

GLOSSARY OF TERMS

$\mu\text{g}/\text{m}^3$	Micrograms per cubic meter.
AADT	Annual Average Daily Traffic.
AADT	Average annual daily traffic - the bi-direction traffic count representing an average 24-hour day in a year.
Aeolian sands	Sand carried by the wind.
Aeolian transport	Movement of sand in the wind.
Ambient Air	The air outside buildings and structures.
Ambient Air	The air outside buildings and structures.
Ambient Noise	The existing noise levels before an operation starts. This can be considered as background noise.
Anaerobic digestion	A series of processes, commonly used in waste management systems, in which micro-organisms break down biodegradable material in the absence of oxygen.
Annelids	Marine worms.
Anthropogenic	Any effect, process, object or material that is derived from human activity, as opposed to that which occurs naturally.
Appropriate Assessment	The assessment of plans and projects significantly affecting Natura 2000 sites under the provisions of Articles 6(3) and (4) of the Habitats Directive 92/43/EEC.
AQS	Air Quality Standards
Aquifer	An underground layer of water-bearing permeable rock or unconsolidated materials (gravel, sand, silt or clay) from which groundwater can be usefully extracted using a water well.
Aquitards	A zone within the earth which restricts the flow of groundwater from one aquifer to another.
Archaeological Heritage	The finite, non-renewable physical and material resource. Archaeology is the study of past human societies through their material remains and artefactual assemblages. The study of archaeological remains increases an understanding and knowledge of the structure and culture of past and ancient societies that are not recorded by any other means.

Archaeological Stratigraphy	Identifiable layers of archaeological material, including deposits, cuts or features.
Archaeological Zones / Zones	Defined Areas of Archaeological Interest
Architectural Heritage	Structures, buildings, traditional and designed, and groups of buildings including streetscapes and urban vistas, which are of historical, archaeological, artistic, engineering, scientific, social or technical interest, together with their setting, attendant grounds, fixtures, fittings and contents.
Aromatic Compounds	Organic or carbon compounds containing aromatic rings e.g. benzene.
Attenuation	System whereby water is held or stored. Beaufort Land Scale System for estimating wind strengths without the use of instruments. Originally developed in 1805 by Sir Francis Beaufort it is also used to tie together various components of weather (wind strength, sea state, observable effects) in a unified picture.
Beaufort Range	Scale or range used to describe hourly / average wind speeds.
Benthic Fauna	Sea bed dwelling marine animal life
Biodegradable	The process by which organic substances are broken down, either aerobically (with oxygen) or anaerobically (without oxygen) by the enzymes produced by living organisms.
Biodiversity	The number, variety and variability of living organisms in a particular habitat.
Bivalves	Shellfish
Botanical	An area of study concerning plants.
Bronze Age	An archaeological period c.2400–500BC. A time of technological, social and economic development and change in Ireland.
BRT	Bus Rapid Transit - a broad term given to a variety of transportation systems that, through improvements to infrastructure, vehicles and scheduling, attempt to use buses to provide a service that is of a higher quality than an ordinary bus.
BS	British Standard.

Built Heritage	Historic buildings and structure with value in terms of landscape character and amenity.
C&D Waste	Construction and Demolition Waste.
CO ²	Carbon Dioxide.
CAL3QHCR	United States Environmental Protection Agency approved air quality dispersion model for the simulation of traffic pollutant dispersion.
CALPUFF	United States Environmental Protection Agency approved Gaussian puff system for the simulation of atmospheric pollutant dispersion.
Carbon Emissions	Expression of amount of carbon emitted from a specific source.
Carboniferous age	Geological period extending between the end of the Devonian period c.357-361 million years ago to the beginning of the Permian period c. 298-299 million years ago.
Cartography / Cartographic	The study and practice of making accurate visual records of the earth's surface. Also known as map making.
Catchment Area	The area served by a particular form of retail provision.
Cementitious	Like or relevant to or having the properties of cement or of relating to a chemical precipitate, especially of carbonates, having the characteristics of cement.
CIRIA	Construction Industry Research and Information Association.
CO	Carbon Monoxide.
Combined Trip	A trip with two or more purposes to the same destination, or with two or more destinations within one development.
Comparison Goods	Clothing & footwear, furniture, furnishings and household equipment (excluding non-durable household goods), medical and pharmaceutical products, therapeutic appliances and equipment, educational and recreation equipment and accessories, books, newspapers and magazines, goods for personal care and goods not elsewhere classified.
Congested	A junction or link is considered to be congested when traffic flows are near the estimated capacity of the junction or link.

Conservation Areas	Specific areas which are designated and afforded specific legislative protection in recognition of their unique contribution and importance to the heritage of an area.
Construction Phase	The phase / period when the development proposed within the Planning Scheme is being constructed.
Construction Traffic	Traffic associated with construction activity on-site, including the transport and delivery of construction plant, materials and equipment to the site and the removal of surplus materials from the site. Construction traffic also includes construction workforce traffic to and from the site during construction.
Management Plan	It is a construction management tool that is put into operation during construction on-site. It sets out details on the movement and management of plant and materials traffic. It also describes how movement of construction workforce onto and off the site will be organised.
Convenience Goods	Food, alcoholic and non-alcoholic beverages, tobacco, non-durable household goods.
Critical mass	The amount necessary or sufficient to have a significant effect or to achieve a result.
Cyanide Compounds	Chemical compounds containing cyanide.
DART	Dublin Area Rapid Transit - a suburban rail line operated by Iarnród Éireann.
dB(A)	Decibel - a measurement of sound. The "A" suffix denotes the fact that the sound levels have been "A-weighted" in order to account for the non-linear nature of human hearing.
DCC	Dublin City Council
DCDP	Dublin City Development Plan 2005 – 2011.
DDDA	Dublin Docklands Development Authority.
DDMP	Dublin Docklands Master Plan 2003.
DH Network	District Heating Network.
Diesel Range Organics	Organic or carbon containing compounds contained within diesel oil.
District Centre	A cluster of shops and associated services serving the district level.

District Heating	A system for distributing heat generated in a centralized location for residential and commercial heating requirements. This often refers to the practice of using waste heat from a Power Station or incinerator to heat surrounding buildings.
Do Minimum Scenario	This scenario assumes that no development will take place. It includes committed developments in the vicinity of the study area.
Do Nothing Scenario	This scenario assumes construction of the Draft Planning Scheme does not proceed.
Do Something Scenario	This scenario assumes that development will take place, including public transport and road infrastructure improvements.
DoEHLG (also DoE)	Department of the Environment, Heritage and Local Government. See DoE.
Dolomitised	Partial replacement of limestone by dolomite which is a sedimentary carbonate rock and mineral.
DRT	Docklands Rapid Transit - a proposed suburban BRT system for the Docklands area. A road based high capacity public transport system.
DTO model	A large-scale multi modal transportation model, covering the Greater Dublin Area.
DTO	Dublin Transportation Office.
Dutch Intervention Value	Dutch standards which are established environmental pollutant reference standards used in environmental remediation and investigation.
EcIA	Ecological Impact Assessment.
EIA	Environmental Impact Assessment.
EIS	Environmental Impact Statement.
EPA	Environmental Protection Agency.
Equinox	The equinox is the time when sun crosses the plane of the earth's equator, making day and night of approximately equal length all over the earth. This occurs at approximately 21 st March and 21 st September each year.
ERFB	Eastern Regional Fisheries Board.
ESB	Electricity Supply Board.

ESRI	Economic and Social Research Institute.
ETC	Environmental Traffic Cell. ETCs seek to limit through traffic and improve and promote pedestrian, cyclist and public transport facilities and access to an area.
Eutrophic	Having waters, usually in a lake or pond, rich in mineral and organic nutrients that promote a proliferation of plant life, especially algae, which reduces the dissolved oxygen content and often causes the extinction of other organisms.
Floorspace efficiency	Improvements that enable retailers to sell more goods from the same amount of net retail sales area.
Flora & Fauna	A collective term for the plants (flora) and animals (fauna) of an area or region.
GDA	Greater Dublin Area.
Geogrids	Meshes typically made of a regular pattern of tensile elements of a relatively rigid type of plastic, used to strengthen fill materials in geotechnical applications. Geogrids provide increased shear strength between soil strata interfaces. Their tensile strength can prevent or decrease the degree of differential settlement in some applications such as beneath structures or roads by transmitting the load over a broader area of soil, thereby diminishing the vertical stress — and subsequent compression — in the soil.
Geology	An area of study concerning the composition, structure, physical properties, dynamics, and history of Earth's solid and liquid materials and the processes by which they are formed, moved, and changed.
Geomorphology	The study of landforms and the processes that shape them.
Geotextiles	A form of permeable fabrics, typically made from polypropylene or polyester which, when used in association with soil, have the ability to separate, filter, reinforce, protect or drain.
GHG	Greenhouse gases.
GLVIA	Guidelines for Landscape and Visual Impact Assessment, Second Edition, 2002, UK Landscape Institute.
Gross Retail Floor Area	This is the net lettable area (i.e. sales space) plus storage, offices, toilets, canteen/refreshment and circulation space.

Ground Water	Water stored in the soil and rock both above and below the water table.
GSI	Geological Survey of Ireland.
H ₂ S	Hydrogen Sulphide.
HCl	Hydrogen Chloride
Heritage	Any archaeological feature, object or site lying on, in or under the sea bed or on or in land covered by water.
HF	Hydrogen Fluoride
HGV	Heavy Goods Vehicle.
HIA	Health Impact Assessment.
HPPE	High Performance Polyethylene
HSA	Health & Safety Authority.
Hydrobrakes	Device to slow the flow of water.
Hydrogeology	An are of study dealing with the occurrence, distribution and
Hydrogeological	movement of underground water in the soil and rocks of the
Hz	Hertz – a measurement of noise level.
IFSC	International Financial Services Centre.
IGB	Irish Glass Bottle – site of former Irish Glass Bottle Ltd. Factory
In situ	In its original place.
Inorganic Compounds	Compounds which do not contain carbon.
Intercensal period	Period between censi of population.
Intertidal area / zone	The area between average high and low tide marks.
IPCC	Integrated Pollution Prevent and Control.
Iron Age	An archaeological period c.500BC to c.500AD. Also described as the Celtic period, when influences from central Europe and Britain led to the adoption of the Celtic language and the development of an Irish style of Celtic art.
IROPI	Imperative Reasons of Overriding Public Interest.
Karstified	Dissolution of limestone.
kgCO ₂ /yr	Kilograms of Carbon Dioxide per year.
Knots	Measurement of wind speed.
kWh/m ² /yr	Kilowatt hours per square meter per year.
L ^{A10}	Sound level which is exceeded for 10% of the time.
L ^{A90}	Sound level which is exceeded for 90% of the time.

L^{AEQ}	Continuous equivalent noise level measured on an A-weighted scale or average noise measurement over the frequencies at which humans perceive noise.
Lawson Comfort Criteria	Established standard used to assess wind conditions.
Leachate	Liquid that drains or 'leaches' from a landfill..
LGV	Light Goods Vehicle.
Litres/m ² /day	Litres per square metre per day.
Lo-Lo	Load on-load off operation.
LVIA	Landscape and Visual Impact Assessment.
m ³ / s	Cubic metres per second
m ³ /m ² /yr	Cubic metres per square metre per year.
m ³ /unit/yr	Cubic metres per unit per year.
m ³ /yr	Cubic metres per year.
Macroclimate	The climate within 1-2 kilometres of a specific location.
Management Plan	A construction management tool that is put into operation during construction on-site, describing the organised movement of the construction workforce onto and off the site as well as setting out details on the transport and delivery of construction plant, materials and equipment to the site and the removal of surplus materials from the site. It also describes how movement of construction workforce onto and off the site will be organised.
Medieval Period	In Ireland, an historical / archaeological period commonly dated from the advent of Christianity in the 5 th century. to the beginning of the Early Modern Period in the 16 th century.
Mesolithic	An archaeological period c. 7000 – 4000BC, also known as the Middle Stone Age.
mg / l	micrograms per litre
mg/m ³	Milligrams per cubic metre.
Microclimate	The climate within the immediate locality of a structure or building.
Midden	A dump for domestic waste.
Mineral Oils	Oil derived from a mineral source such as petroleum as opposed to plants or animals.
Mitigation	Measures taken to avoid, reduce or remedy adverse impacts.

mm/s	Millimetre per second.
MMP	Mobility Management Plan - a development management tool that brings together transportation requirements, employers, staff and site management issues in a coordinated manner.
Mode (Travel)	Method of travel, whether by foot, cycle, private car, public transport etc.
Mode Split	The varying proportions of different transport modes which may be used at any one time.
Natura 2000 sites	Ecologically important sites (e.g. SPA's & SAC's) designated for protection under the EU Birds Directive (<i>Council Directive 79/409/EEC</i>) or the EU Habitats Directive (<i>Council Directive 92/43/EEC</i>).
Nearshore bathymetry	The surface shape of the seabed in the area immediately below low water mark.
Net Retail Sales Area	The area of a shop or store which is devoted to the sales of retail goods; also referred to as "net retail area" and "net retail floorspace".
NHA / pNHA	Natural Heritage Area / proposed Natural Heritage Area.
NM	Noise monitoring point.
NO ₂	Nitrogen Dioxide.
Non-retail services	Uses such as banks, building societies, restaurants, coffee and sandwich shops ancillary to main retail provision.
NORA	National Oil Reserves Agency.
NO _x	Nitrogen Oxides.
NPWS	National Parks & Wildlife Service.
NSS	National Spatial Strategy.
NTS	Non-Technical Summary – A summary, in non-technical terms, of the main likely impacts and proposed mitigation measures of the EIS.
OD	Ordnance Datum – usually used for deriving altitudes on Ordnance Survey maps and in reference to mean sea levels.
ODM	Ordnance Datum Malin Head.
Of Archaeological Interest	Area of archaeological potential identified by a recorded monument reference number on the land use zoning maps of

	Dublin City Council. The recorded monument reference numbers are taken from the Record of Monuments and Places for Dublin, published by Department of the Environment, Heritage and Local Government.
Operational Phase	The phase / period when the Planning Scheme, or elements therein, are in existence, being used or operated.
OPW	Office of Public Works.
Ornithological	Pertaining to the study birds.
OSi	Ordnance Survey of Ireland.
PAHs	Polycyclic Aromatic Hydrocarbons
Passage Waders	Water birds that pass through the area but do not spend a long time there
PCU	Personal Car Units.
PCU	Passenger Car Units - a standard unit for the measurement of traffic levels. Each unit represents the level of traffic generated by a standard car. HGVs, which are longer and generally slower moving than cars, are equal to approximately three passenger car units.
Peak hour	Time of day at which the transport demands are greatest.
Per capita	Per head of population.
Permeability	The capability of a porous rock or sediment to permit the flow of fluids through its pores/spaces.
pH	Power of Hydrogen. Denotes the measure of acidity or alkalinity of a solution.
Phenolic Compounds	Chemical compounds containing phenols—a class of chemical compounds consisting of a hydroxyl group (-OH) attached to an aromatic hydrocarbon group.
PIR	Passive infrared.
Planning Scheme	A Planning Scheme consists of a written statement and a series of plans which set out the general policy and objectives for the future development of the area.
PM ¹⁰	Particulates, particulate matter – Particulate matter includes dust, soot and other very small particles of solid material that are released into and move within the air.

Potable Water	Water used for drinking.
ppb	Parts per billion.
Progrades	Grows in a seaward direction.
PSCS	Project Supervisor Construction Stage.
PSDP	Project Supervisor Design Process,
PUC	Prime Urban Centre.
Q Values	Used to express the biological quality of water based on a sliding scale. Q1 = seriously polluted water. Q5 = unpolluted water.
QBC	Quality Bus Corridor provides dedicated road space and traffic signal priority to buses.
QBC	Quality Bus Corridor.
QBNPO	Quality Bus Network Project Offices.
Qualitative Assessment (Retail)	An assessment of the vitality and viability of different centres within the sites catchment area which is normally undertaken through Health Checks of centres within the catchment area of the proposed development.
Quantitative Assessment	Provides an appraisal of the capacity potential for additional retail floor space.
Quaternary deposits	Deposits laid down during the Quaternary Period - the geologic time period after the Neogene Period approximately 2.6 million years ago to the present.
Receptors	Buildings, structures sensitive to noise such as residential dwellings, churches or places of assembly.
Remediation	The correction of something bad or defective.
Retail Centre	A centre or facility containing at least one food supermarket or superstore and non-retail services, such as banks, building societies and restaurants.
RIA	Retail Impact Assessment.
Riverine	Of or pertaining to a river.
RMP	Record of Monuments & Places.
Road Capacity	The ability of a road to accommodate traffic frequently expressed as passenger car units per hour.
Road Network	Description of a system of roadways.
RPG	Retail Planning Guidelines 2005

RPS	Record of Protected Structures. Planning Authorities have an obligation to create a record of protected structures which includes all structures or parts of structures in their functional areas which, in their opinion, are of special architectural, historical, archaeological, artistic, cultural, scientific, social or technical interest.
RPS/GDA	Retail Planning Strategy for the Greater Dublin Area.
S.I.	Statutory Instrument - an order, regulation, rule, bye-law, warrant, licence, certificate, direction, notice, guideline or other like document made, issued, granted or otherwise created by or under an Act of the Oireachtas.
SAC / cSAC	Special Area of Conservation / candidate Special Area of Conservation.
SATURN	A combined traffic simulation and assignment software model for the analysis of traffic flows on a specified road network.
SCATS	Sydney Coordinated Adaptive Traffic System - a traffic management system which uses a responsive approach to urban traffic control by measuring changing traffic conditions and adjusting traffic signal phasing to safely direct traffic through junctions.
Scoping	The process which identifies the significant issues which should be addressed by a particular Environmental Impact Assessment.
SEA	Strategic Environmental Assessment.
Seabed bathymetry	The surface shape of the seabed further out to sea.
Section 25 Applications	Made under Section 25 of the Dublin Docklands Development Authority Act 1997 (as amended) for development within identified Planning Scheme Areas.
Sedimentology	The study of ancient sedimentary rocks and sedimentary structures as well as modern sediments such as sand, mud (silt), and clay and the understanding of the processes that deposit them.
Seveso II sites	Sites defined within the Seveso II Directive or Directive 96/82/EC (amended by Directive 2003/105/EC) on the Control of Major Accident Hazards involving Dangerous Substances

Shoreline Fumigation	A process which can occur when, under certain meteorological conditions, pollutants emitted from a tall stack on the coast are brought to ground rather than dispersed into the atmosphere. Also known as “Coastal Fumigation”.
Shoreline progradation	Seaward growth of a beach, delta, fan, etc., by progressive deposition of sediment by rivers or shoreline processes.
Signalised Junction	A traffic junction that is signal controlled by traffic lights.
SO ₂	Sulphur Dioxide.
SPA	Special Protection Area.
SPL	Sound Pressure Level.
Stormwater	Water that originates during precipitation events, such as rain or snow fall or from excess runoff from water that enters a stormwater system.
Stratum	Individual layer of archaeological material.
SuDS	Sustainable Urban Drainage System.
Summer Solstice	The summer solstice, the longest day of the year, occurs on the 12 th June.
Supratidal bathymetry	The surface shape of sand deposited above the high water mark.
Surface Water	Water collected on the ground or in a stream, river, lake, wetland or ocean.
TAGM	Trip Attraction / Generation Model - a sub model of the DTO Transportation Model. TAGM takes into account land use and demographic forecasts for an area and calculates the resultant changes in the demand for travel and provides existing and future trip rates. The TAGM also includes an analysis of existing car ownership trends and prediction of car ownership and car availability for future years.
TDM	Traffic Distribution Model - a sub model of the DTO Transportation Model. TDM takes into account existing travel patterns and predicts trip patterns for future years.
TIA	Traffic Impact Assessment.
Topography / Topographic	An area of study concerning land surface shapes / features.
Trade Diversion	The assessed level of expenditure that is diverted from a centre or store to the proposal. Total trade diversion will comprise that diverted from existing centres and stores both within and

	external to the proposal's catchment area. Assessment of trade diversion will be informed by health checks of centres in the catchment area of the proposal and by household and shopper surveys.
Traffic Flow	Number of vehicles on the road network, generally represented in PCUs (see above).
Traffic Growth	The (normal) expected growth in traffic over time.
Transport 21	Capital Investment framework under the current National Development Plan through which the transport system in Ireland will be developed over the period 2006 – 2015.
TRICS	A database containing empirically obtained trip generation data for a wide range of different types of developments.
Trip Assignment	The final estimated flows of traffic for each direction of travel at each junction and along each link within the study area.
Trip Generation	Modelling the number of person trips or vehicle trips generated by people travelling to and from a study area.
Trunk Main	A large capacity utility service for conveying water, gas, electricity etc. from a main production or storage centre to a local area where it is distributed to individual users via smaller local or distribution mains.
Turnover	Gross sales (€) per square metre of net retail sales area; also referred to as "turnover level" or "turnover ratio".
U values	The measure of heat loss through a material.
UDF	Urban Design Framework.
Urban Grain	Pattern of development comprising of roads, footpaths, buildings, open space etc.
Utilities	Public infrastructure facilities within Poolbeg Peninsula providing sewerage, electricity, gas, oil and waste water treatment.
v/v	Volume per volume.
VOC	Volatile Organic Compound
Weibull curves	Statistical probability distribution curves.
Winter Solstice	The winter solstice, the shortest day of the year occurring on the 21 st December.

WtoE Plant	Waste to Energy Plant.
WWTP	Waste Water Treatment Plant.
Zoological	An area of study concerning animals.