for National Road Schemes' by the National Roads Authority (NRA, 2009)



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