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Irish Water



PROJECT:

Ringsend WwTP Upgrade Project

Strategic Infrastructure Development (Ref: PL29N.YA0010)

DOCUMENT:

Request for alterations to the terms of the development under Section 146B of the Planning & Development Act 2000

ALTERATIONS PROPOSED:

Revised Compound Areas

TITLE:

PROJECT REPORT



July 2017

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# Document Control Sheet

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## SECTION 1: INTRODUCTION

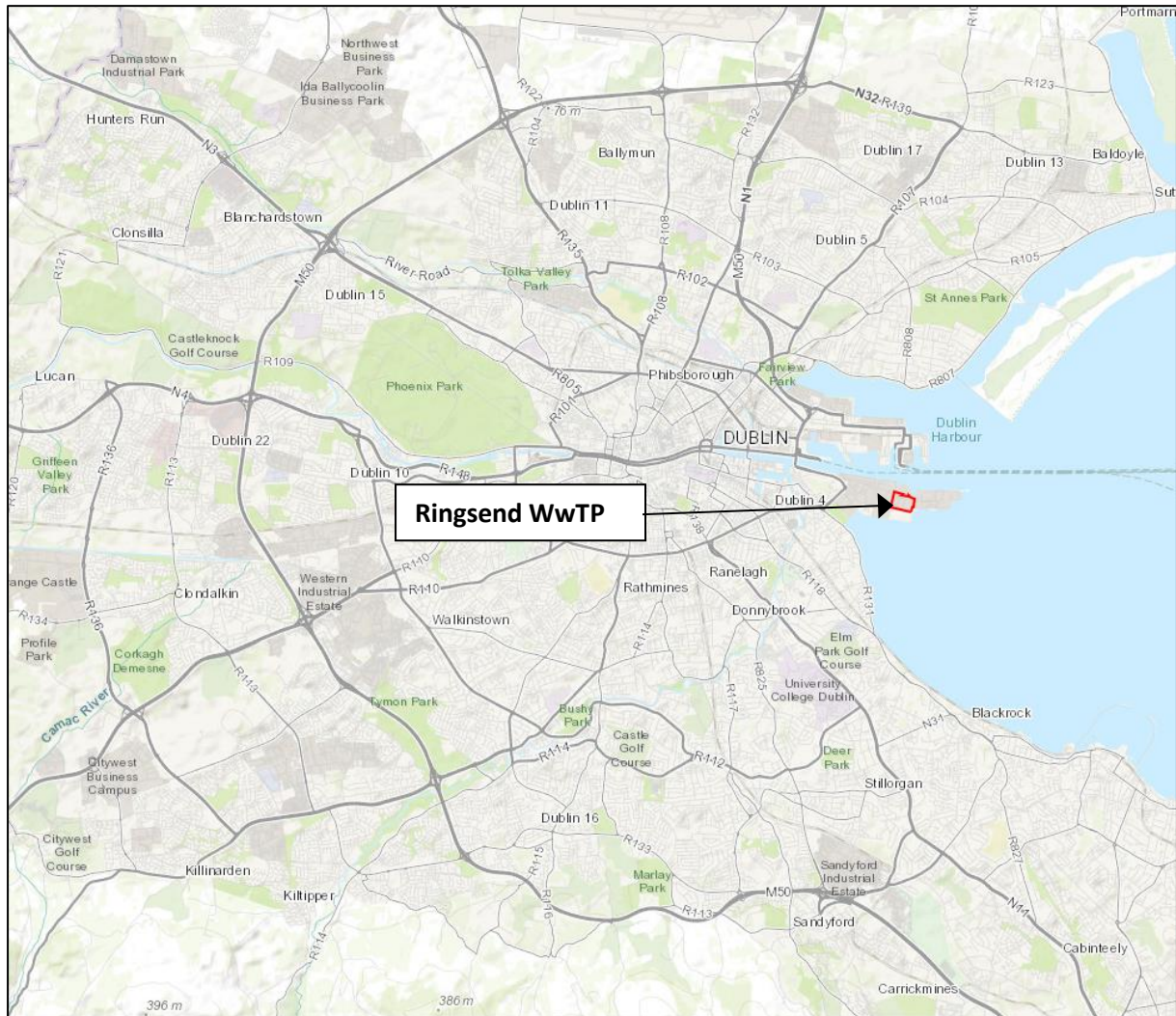
In 2012 An Bord Pleanála granted approval for the upgrade of the Ringsend Wastewater Treatment Plant [ABP Ref: PL29N.YA0010]. A number of the approved temporary construction compounds designated to facilitate the construction of the upgrade project are no longer available. This has occurred due to operational circumstances changing from the date the application was lodged in 2012 to the present. This S146B application seeks to replace those compound areas no longer available with three new additional areas. These areas will be used as temporary construction compounds associated with the construction of the approved Ringsend WwTP upgrade.

This report is structured as follows:

- Site Location
- Planning History
- Alterations Being Requested
- Planning Policy Framework
- Impact of Requested Alterations
- Conclusions
- Scheme Drawings
- Letters of Consent
- Appropriate Assessment screening
- Correspondence with Archaeologist

## SECTION 2: SITE LOCATION

The existing Ringsend Wastewater Treatment Plant is located on the Poolbeg peninsula. The peninsula is located along the southern bank of the River Liffey, at its eastern extremity, where the river enters Dublin Bay. The surrounding environment consists of Dublin City to the west, which is an urbanised landscape, and Dublin Bay to the east, which has several environmental designations, and is also an important recreational environment.



**Figure 2.1: Site Location Map**

## SECTION 3: PLANNING HISTORY

### 3.1 Approved SID Development

An SID application by Dublin City Council to upgrade the Ringsend Wastewater Treatment Plant ['WwTP'] was approved by An Bord Pleanála ['ABP'] on 16th November 2012 [ABP Ref: PL29N.YA0010]. This decision was subsequently challenged by way of judicial review, which challenge was dismissed by the High Court on 19<sup>th</sup> November 2013. The approved development comprises the following main elements, as indicated on Figures 3.1 and 3.2:

**Element 1 – Immediate Upgrades;** Immediate upgrades to facilitate a number of incremental improvements in process performance and to facilitate the extension in secondary treatment capacity

**Element 2 – Extension to the Existing Wastewater Treatment Plant;** Expansion of secondary wastewater treatment capacity at the wastewater treatment plant site (approximately 400,000 population equivalent) including associated solids handling and ancillary plant.

**Element 3 – Effluent Outfall Tunnel Extension;** A 9 kilometre large diameter Long Sea Outfall (in tunnel), (LSOT) commencing at an onshore inlet shaft approximately 350 metres east of the wastewater treatment plant and terminating in an underwater outlet riser/diffuser in Dublin Bay.

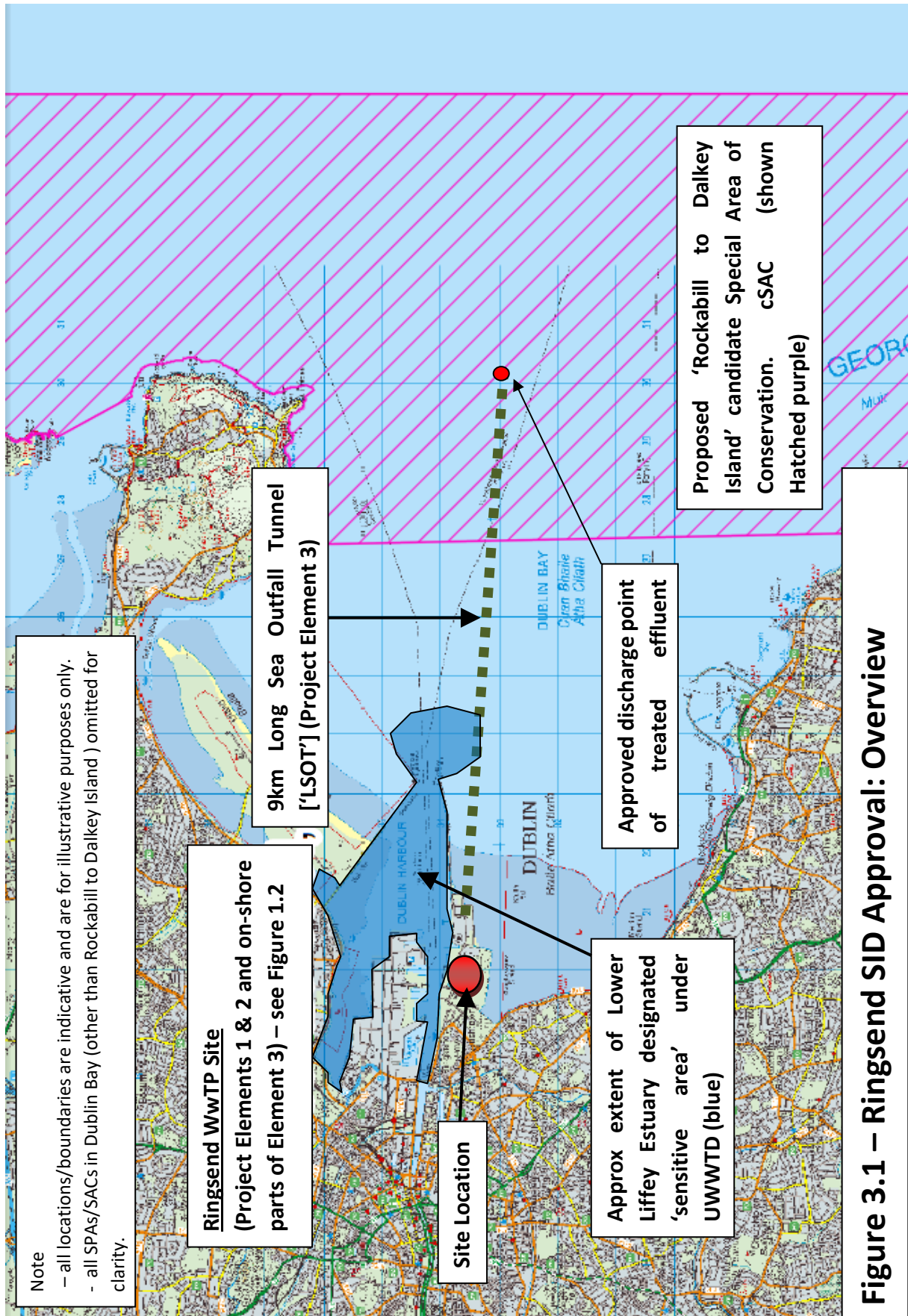
**Element 4 – Road Improvements;** Road network improvements in the vicinity of the site (during the construction phase).

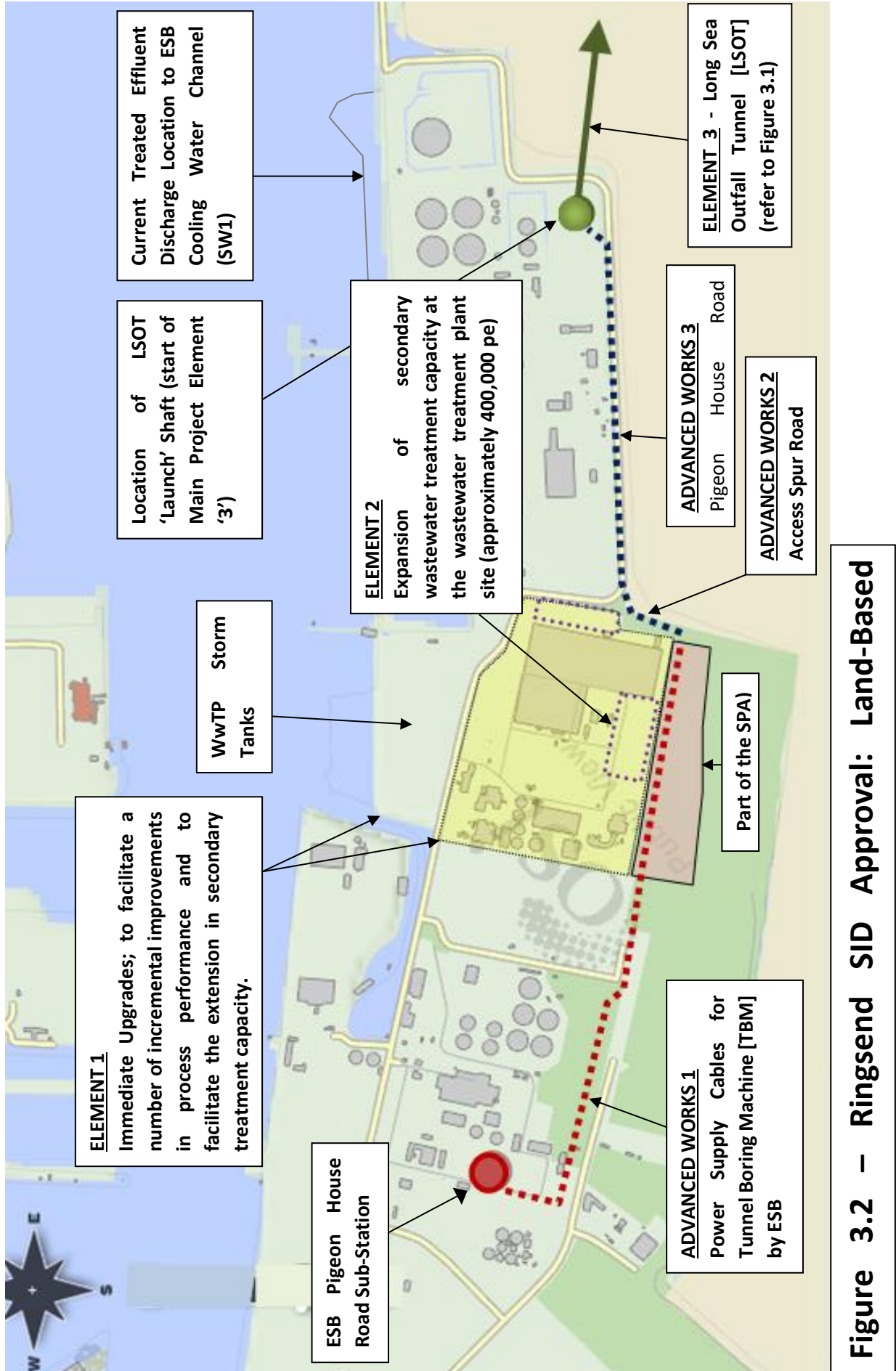
### 3.2 Project Implementation

Implementation of the Ringsend SID Approval was commenced by Dublin City Council in 2013 when a number of land-based aspects of Element 3 (LSOT) were constructed. These works were implemented in advance of the major contracts (Elements 2 & 3) in order to avail of EIS/NIS implementation windows [Condition 10 of the SID Approval] and to comply with Condition 13. These advanced works are indicated on Figure 3.2 and include:

- the installation by the ESB of LSOT power cables (for the LSOT Tunnel Boring Machine) beneath grasslands adjacent to the southern boundary [Advanced Works 1],
- construction of a c. 120m long access 'Spur' road from the Pigeon House Road to the south-east corner of the existing WwTP [Advanced Works 2]; and
- the installation of services, pedestrian safety measures, and the strengthening and upgrading of the Pigeon House Road for a distance of c. 675m east of the entrance to the ESB Poolbeg P.S Site [Advanced Works 3].

A number of works under Element 1 (immediate upgrades) have been completed and others are under way, e.g. odour control measures and a treated sludge loading facility.





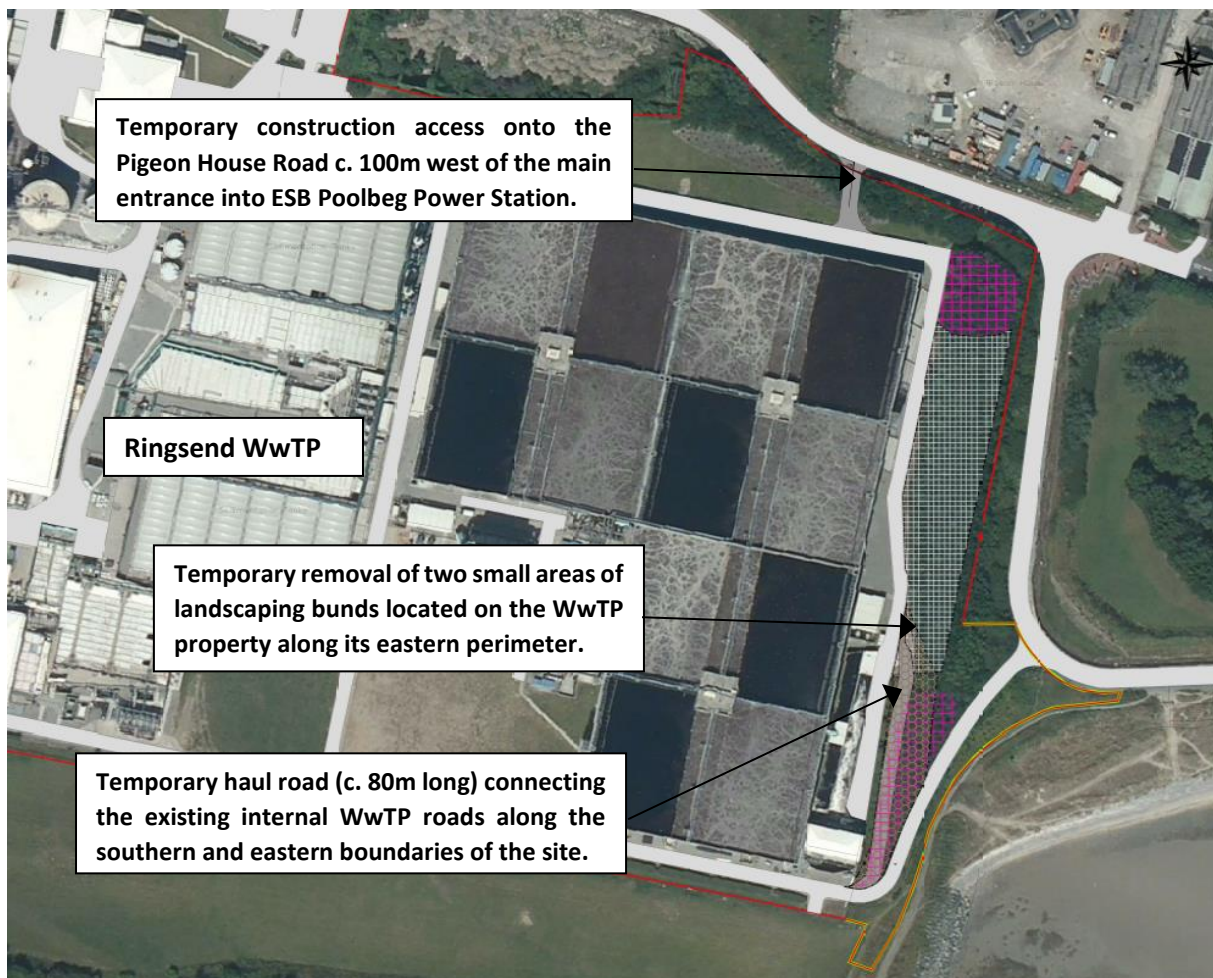
**Figure 3.2 – Ringsend SID Approval: Land-Based**



### 3.3 Previous Section 146B Application

IW (as the person undertaking the SID Development) has previously sought alterations to the foregoing approval under Section 146B of the Planning & Development Act, 2000 as amended. These alterations comprised minor temporary works/measures intended to facilitate the construction of the SID Development, and are listed below and shown on the accompanying Figure 3.3 for clarity.

- Temporary construction access onto the Pigeon House Road c. 100m west of the main entrance into ESB Poolbeg Power Station;
- Temporary removal of two small areas of landscaping bunds located on the WwTP property along its eastern perimeter;
- Temporary haul road (c. 80m long) connecting the existing internal WwTP roads along the southern and eastern boundaries of the site.



**Figure 3.3: Previous Alterations**

An Bord Pleanála confirmed approval of the Section 146B application on 27<sup>th</sup> June 2016 under reference 29N.YM0002 for the previously mentioned alterations. These works are due to be carried out in 2017.

### 3.4 Surrounding area

A number of proposals in the surrounding area are relevant to the development now being proposed.

#### 3.4.1 Dublin Waste to Energy - ABP Reg. Ref. PL29S.EF2022

This application was lodged by Dublin City Council for approval under Section 226 of the Planning and Development Act, 2000 (as amended), for a waste to energy facility at Pigeon House Road, Poolbeg Peninsula, Dublin 4. The Dublin Waste-to-Energy project is a Public Private Partnership (PPP) between Dublin City Council (acting on behalf of the four Dublin Local Authorities) and Covanta. This application was granted subject to conditions in November 2007 by An Bord Pleanála. It was subsequently granted a waste licence by the Environmental Protection Agency in December 2008, and received authorisations from the Commission for Energy Regulation in September 2009.

The construction of the waste to energy plant has been completed and the commissioning of the plant is on-going at present. It is located immediately west of the existing Ringsend WWTP.

The Covanta construction compound, located directly to the south-west of the WWTP facility is one of the new compounds proposed under this S146B application.



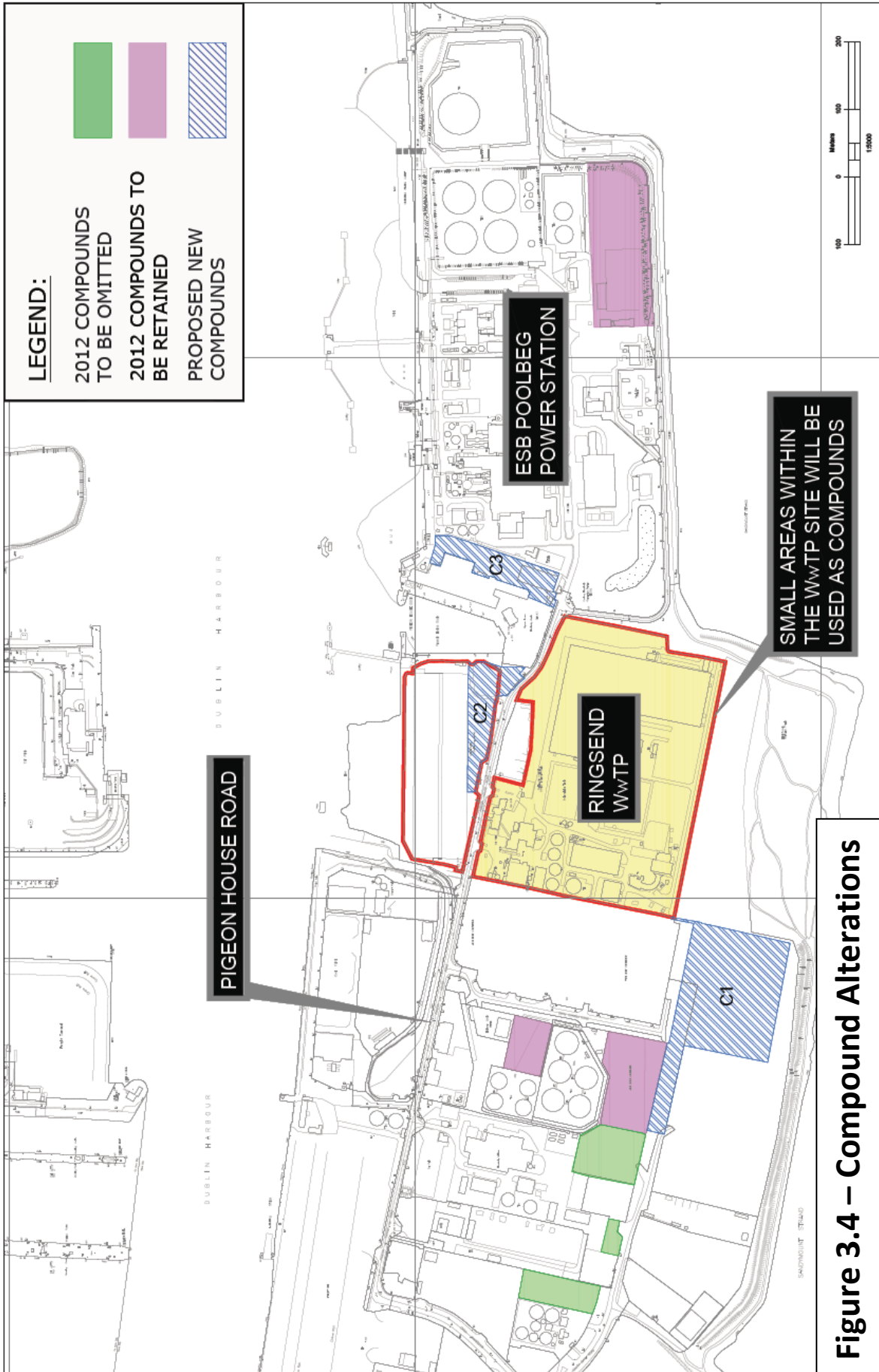
**Figure 3.4: Dublin Waste to Energy Facility**

## SECTION 4: ALTERATIONS BEING REQUESTED

This S146B application arises from the lack of availability of three compounds granted under the 2012 Approval (described in section 4.4.6 of the EIS submitted with SID Ref. PL29N.YA0010). Under the 2012 Approval, the off-site locations for temporary site compounds were located on lands controlled by third parties. However, it is now the case that three of the locations to the west of the WwTP are no longer available due to changes in the operational requirements of the owners (ESB).

Further, other sites have been identified that have become available, and which are located closer to the Wastewater Treatment Plant. In particular, the Dublin Waste to Energy project (Covanta development adjoining the WwTP) is due to be completed later in 2017 and the associated construction site compound (Site C1, please refer to figure 3.4 below), could be made available for use on the Ringsend WWTP Upgrade project subject to An Bord Pleanala consent. This was not available in 2012 for the works at the WwTP.

Under the 2012 approval An Bord Pleanala granted consent for the provision of six off-site construction compounds to facilitate delivery of the WwTP upgrade works. Three of these compounds are to remain part of the 2012 approval (locations marked magenta on Figure 3.4 below). The three compounds to be omitted are marked plain green on the drawing. The proposed three new compounds the subject of this S146B application are marked blue on the drawing and labelled C1, C2 and C3.



**Figure 3.4 – Compound Alterations**

Given the strategic significance of the planned upgrade to Ringsend, Irish Water have taken steps to ensure that there is sufficient flexibility in the available temporary compounds so that the required upgrade works can take place. In doing so, Irish Water are conscious that the Contractor appointed to undertake the upgrade will determine how best to use the available compound space to complete the project as efficiently as possible and that not all of the compounds are expected to be available throughout the period of the construction stage.

Having regard to all of the above the alterations being requested comprise the following elements;

- Omission of three approved construction site compounds, indicated on drawing PL/001, granted by An Bord Pleanála under ABP Ref: PL29N.YA0010 to facilitate construction of the proposed Ringsend WwTP upgrade development, and
- Provision of three new temporary construction site compounds at alternative locations as replacement facilities.

The location and scope of the alterations being requested are set out on the following drawings included in Appendix 1 of this report:

|               |              |   |
|---------------|--------------|---|
| Y15710/PL/001 | Section 146B | Ringsend WwTP Compound Site Locations               |
| Y15710/PL/002 | Section 146B | Ringsend WwTP Compound Site (C1) Layout             |
| Y15710/PL/003 | Section 146B | Ringsend WwTP Compound Site (C2) Layout             |
| Y15710/PL/004 | Section 146B | Ringsend WwTP Compound Site (C2) Sightlines         |
| Y15710/PL/005 | Section 146B | Ringsend WwTP Compound Site (C2) Autotrack Analysis |
| Y15710/PL/006 | Section 146B | Ringsend WwTP Compound Site (C3) Layout             |
| Y15710/PL/007 | Section 146B | Ringsend WwTP Compound Site (G & H) Layout          |
| Y15710/PL/008 | Section 146B | Ringsend WwTP Compound Site Fencing Details         |

An archaeological study has been undertaken for each compound area by Dr. Charles Mount (please refer to Appendix 4) to determine the impact of the proposed alterations on the archaeological heritage. The letter attached to Appendix 4 also makes recommendations in relation to mitigation measures which are included in more detail in section 6.9.

### **Compound C1:**

The site is currently located on the adjacent lands to the southwest of the Ringsend facility and comprises 3.01 Ha. The lands are owned by Dublin Port Company and Dublin City Council and are currently used by Covanta as a construction compound to facilitate the works within the Waste to Energy facility to the north. At present the compound area is utilized as a car park, welfare facilities, storage area and temporary site offices in the form of portacabins. The compound is currently accessed from South Bank Road as part of the ongoing works to the Covanta Waste to Energy facility and its proposed that C1 will continue to be accessed from South Bank Road. The compound will also be accessible from Shellybanks Road once the Covanta works are completed.

It is envisaged that the compound will be maintained by the contractor in its existing use as a car park facility, storage area and site offices. Pedestrian access will be provided into the works site via a 3m wide temporary access with double gate entry. It should be noted that the pedestrian access will not ingress into the adjacent SPA to the east of the compound. The new temporary access from compound C1 traversing the corner of the Covanta site to the Ringsend WwTP Upgrade will be enclosed with a palisade fencing with screening. Consent has been provided for access across Dublin City Council lands to facilitate the temporary access, please refer to Appendix 2.

### **Compound C2:**

The site is located to the north of the existing Ringsend WWTP Upgrade works and comprises approximately 0.75 Ha, with 0.64Ha owned by the applicant, Irish Water and the remaining portion owned by Dublin City Council. The site is currently unused and is bounded to the north by the storm tanks for the Ringsend WwTP and to the south by the north wall of Pigeon House Fort. The site is currently accessed from Pigeon House Road through an existing 3.7m entrance gate. The proposed site compound will require shared access to facilitate entry for the WwTP operator and Dublin City Council for the ongoing operation and maintenance of the Ringsend WWTP storm tanks. This existing access arrangement is denoted on the attached drawing Y15710/PL/003.

As the existing access is part of protected structure (i.e. Pigeon House Fort), a more suitable access arrangement for HGV movements is proposed on drawing Y15710/PL/003. This arrangement incorporates the Design Manual for Urban Roads and Streets (DMURS) principles in creating a new temporary access from the compound to Pigeon House Road for the duration of the works. A 6.9m wide palisade gate installed in the early 2000s will be utilised as an access point to the proposed compound with a new temporary access road as denoted on drawings Y15710/PL/003-005.

This proposal provides flexibility to the works contractor for the segregation of pedestrians and HGVs entering the site thus minimising health and safety risks. It is proposed to utilise the existing access for pedestrian segregation and smaller vehicles while the new access will provide for HGV access only.

It is envisaged the compound will be utilised for the storage of materials and plant throughout the proposed upgrade works. However, this will be at the discretion of the appointed contractor. Concrete traffic barriers will be utilised on the compounds southern boundary to protect the north wall of Pigeon House Fort. The installation of the concrete barriers will be an obligation for the contractor as part of the mitigation measures to protect the north wall of Pigeon House Fort. The contractor will strip the topsoil, which are considered shallow subsurface works, within Compound C2 and install a free draining hardcore finish. Following the works, it is intended to reinstate the area to its current condition.

The contractor will also be required to use a steel structure to protect the existing piers of the entrance against accidental impact created by construction works. A further palisade fence will be installed adjacent to the storm tanks as a health and safety precaution to protect employees against risk from open tanks.

### **Compound C3:**

The site is located to the northeast of the existing Ringsend WWTP Upgrade works and comprises approximately 0.73 Ha. The site is owned by Dublin City Council. The site is accessed from Pigeon House Road and bounded by a disused Power Plant on the west and an ESB facility to the east.

Concrete traffic barriers will be utilised on the compounds western boundary to protect the Pigeon House Power Plant. The installation of the concrete barriers will be an obligation for the contractor as part of the mitigation measures to protect the Pigeon House Power Plant. The site compound will require shared access to facilitate entry to Pigeon House Harbour by the Dublin City Council. This access is denoted on the attached drawing Y15710/PL/006.

### **Summary of Alterations Requested:**

These alterations, if approved, will significantly improve access to the existing site, increase construction works flexibility, and facilitate the management of safety, health and welfare at work on the project. In particular, the proposed alterations will provide for:

- the separation of construction works traffic from employee traffic at Compound C1 with the use of a pedestrian access route to the north-eastern corner;
- the better delineation and separation of different works compounds to facilitate the works;
- the increased segregation of HGV traffic from vehicular and pedestrian construction staff traffic accessing the WwTP site; and
- a reduction in the volume of HGV traffic required to pass along Pigeon House Road.

The alterations requested are considered to be non-material for the following reasons:

- The alterations are exclusively for temporary works during construction and are located exclusively within lands over which consent has been granted, please refer to Appendix 2 for said consents.
- The AA Screening Report concludes that there will be no significant impact on a Natura 2000 site, alone or in-combination with other projects. Similar conclusions apply in respect of environmental impacts (other than on Natura sites).

## SECTION 5: PLANNING POLICY FRAMEWORK

### 5.1 Dublin City Development Plan 2016 – 2022

The Dublin City Development Plan 2016 – 2022 provides the principle statutory planning policy framework for development for the proposed compound sites and has regard to all relevant higher level national and regional strategic guidelines. Currently there is no local area plan provision for the proposed sites. Compound C2 and C3 are located in close proximity to the designated Poolbeg West Strategic Development Zone (SDZ) Planning Scheme and the interaction is noted below. The majority of Compound C1 lies within the SDZ as noted in Figure 5.1 below. The following is an examination of the policies, objectives and development standards of the Dublin City Development Plan that are of relevance to the proposed new compounds.

#### 5.1.1 Policies and Objectives

The construction site compounds play an essential role in facilitating the expansion to the Ringsend WwTP. In this regard, the principle policies and objectives associated with the construction of the treatment plant are noted under Chapter 9 of the City Plan – Sustainable Environmental Infrastructure of the Dublin City Development Plan. The Plan recognises the urgent priority for Irish Water to expand and upgrade the Ringsend WwTP. In this regard, the City Council is committed to working closely with and to support Irish Water in the provision and maintenance of adequate public water and wastewater infrastructure throughout the city.

The Dublin City Development Plan identifies Irish Water’s role under the Water Services Strategic Plan (2015) to provide a supply of safe reliable water supply and treatment of water. In support of this document, the DCDP planning policy places emphasis on progressing the Ringsend Upgrade project and recognises its role in the delivery of future capacity for development. This is noted under the following policies:

*SI1: “To support and facilitate Irish Water in the provision of high-quality drinking water, water conservation, and in the development and improvement of the water and wastewater systems to meet anticipated demands for clean and resilient water supplies and wastewater requirements for the city and region, all in accordance with the recommendations set out in the ‘Greater Dublin Water Supply Strategic Study’ and ‘The Greater Dublin Strategic Drainage Study’” (pg. 116)*

*SI2: “To support and facilitate Irish Water to ensure the upgrading of wastewater infrastructure, in particular the upgrading of the Ringsend Wastewater Treatment Plan, and to support the development of the Greater Dublin Regional Wastewater Treatment plant, the North Docklands Sewage Scheme, the Marine Outfall and orbital sewer to be located in the northern part of the Greater Dublin Area to serve the Dublin region as part of the Greater Dublin Strategic Drainage Strategy.” (pg. 116)*

*SI3: “To ensure that development is permitted in tandem with available water supply and wastewater treatment and to manage development, so that new schemes are permitted only where adequate capacity or resources exists or will become available within the life of a planning permission.” (pg. 116)*



It is clear that the Ringsend Upgrade project is explicitly supported by Policies SI1 and SI2 and will support the achievement of Policy SI3 of the Dublin City Development Plan.

Following on from the above policies, the Objectives of the Council are:

*SIO1: “To support Irish Water in the implementation of the ‘Water Services Strategic Plan – A plan for the Future of Water Services” (pg. 116)*

*SIO2: “To work closely with Irish Water to identify and facilitate the timely delivery of the water services required to realise the development objectives of this plan.” (pg. 116)*

*SIO5: “To protect existing wayleaves and buffer zones around public water service infrastructure.” (pg. 116)*

Having regard to the above it is evident that the principle of the Ringsend WwTP upgrade works are in accordance with the policies and objectives of the Dublin City Development Plan and the related construction works and provision of site compounds can be considered to be in accordance with these provisions.

### 5.1.2 Land-use Zoning Objective

The WwTP facility itself is predominantly zoned Z7 (purple).

The three-new additional temporary compound sites, as shown in Figure 5.1 below, are currently zoned as follows: -

- Site C1 – Objective Z14, and, part Objective Z9
- Site C2 – Objective Z7, and, part Objective Z9
- Site C3 – Objective Z7

Site C1 is currently part of the construction compound used by Covanta to construct the adjoining Waste to Energy facility.

Site C2 is currently a landscaped area located between the storm tanks associated with the Ringsend WwTP and Pigeon House Road.

Site C3 is currently in use by the ESB for general storage of equipment and car parking.

Under the Z7 zoning, the objective is:

*“To provide for the protection and creation of industrial uses and to facilitate opportunities for employment creation.”*

‘Public Service installations’ are a permissible use within this zoning designation.

The objective under Z14 zoning seeks:

*“To seek the social, economic and physical development and/or rejuvenation of an area with mixed use, of which residential and “Z6” would be the predominant uses”.*

‘Public Service installations’ are a permissible use within this Z14 zoned lands.

The objective under Z9 zoning seeks:

*“To preserve, provide and improve recreational amenity and open space & green networks”.*

‘Public Service installations’ are a permissible use within this zoning designation, provided it is not detrimental to the amenity of Z9 zoned lands.

The use of the lands in question for additional temporary construction compounds is consistent with the zoning for these lands.

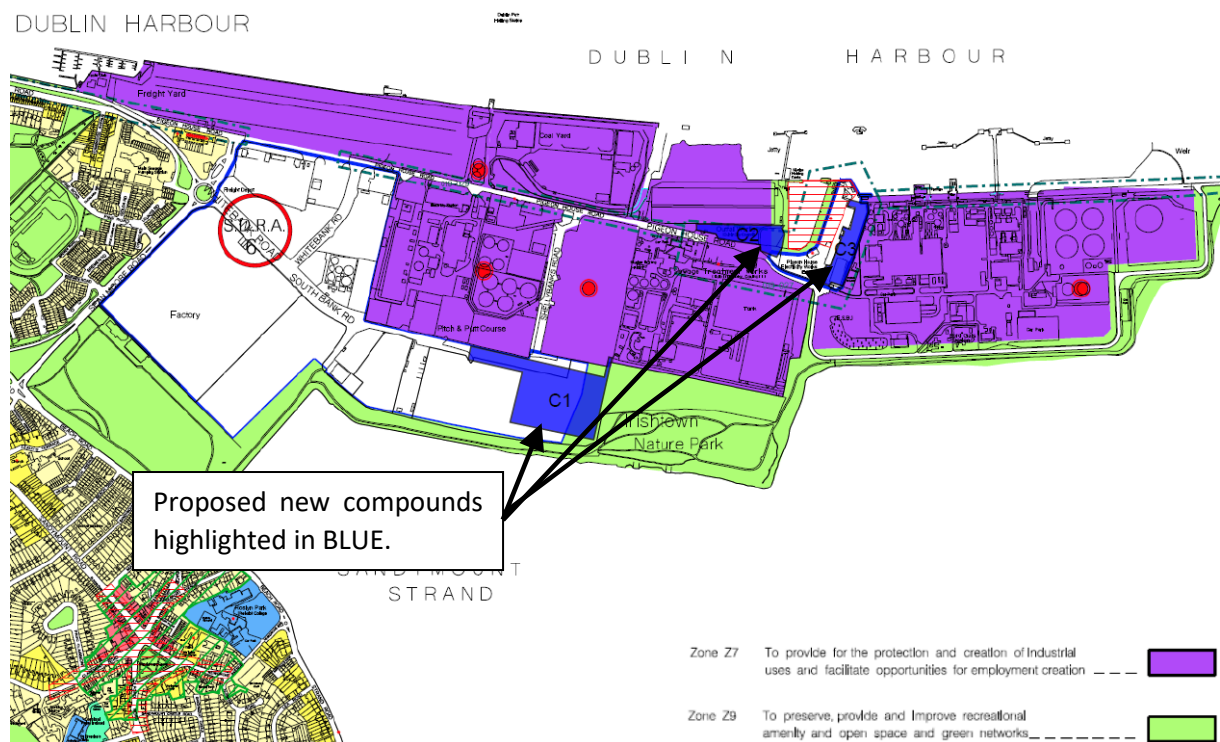


Figure 5.1 – Land use-zoning objectives (City Development Plan 2016-2022)

### 5.1.3 SDRA 6 – Docklands (SDZ and Wider Docklands Area)

The City Development Plan has identified a number of Strategic Development and Regeneration Areas (SDRA’s). SDRA 6 - Docklands is separated into three elements:

- Docklands Area
- Strategic Development Zone (SDZ)
- Poolbeg West
- 

The Poolbeg West site is located in proximity to the existing Ringsend WwTP. As set out under Section 15.1.1.9, the Poolbeg West site shown in Figure 5.2 is seen as an:

*“opportunity for the city to deliver significant levels of private and public housing, employment, schools, community and recreational facilities within the life of the Development Plan”*

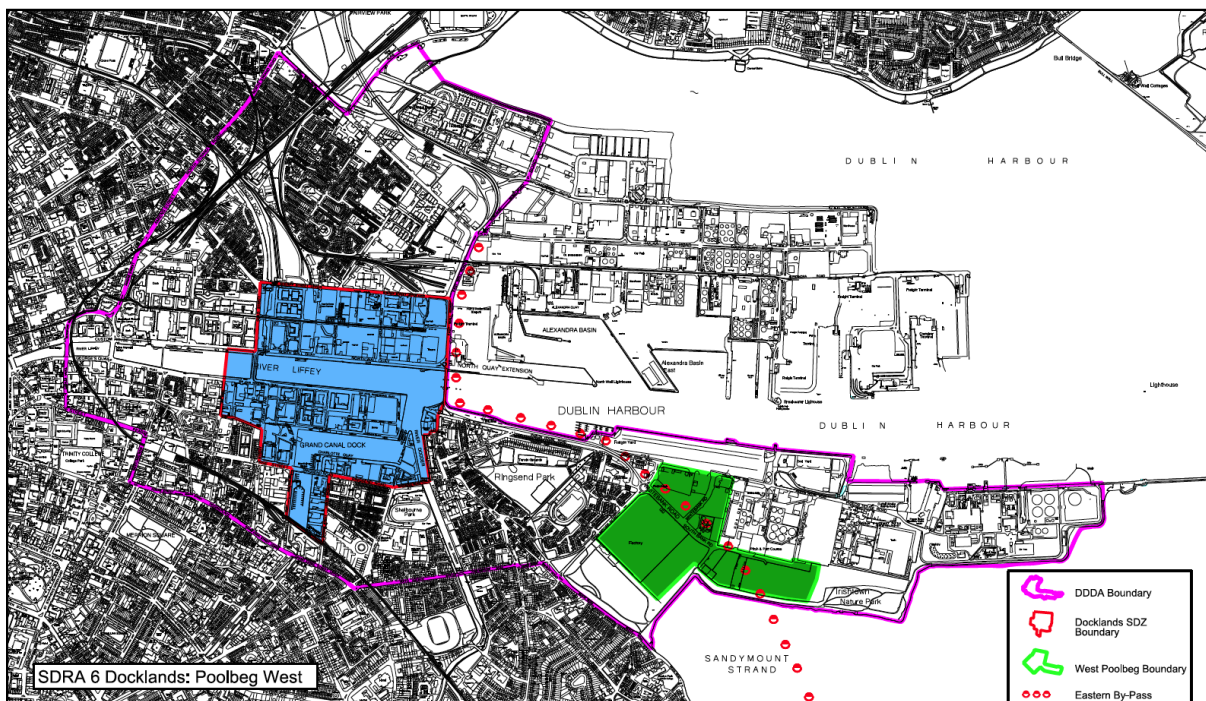
The Council outlines a masterplan will be required to demonstrate how the SDRA principles will be delivered on a phased basis. The following guiding principles will apply:

- Social and Economic
- Use and Urban Form
- Movement and Sustainability
- Environment

The Poolbeg West lands have recently been designated a Strategic Development Zone (SDZ) and a Draft Planning Scheme for these lands in line with these guiding principles has recently been published by Dublin City Council.

The City Development Plan confirms that the preparation of any masterplan for the Poolbeg West lands will have regard to the existence of critical infrastructure in the area, including the Waste to Energy facility and the Ringsend WwTP.

South Bank Road, which runs along the eastern boundary of the S.D.R.A area, forms part of the primary route onto the Pigeon House road, from which the Ringsend facility is accessed. During the construction phase, the South Bank Road will form the main access route both for the operation of the facility and the construction at both northern and southern compounds at the Ringsend WwTP.

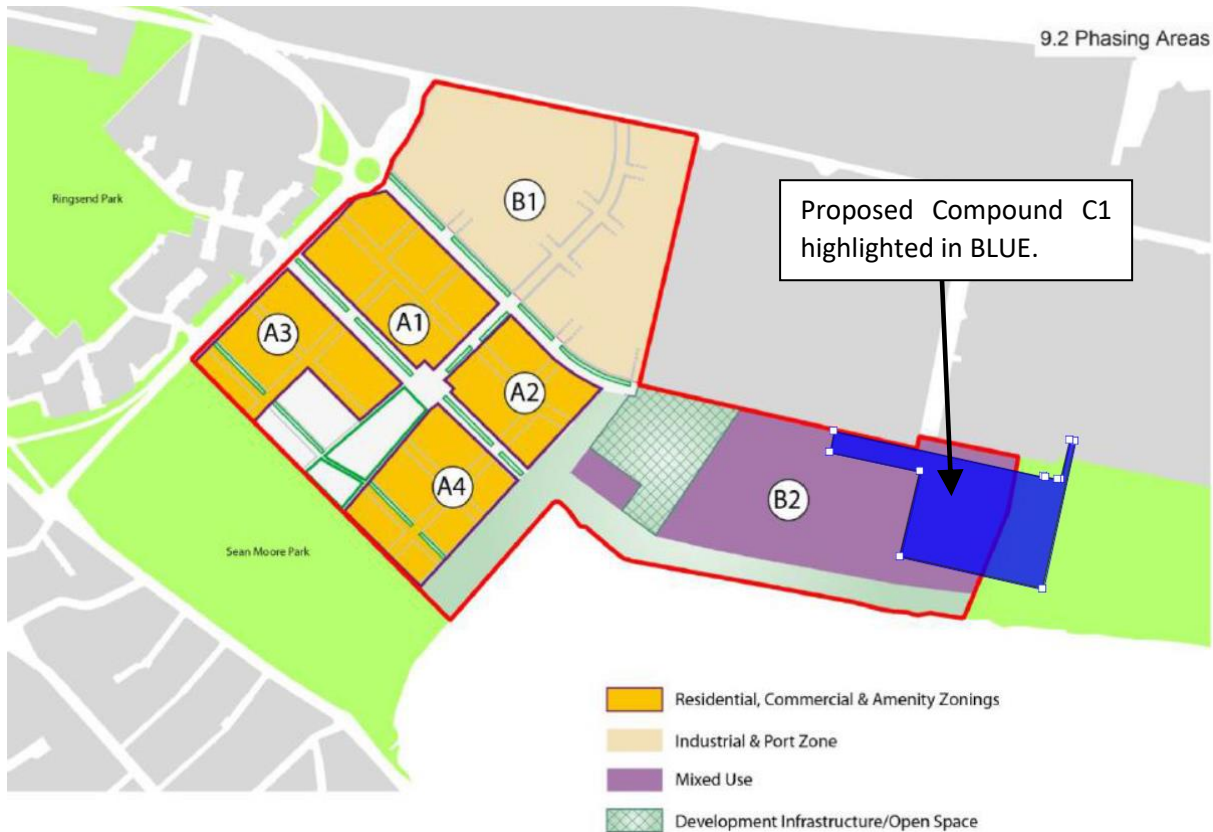


**Figure 5.2 –SDRA 6 Docklands: Poolbeg West (City Development Plan 2016-2022)**

The alignment of the road objective for the Eastern By-Pass crosses through the Poolbeg West lands. The road objective does not pass through the lands proposed for additional temporary construction compounds.

### 5.1.4 Draft Poolbeg West SDZ

The entire Planning Scheme area is c. 34ha in size with the potential to deliver 3,000 residential units. The expected population arising from these units is broadly 7,000 persons which are generally contained within the land use parameters shown in Figure 5.3 below.



**Figure 5.3 – The extent of Poolbeg West SDZ with the compound ‘C1’ in highlighted in BLUE**

Only one of the planned compounds is located within this Draft Planning Scheme area. Proposed Compound ‘C1’ is located within an area predominantly designated as *Mixed Use*, along the eastern section of the SDZ lands. With respect to phasing, the Planning Scheme identifies this area as Block ‘B2’, an area proposed for mixed use which includes the possibility for a ‘*film, TV and digital content production studios*’ for Dublin Bay Studios. The proposed temporary use of these lands as a construction compound for the Ringsend WwTP works does not conflict with the longer-term provisions of the Draft Planning Scheme.

While there is uncertainty regarding the provision of the Eastern By-pass Route, the proposed temporary nature of the construction compound ‘C1’ will not prejudice any permanent form of development in this area.

### 5.1.5 Development management standards

There are no specific development management standards applicable to temporary compounds.

### 5.1.6 Architectural Conservation

There are no conservation designations applicable to Site C1.

In respect of Site C2 and Site C3, the conservation designations outlined in the City Development Plan are as follows:

- There are a number of protected structures in the vicinity of Site C2 and Site C3: -
  - (RPS no. 6794) – Remnants of Pigeon House Fort. The boundary wall to the Fort divides Site C2.
  - (RPS no. 6795) – Former Pigeon House Hotel. This lies between Site C2 and Site C3 but is not located within either of these compounds.
  - (RPS no. 6796) – Pigeon House Power Station. The boundary wall to the Power Station forms the edge of Site C3.
- The area around the Pigeon House Dock is further designated as a conservation area. Neither Site C2 nor Site C3 are located within the area.
- Site C2 and Site C3 are within a designated Zone of Archaeological Interest.

The extent of these conservation designations and the interactions with the proposed compounds on these designations are discussed further under a report prepared by archaeologist Dr. Charles Mount attached in Appendix 4.

### 5.1.7 Seveso III Directive

The Zoning Maps of the City Development Plan identify the location of “Seveso III” designated sites with a large red dot see Figure 5.1.

Appendix 12 of the City Development Plan 2016 – 2022, outlines a list of Seveso sites in the City, including their respective ‘consultation zone’. There are some activities listed in an ‘Upper Tier’ and others in a ‘Lower Tier’ of activity. Where proposals arise for development within these ‘consultation zones’ the COMAH Regulations place an onus on the Planning Authority to consult with the HSA regarding the proposal to ensure they are appropriate.

There are 6 no. Upper Tier Seveso Establishments within the general vicinity of the proposed construction compounds in the City Development Plan, with only 2 of these located on the Poolbeg Peninsula (highlighted in bold below). The name, location and respective consultation zones are set out as follows;

- **Dublin Waste to Energy Limited, Pigeon House Road, Dublin (300m from bund wall)**
- **National Oil Reserves Agency, Ringsend Oil Storage, Pigeon House Road, Ringsend, Dublin 4 (300m from perimeter)**
- Calor Teo, Tolka Quay, Alexandra Rd. Dublin 1 (600m from perimeter)
- Esso Ireland Ltd. Dublin joint fuels Terminal, Alexandra Rd. Dublin 1 (400m from perimeter)
- Indaver Ireland, Tolka Quay Road, Dublin 1 (700m from perimeter)
- Tedcastles Oil Products (Yard 2), Promenade Road, Dublin 3 (400m from perimeter)

The Dublin Waste to Energy Ltd facility is the most proximate Upper Tier Seveso site to the associated construction compounds, particularly compound ‘C1’. The proposed ‘C3’, which is most easterly compound, is not positioned with the respective consultation zone for the National Oil Reserves Agency facility.

There are 11 no. Lower Tier SEVESO Establishments within the port area. Under the Development Plan, only 2 of these are located on the Poolbeg Peninsula (highlighted in bold below). The remaining

facilities are positioned in the north Docks area around Alexandra Road and are at least 850m away across the River Liffey. Thus, the proposed construction compounds are outside the consultation zone for those facilities. The other most proximate Lower Tier Seveso sites are identified in the list below for convenience.

- **Utility Operations & Maintenance Services Ltd Dublin Bay Power Plant, Pigeon House Road, Ringsend, Dublin 4 (300m from bund wall)**
- **ESB Poolbeg Power Station, Pigeon House Road, Ringsend, Dublin 4 (300m from bund wall)**
- ESB North Wall Generating Station, Alexandra Road, North Road, Dublin 1 (300m from bund wall)
- Iarnród Éireann Dublin Port, Alexandra Road, Dublin 1 (300m from bund wall)
- Topaz Energy Ltd. Terminal 1, Alexandra Road, Dublin 1 (400m from perimeter)
- Topaz Energy Ltd. Yard 3, Alexandra Road, Dublin 1 (300m from perimeter)
- Tedcastles Oil Products (Yard 1), Promenade Rd, Dublin 3 (400m from perimeter)

In terms of the proposed compounds, 'C1' resides within 2 zones of consultation, with 'C2' positioned in only 1 zone. The Waste to Energy Facility (Higher Tier SEVESO) includes both compounds within its consultation zone, with the Dublin Bay Power Plant (Lower Tier SEVESO) specific to compound 'C1'. The Upper Tier Seveso site is in close proximity to compound 'C1' and is c. 200 – 280m from Compound 'C2' and with the Ringsend WwTP. This existing relationship will remain unchanged.

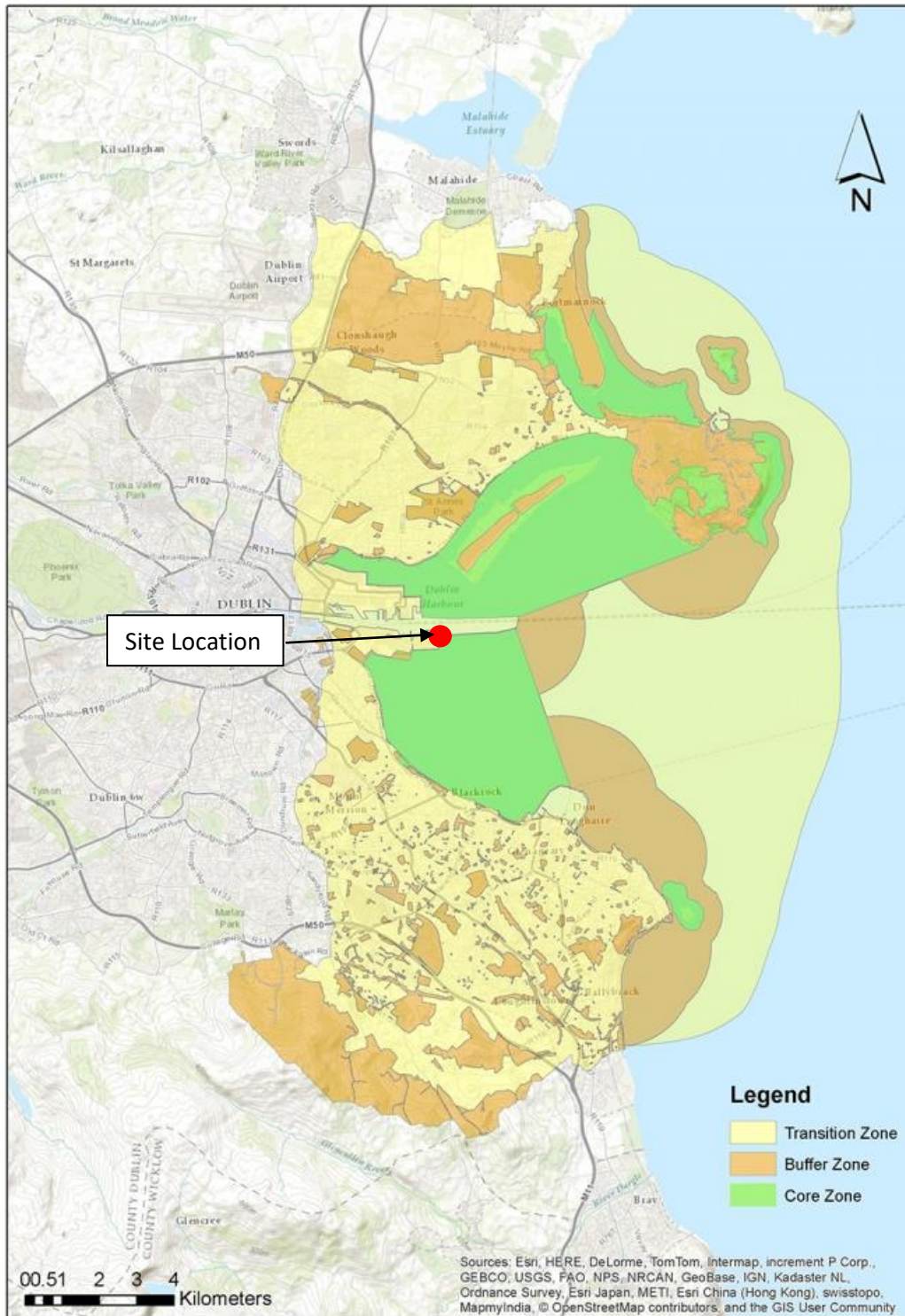
The existing facility at Ringsend operates with 55 full time employees in relative proximity to a number of these facilities. The most recent of these, the Dublin Waste to Energy facility, has been constructed immediately adjacent to construction compound 'C1' in close proximity to this Seveso facility. That project was permitted in the knowledge and understanding that the Ringsend WwTP existed and operates with the employment levels currently in place.

During the 2012 Approval application for the Upgrade to the WwTP, it is noted that An Bord Pleanála consulted with the Health & Safety Authority, as the competent authority, and that they did not submit a response or comment upon same. The HSA raised no objection to the proposed project, including the location of those temporary compounds having regard to the Seveso sites in proximity. The three additional compounds were considered to have no impact on the existing Seveso sites. It is envisaged that there could be 270 people working on the Ringsend WwTP Upgrade construction phase during peak periods.

### 5.1.8 Ecological Conservation

The Dublin Bay area was designated a UNESCO Biosphere in 2015 which is referred to in the City Development Plan. The extent of the Biosphere amounts to 21,182 hectares, the scope of which is outlined in Figure 5.4.

The Dublin City Development Plan 2016 - 2022 confirms that a key objective of the Biosphere will be to strengthen this connectivity of ecological networks by development of spatial planning networks, transcending normal administrative boundaries. GI19 – GI22 provides the city policy regarding this Biosphere.



**Figure 5.4 - The scope of the Dublin Bay Biosphere 2015**

Specified under Section 10.5.6 – Biodiversity, the following policies are of note:

**G121:** To protect flora, fauna and habitats, which have been identified by Articles 10 and 12 of Habitats Directive, Birds Directive, Wildlife Act 1976-2012, the Flora (Protection) Order 2015 S.I. No. 356 of 2015, European Communities (Birds & Natural Habitats) Regulations 2011 to 2015.

**GI22:** *To conserve and manage all-Natural Heritage Areas, Special Areas of Conservation and Special Protection Areas designated, or proposed to be designated, by the Department of Arts, Heritage, Regional, Rural and Gaeltacht.*

**GI19:** *To support the implementation of the 'Dublin City Biodiversity Action Plan 2015 – 2020', including inter alia (a) the conservation of priority species, habitats and natural heritage features, and (b) the protection of designated sites.*

Dublin City Biodiversity Action Plan 2015 – 2020 Outlines the location of protected sites under EU Habitat Directive and EU Birds Directive within Dublin Bay area.

In addition, a screening report has been prepared as part of the Appropriate Assessment of the alterations. This report is contained within Appendix 3 and considers the impact on Natura sites within 15km of the proposed project. The assessment highlights that the proposed compounds will have no impact on Natura 2000 sites.

## 5.2 Local Framework Plans

### 5.2.1 Dublin Port Masterplan 2012 – 2040

The Dublin Port Masterplan 2012-2040 sets out a non-statutory framework for development of the port and its activities up to 2040.

It is considered that the proposed provision of the construction site compounds is consistent with the aspirations of this Masterplan. This is consistent with the view of the Dublin Port Company and Dublin City Council as can be seen in the letters of consent from Dublin Port and Dublin City Council to enable Site C1 (owned by Dublin Port) to be included in this planning application.



## SECTION 6: IMPACTS OF REQUESTED ALTERATIONS

The impacts of the proposed alterations are considered below in the same sequence as the original EIS. The likely significant impacts set out below have been assessed on the basis of the mitigation measures proposed in the EIS (and NIS) being implemented and of full compliance with the conditions attached to SID Approval PL29N.YA0010.

### 6.1 Chapter 7 – Human Beings

The proposed compounds are intended to replace similar compounds previously proposed in the 2012 Approval in the vicinity of the WwTP. Also, compounds C1 and C3 have had prior use for similar purposes. With this in mind, no impacts are envisaged as a result of the proposed alterations.

### 6.2 Chapter 8 – Water Quality

The proposed compounds will be used as hard standing with porous surfacing, generally as per current use. Accordingly, no impacts are envisaged as a result of the proposed alterations.

#### 6.2.1 Drainage

Drainage of bound/sealed surfaces will be in accordance with current site practice, e.g. a combination of gullies (to soakaways), free draining surfacing and French drains. Given that the peninsula was formed from fill including sands/gravels/rubble etc. infiltration and dispersal of rainwater is rapid and presents no capacity issue even during severe rainfall events. The contractor will be fully responsible for the operation and upkeep of the compound areas for the duration of their use.

### 6.3 Chapter 9 – Marine Flora & Fauna

The proposed compound C2 lies adjacent to the River Liffey estuary. No impacts to the marine environment are envisaged because of any activities proposed within the compounds.

Refer to AA Screening Report included in Appendix 3.

### 6.4 Chapter 10 – Terrestrial Flora & Fauna

The proposed compound C1 lies adjacent to an SPA. No impacts to the terrestrial flora and fauna are envisaged because of any activities proposed within the compounds.

Refer to AA Screening Report included in Appendix 3.

### 6.5 Chapter 11 Landscape & Visual

The landscape and visual impacts will be temporary in nature and each compound will be reinstated to the original condition which is grassed areas in the case of C2 following completion of the works. No permanent impacts are envisaged as a result of the proposed alterations.

## 6.6 Chapter 12 – Traffic

The main consequence of the alterations being sought will be changes in the routes a portion of the construction traffic will follow in the immediate vicinity of the WwTP site. Any impacts as a result of the changes in vehicle routes will be localised to the peninsula and it is not anticipated that the operation of any junctions in the wider network will experience any impacts.

The alterations being sought will not result in any change to the overall traffic volumes associated with construction traffic or the peak a.m. and p.m. traffic volumes assessed by ABP prior to making its determination.

Access to Compound C1 will be gained via South Bank Road/ Shellybanks Road, and to Compounds C2 and C3 via Pigeon House Road, or South Bank Road/Shellybanks Road/Pigeon House Road. It is proposed to utilise existing entrances to access compounds C1 & C3. HGV access to Compound C2 will be accessed via the existing entrance and new access route for HGVs only noted on drawing Y15710/PL/003.

A Preliminary Traffic Management Plan will be drafted by the Project Supervisor Design Process for the works in full consultation with Dublin City Council, An Garda Síochána, the Fire Service and the Ambulance service. When the works are awarded to a contractor, the Preliminary Traffic Management Plan will be developed by the Project Supervisor Construction Phase into a Detailed Traffic Management Plan in full consultation with the same stakeholders. All traffic management plans, shall be agreed in writing with by Dublin City County Council in advance of implementation.

It is anticipated that the use of Compound C1 may see a reduction in traffic along Pigeon House Road and improved pedestrian access to the WwTP site.

### 6.6.1 Road Design & Geometry

No permanent impacts are envisaged as a result of the proposed new entrance to compound C2 as this entrance will be utilised to accommodate the works. The principles of DMURS has been included in the design of the new junction at compound C2. This design provides for forward visibility of 49m to road edge either side of the proposed new junction in accordance with table 4.2 of DMURS.

### 6.6.2 Temporary Entrance - Junction Design

It is anticipated on compound C2 that temporary traffic management measures such as shuttle working will be required to manage access to the compound and ensure that potential conflicts between construction related HGVs entering and exiting the compound are minimised. It is anticipated that this shuttle working will be controlled by a banksman/marshal which allows traffic flow to move according to demand.

### 6.6.3 Geotechnical & Pavement Design

The proposed relocation of the compound areas will not require any pavement or geotechnical design and thus have no impact on the 2012 Application.

### 6.6.4 Temporary Works Construction & Traffic Management

No impacts are envisaged as a result of the proposed alterations.

## 6.7 Chapter 13 - Air Quality and Odour

No additional impacts in terms of air quality and odour are envisaged as a result of the proposed alterations.

## 6.8 Chapter 14 - Noise and Vibration

No permanent or additional significant impacts in the form of noise and vibration are envisaged as a result of the proposed alterations.

## 6.9 Chapter 15 - Archaeology and Cultural Heritage

In the surrounding area of the Ringsend WwTP there are a number of protected structures and areas containing national monuments and archaeological zones, which are listed in the Dublin City Development Plan 2016 – 2022. While the proposed development is located outside the Zone of Archaeological Interest for the historic city of Dublin (RMP ref.no. DU018-0020), zones of archaeological potential identified in the Dublin City Development Plan extend into the Ringsend site.

Two protected structures (i.e. Remnants of Pigeon House Fort (RPS 6794) & Pigeon House Power Station (RPS6796)) partly impacts on this application. The North wall of Pigeon House Fort lies adjacent to the southern boundary for compound C2 denoted on Figure 6.1 below. Furthermore, the Western boundary for compound C3 sits in close proximity to the Power Plant shown of Figure 6.2 below.

As identified by the archaeologist's assessment in Appendix 4 the *“ground beneath C2, outside the area of the Pigeon House Fort, was originally part of the Pigeon House harbour and between 1897 and 1906 the outfall works of the Municipal Sewage Scheme was constructed here by filling in the harbour with made ground. Therefore, shallow subsurface works to the north of the wall of the Pigeon House Fort should have no impact on cultural heritage (but see Condition 14 (b) below). The access works within the interior of the Pigeon House Fort will require topsoil stripping for the access road and have the potential to uncover material associated with the fort and should be monitored by a suitably qualified archaeologist.”*

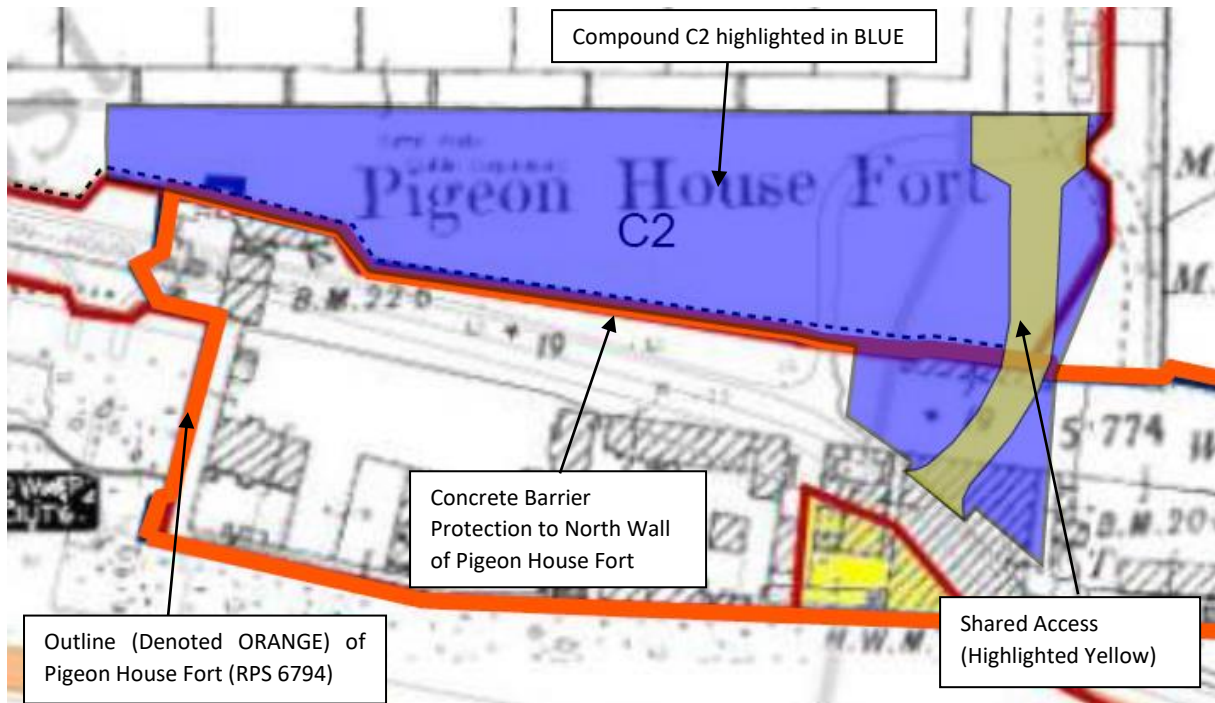


Figure 6.1 – Overlay of historic and proposed Compound C2 of the WwTP site.

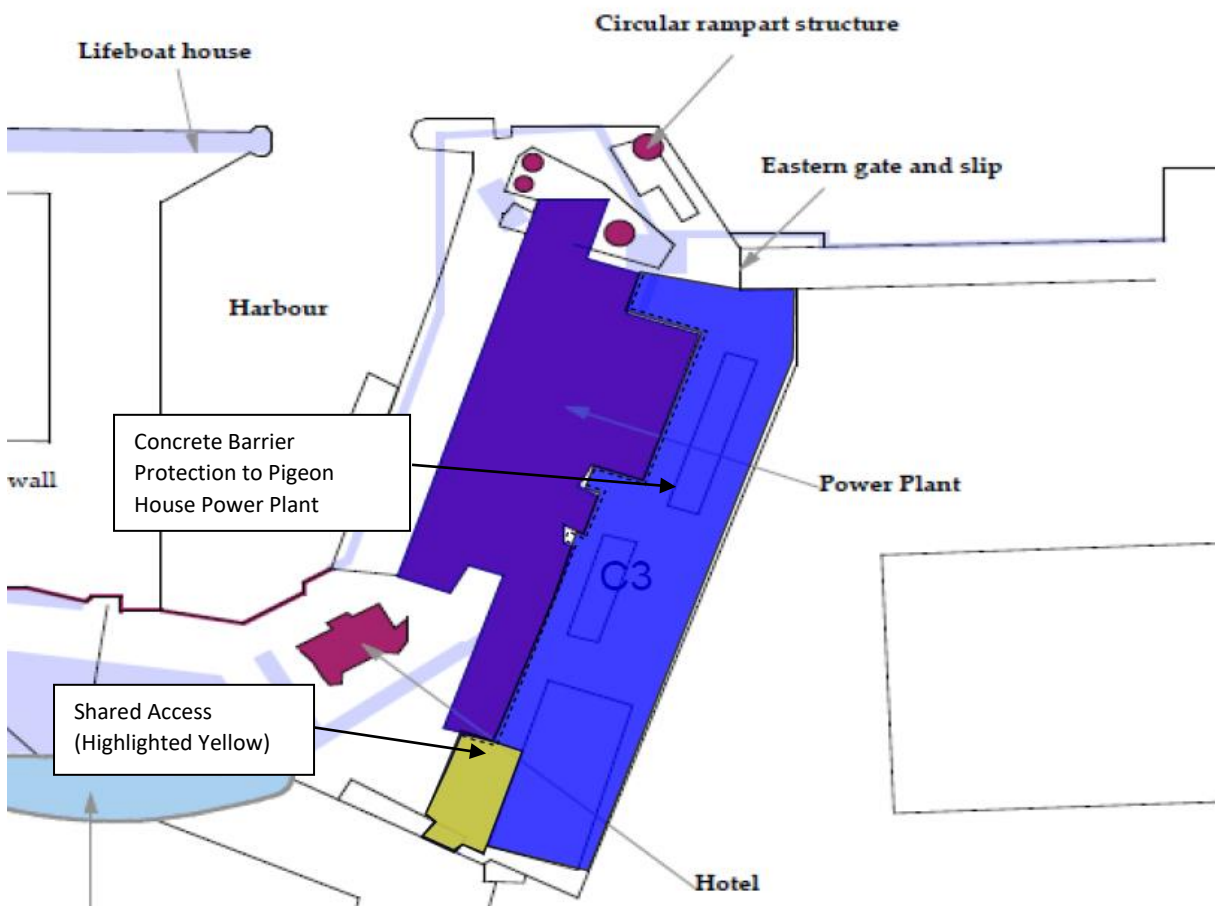


Figure 6.2 – Overlay of historic and proposed Compound C3 of the WwTP site.

Construction machinery has the potential to damage the upstanding parts of the Pigeon House Fort north wall and power plant. The contractor will implement mitigation measures proposed by Dr. Charles Mount (Please refer to Appendix 4) to protect the remnants of the north wall and power plant. These measures will include utilising concrete traffic barriers during construction to prevent any impacts on the protected structure from movements within the compound (i.e. construction machinery).

Furthermore, considering a design and build contract will be implemented on the project, any ABP conditions will be adhered to by the contractor prior to mobilisation on site. An adequate surface shall be maintained within the compound area to minimise the level of vibration generated by HGVs. Therefore, once a level surface is maintained at the nearest compounds, the levels of vibration would be expected to be below the 3mm/s Peak Particle Velocity (PPV) recommended for the protected structure forming part of Pigeon House Fort.

It is not envisaged that the proposed compounds C1, C2 and C3 will require significant alterations to the existing facilities, with the exception of stripping of topsoil at Compound C2 to facilitate the installation of a suitable of a suitable hardcore surface.

The archaeology assessment advises that no impact on cultural heritage arises from shallow sub-surface work north of the fort wall, such as top soil stripping. Condition 14 (i.e. archaeological monitoring) of the existing 2012 permission is noted and acknowledged in this regard.

Accordingly, given the very limited excavation depths associated with the requested alterations and given the requirements of Condition 14 of the original permission ref: PL29N.YA0010, it is concluded that no impacts on archaeology or the cultural heritage will arise as a result of the proposed alterations.

## 6.10 Chapter 16 - Soils, Geology & Hydrogeology

The contractor will strip the topsoil within Compound C2 and install a free draining hardcore finish. Following the works, it is intended to return the area to its current condition. It is anticipated compounds C1 and C3 will not require reinstatement following the works.

At present compound C1 and C3 are configured as construction compounds to facilitate operations by the Covanta Waste to Energy Facility and DCC respectively.

No impacts are envisaged as a result of the proposed alterations as all measures will be temporary and reinstated following the works.

## 6.11 Chapter 17 - Material Assets

Compounds C1 and C3 are owned by Dublin Port Company and Dublin City Council respectively. Consents have been provided for each of the proposed compounds in the attached Appendix 2. The majority of compound C2 is currently owned by Irish Water and operated as part of the Ringsend WWTP. A small portion of compound C2 over which access is provided is owned by DCC and consent is included in Appendix 2. Shared access will be provided in both compounds C2 and C3 to facilitate entry for the local authority and plant operator for ongoing operation and maintenance to the Ringsend storm tanks.

### **Compound C1**

This compound area is located in Dublin port owned lands to the southwest of the adjacent Waste to Energy (WtE) facility, a portion of which is currently being utilised as an existing construction compound area for the construction of that project. The site will be available from late 2017 when the main construction activity on the WtE facility will be complete. Please refer to attached letters of consent in Appendix 2. Access to the compound will be provided from South Bank Road and Shelley Banks Road, please refer to drawing Y15710/PL/002. Pedestrian access to the WwTP site from this compound will be via a temporary access to be provided in the south west corner of the WwTP site. The creation of this access will involve a temporary walkway across the small corner section of the Covanta Waste to Energy site (Please refer to drawing Y15710/PL/002 for further details). This access will only facilitate pedestrian access from the carpark, offices and mess areas.

### **Compound C2**

This compound area is located to the north side of Pigeon House Road, south of the storm tanks. The majority of the compound site is owned by Irish Water, with the exception of a small portion to the east which is owned by Dublin City Council. Please refer to attached letter of consent in Appendix 2. Access to this site will be via a new access road and old entrance gate from Pigeon House Road (Please refer to drawing Y15710/PL/003).

### **Compound C3**

This compound area is located within Dublin City Council owned lands adjacent to the Pigeon House Hotel, to the northeast of the WwTP site. Please refer to attached letter of consent in Appendix 2. Access to this compound area is from Pigeon House Road.

#### **6.11.1 Services & Public Utilities**

It is envisaged the construction of a new palisade fence from compound C1 to the Ringsend WWTP upgrade works will traverse the mains gas and ESB transmission lines.

At construction stage, all existing services will be confirmed on site and the various utility companies and the Local Authority consulted once more to confirm protection measures required for the existing service infrastructure.

An extensive site investigation is to be undertaken along the proposed alignment which will identify the depth of the existing utilities. Following identification of the utilities, and consultation with service providers, protection measures may be required. All protection measures are to be developed in consultation and agreement with the affected service providers prior to construction. In the event subsurface works are required as part of these measures then archaeological monitoring will be carried out as per condition 14 set out in the 2012 consent.

## **6.12 Chapter 18 - Environmental Interactions**

No impacts are envisaged from an interaction of the proposed alterations with the environment.

Refer to AA Screening Report included in Appendix 3.

## 6.13 Flood Risk Assessment

The proposed temporary compounds have no impact on the Flood Risk Assessment submitted with the 2012 Application.

## 6.14 Appropriate Assessment

Appropriate Assessment Screening has been undertaken for the proposed alterations, a copy of which is included in Appendix 3. On the basis of the findings of this Screening for Appropriate Assessment, it is concluded that the Proposed Alterations to the terms of the SID Application at Ringsend Waste Water Treatment Plant will not have a significant effect on the Natura 2000 network and there is no scientific doubt about that conclusion. Accordingly, proceeding to Stage 2 of the Appropriate Assessment process, i.e. preparation of a Natura Impact Statement, is not required.

## SECTION 7: CONCLUSIONS

### 7.1 Conclusions

IW (as the person undertaking the SID Development) now wishes to make an alteration to the foregoing approval and is making a request to An Bord Pleanála under Section 146B of the Planning & Development Act, 2000 as amended in respect of same. This report has discussed the effects of the alteration in detail and draws the following conclusions:

- Is consistent with relevant statutory planning policy in delivering the necessary infrastructure to enable necessary development.
- Complies with the provisions of the Dublin City Development Plan 2016 – 2022.
- Does not prejudice the delivery of the Poolbeg West SDZ Planning Scheme.
- Is in accordance with the proper planning and sustainable development for the area.
- These alterations being sought will not result in any change to the overall traffic volumes associated with construction traffic or the peak a.m. and p.m. traffic volumes assessed by ABP prior to making its determination in 2012.
- Assessment from an environmental impact perspective concluded that the Proposed Alterations are not likely to have significant effects on the environment, either alone or cumulatively with other projects. Screening for Appropriate Assessment (under the Habitats Directive) also concluded that no significant effects were likely on any Natura 2000 site as a result of the proposed alterations, either alone or in-combination with other projects.
- Construction machinery has the potential to damage the upstanding parts of the Pigeon House Fort north wall and power plant. The contractor will implement mitigation measures proposed by Dr. Charles Mount (Please refer to Appendix 3) to protect the remnants of the north wall and power plant. These measures will include utilising concrete traffic barriers during construction to prevent any impacts on the protected structure from movements within the compound (i.e. construction machinery).
- It is not envisaged that the proposed compounds C1, C2 and C3 will require significant alterations to the existing facilities. In the event the construction compounds require any sub-surface works within the vicinity of these protected structures any excavation work will be archaeologically monitored.

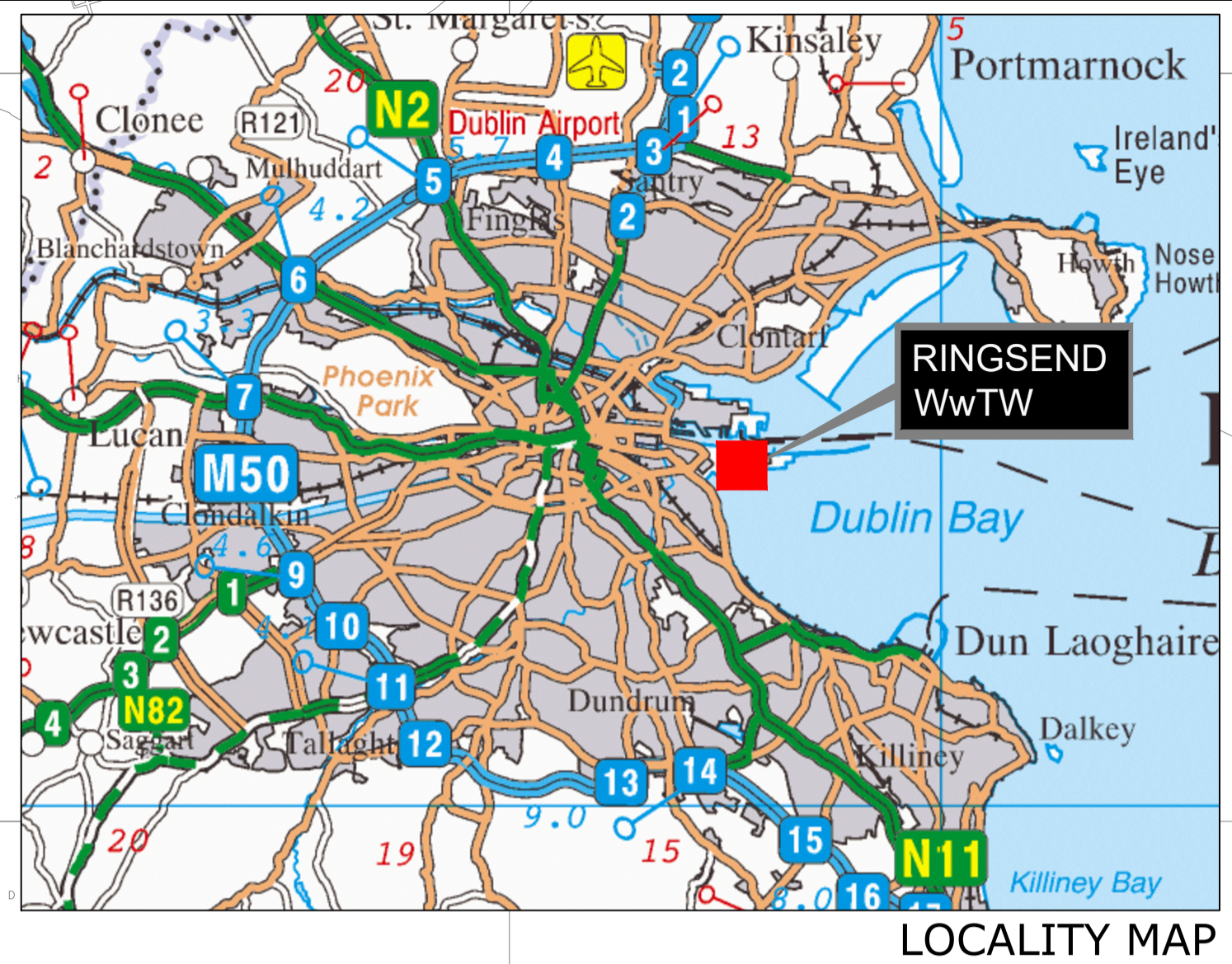
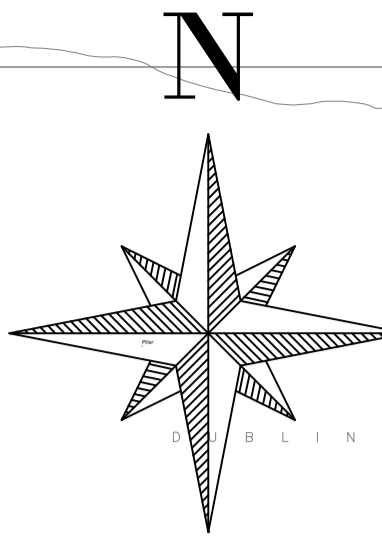
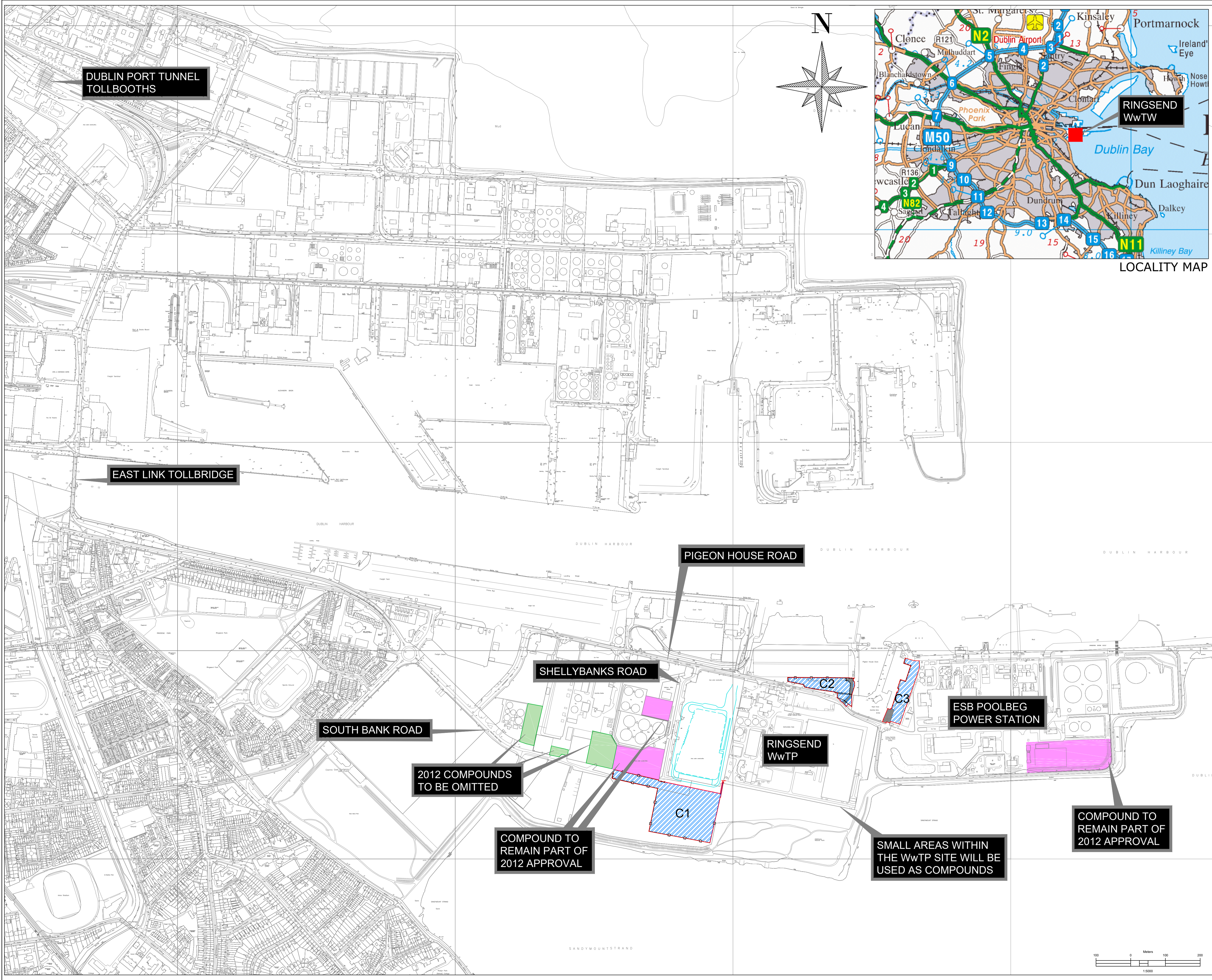
This report requests that these alterations be considered favorably by An Bord Pleanála as they will significantly improve the construction works flexibility, and facilitate the management of safety, health and welfare at work on the project. Furthermore, the alterations requested are considered to be non-material for the following reasons:

- The alterations are exclusively for temporary works during construction and are located exclusively within lands over which landowner consent has been granted.
- The AA Screening Report concludes that there will be no significant impact on a Natura 2000 site, alone or in-combination with other projects. Similar conclusions apply in respect of environmental impacts (other than on Natura sites).



## Appendix 1: Scheme Drawings

|               |   |
|---------------|---|
| Y15710/PL/001 | Section 146B Planning Application Compound Site Locations               |
| Y15710/PL/002 | Section 146B Planning Application Compound Site (C1) Layout             |
| Y15710/PL/003 | Section 146B Planning Application Compound Site (C2) Layout             |
| Y15710/PL/004 | Section 146B Planning Application Compound Site (C2) Sightlines         |
| Y15710/PL/005 | Section 146B Planning Application Compound Site (C2) Autotrack Analysis |
| Y15710/PL/006 | Section 146B Planning Application Compound Site (C3) Layout             |
| Y15710/PL/007 | Section 146B Planning Application Compound Site (G & H) Layout          |
| Y15710/PL/008 | Section 146B Planning Application Compound Site Fencing Details         |



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LEGEND:

- 2012 COMPOUNDS TO BE OMITTED ■
- 2012 COMPOUNDS TO BE RETAINED ■
- PROPOSED COMPOUNDS

| Rev. | Date     | Drawn | Checked | Approved | Description      |
|------|----------|-------|---------|----------|------------------|
| A    | 18/07/17 | LHA   | ED      | MH       | S146B SUBMISSION |

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Drawn By: LHA Checked By: ED Approved By: MH Date: JUL.2017

Client Project Ref: IW-RGD/10000308 Project Stage:

Internal Project Ref: RingEIS/BB-Y15710/TJOC-14040/RHDHV-BB4342 @A1

Drawing Title:  
**RINGSEND WwTP COMPOUND SITE LOCATIONS**

Scales: 1:5000@A1 1:10000@A3  
 Drawing Register No.: 0880 Drawing No.: Y15710/PL/001 Rev: A



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- LEGEND:**
- PROPOSED NEW COMPOUND AREAS
  - EXISTING COMPOUNDS TO BE RETAINED
  - EXISTING COMPOUNDS TO BE OMITTED
  - PROPOSED PALISADE FENCE
  - PROPOSED COMPOUND HOARDING
  - PROPOSED COMPOUND SCREENING

NOTE :  
 REFER TO DRAWING Y15710/PL/008  
 FOR FENCING AND GATE DETAILS

| Rev. | Date     | Drawn | Checked | Approved | Description      |
|------|----------|-------|---------|----------|------------------|
| A    | 18/07/17 | LHA   | ED      | MH       | S146B SUBMISSION |

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|           |             |              |          |
|-----------|-------------|--------------|----------|
| Drawn By: | Checked By: | Approved By: | Date:    |
| LHA       | ED          | MH           | JUL 2017 |

|                     |                |
|---------------------|----------------|
| Client Project Ref: | Project Stage: |
| IW-RGD/10000308     |                |

Internal Project Ref:  
 RingEIS/JBB-Y15710/TJOC-14040/RHDHV-BB4342 @A1

Drawing Title:  
**RINGSEND WwTP  
 COMPOUND SITE (C1)  
 LAYOUT WITH PEDESTRIAN  
 ACCESS**

|         |           |           |
|---------|-----------|-----------|
| Scales: | 1:1000@A1 | 1:2000@A3 |
|---------|-----------|-----------|

|                       |               |      |
|-----------------------|---------------|------|
| Drawing Register No.: | Drawing No.:  | Rev: |
| 0881                  | Y15710/PL/002 | A    |



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**LEGEND:**

- SHARED ACCESS AREA
- PROPOSED NEW COMPOUND AREAS
- PROPOSED COMPOUND PALISADE FENCE
- PROPOSED PROTECTION DETAIL

NOTE:  
 REFER TO DRAWING Y15710/PL/008  
 FOR FENCING AND GATE DETAILS

| Rev. | Date     | Drawn | Checked | Approved | Description      |
|------|----------|-------|---------|----------|------------------|
| A    | 18/07/17 | LHA   | ED      | MH       | S146B SUBMISSION |

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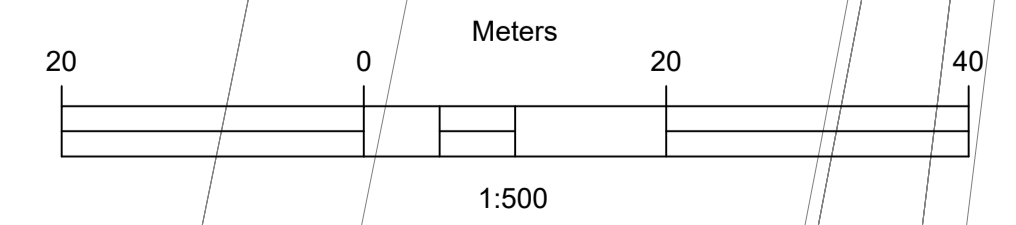
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|-----------|-------------|--------------|----------|
| Drawn By: | Checked By: | Approved By: | Date:    |
| LHA       | ED          | MH           | JUL.2017 |

Client Project Ref: IW-RGD/10000308  
 Project Stage:

Internal Project Ref: RingEIS/BB-Y15710/TJOC-14040/RHDHV-BB4342 @A1

Drawing Title:  
**RINGSEND WwTP  
 COMPOUND SITE (C2)  
 LAYOUT**

|                       |          |              |               |       |   |
|-----------------------|----------|--------------|---------------|-------|---|
| Scales:               | 1:500@A1 | 1:1000@A3    |               |       |   |
| Drawing Register No.: | 0882     | Drawing No.: | Y15710/PL/003 | Rev.: | A |





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**LEGEND:**

- SHARED ACCESS AREA
- PROPOSED NEW COMPOUND AREAS
- PROPOSED COMPOUND PALISADE FENCE

NOTE :  
 REFER TO DRAWING Y15710/PL/008  
 FOR FENCING AND GATE DETAILS

| Rev. | Date     | Drawn | Checked | Approved | Description      |
|------|----------|-------|---------|----------|------------------|
| A    | 18/07/17 | LHA   | ED      | MH       | S146B SUBMISSION |

Client:

Colvill House  
 24-26 Talbot St  
 Dublin 1  
 Tel: 1890 278 278  
 Int: +353-1-707 2828  
 email: info@water.ie  
 Web: www.water.ie

Scheme:  
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 EXTENSION

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|-----------|-------------|--------------|----------|
| Drawn By: | Checked By: | Approved By: | Date:    |
| LHA       | ED          | MH           | JUL.2017 |

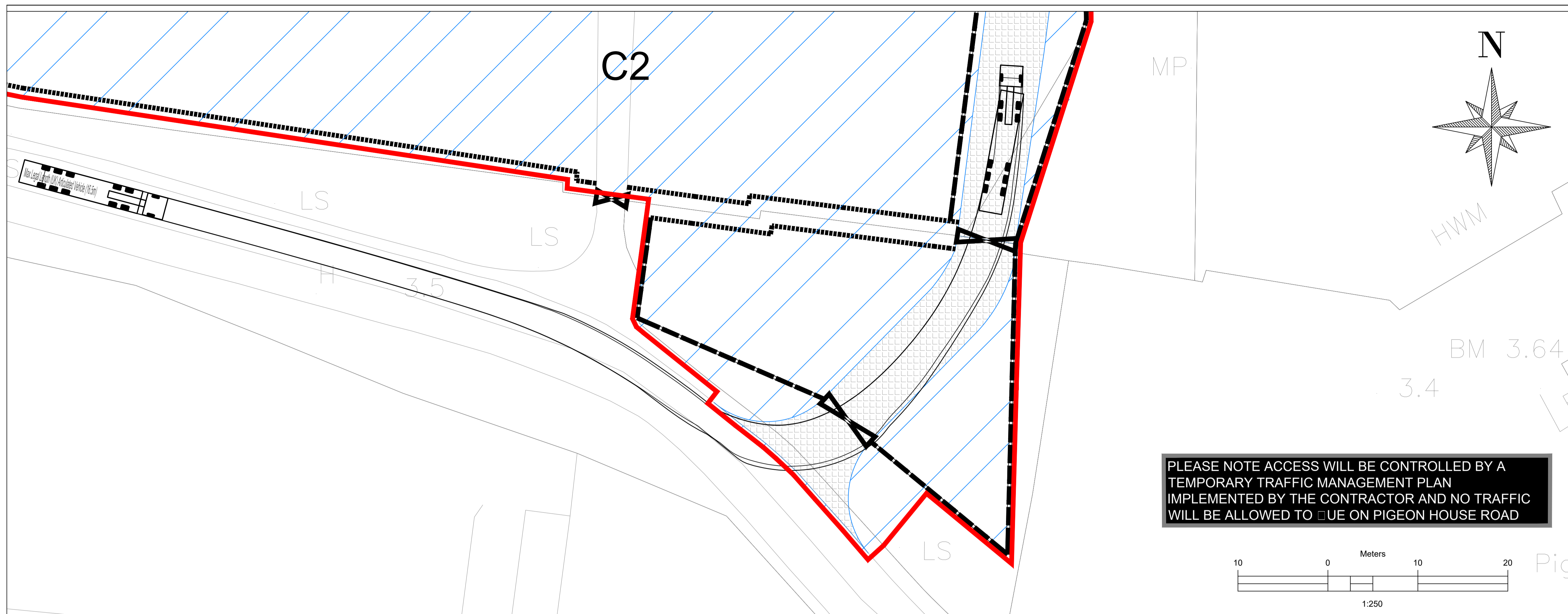
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| Client Project Ref: | Project Stage: |
| IW-RGD/10000308     |                |

Internal Project Ref:  
 RingEIS/BB-Y15710/TJOC-14040/RHDHV-BB4342 @A1

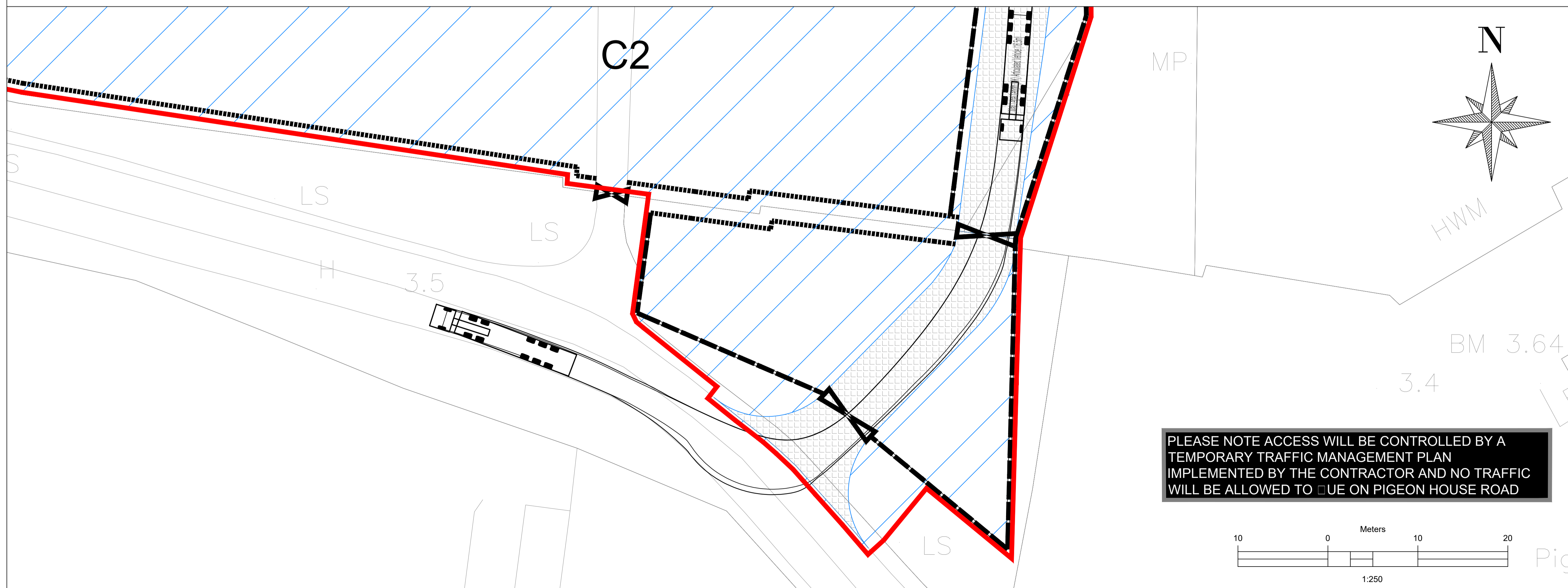
Drawing Title:  
**RINGSEND WwTP  
 COMPOUND SITE (C2)  
 ENTRANCE SIGHTLINES**

Scales:  
 1:250@A1 1:500@A3

|                       |               |       |
|-----------------------|---------------|-------|
| Drawing Register No.: | Drawing No.:  | Rev.: |
| 0883                  | Y15710/PL/004 | A     |



AUTOTRACK ANALYSIS FOR ARTICULATED VEHICLE ENTERING COMPOUND C2



AUTOTRACK ANALYSIS FOR ARTICULATED VEHICLE EXISTING COMPOUND C2

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LEGEND:

- SHARED ACCESS AREA
- PROPOSED NEW COMPOUND AREAS
- PROPOSED COMPOUND PALISADE FENCE

NOTE :  
 REFER TO DRAWING Y15710/PL/008  
 FOR FENCING AND GATE DETAILS

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| Rev. | Date     | Drawn | Checked | Approved | Description      |
|------|----------|-------|---------|----------|------------------|
| A    | 18/07/17 | LHA   | ED      | MH       | S146B SUBMISSION |

Client:

Colvill House  
 24-26 Talbot St  
 Dublin 1  
 Tel: 1890 278 278  
 Intl: +353-1-707 2828  
 email: info@water.ie  
 Web: www.water.ie

Scheme:  
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 EXTENSION

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 email: info@jbbarry.ie  
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 email: info@rhdhv.com  
 Web: www.royalhaskoningdhv.com

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|-----------|-------------|--------------|----------|
| Drawn By: | Checked By: | Approved By: | Date:    |
| LHA       | ED          | MH           | JUL.2017 |

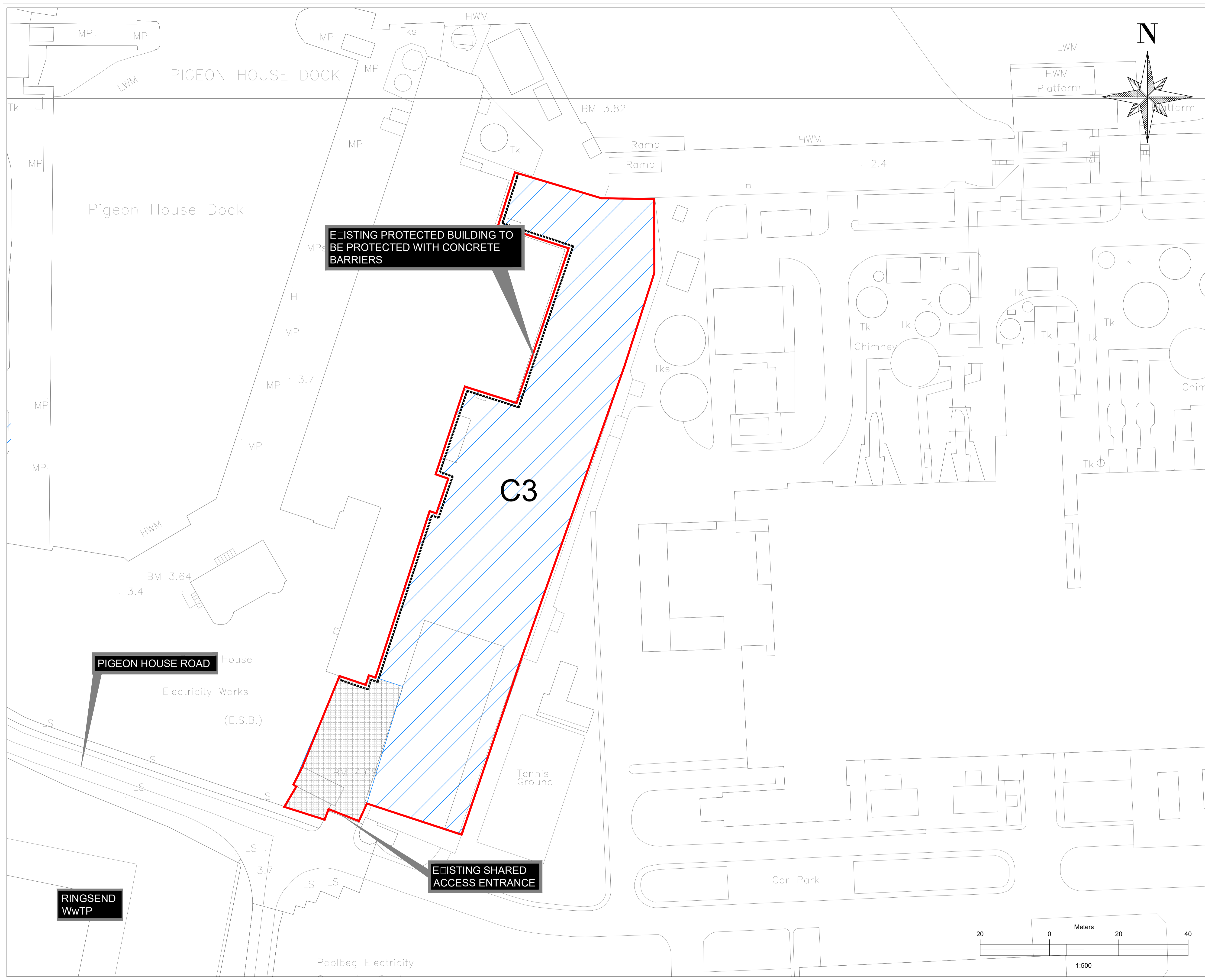
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| Client Project Ref: | Project Stage: |
| IW-RGD/10000308     |                |

Internal Project Ref:  
 RingEIS/BB-Y15710/TJOC-14040/RHDHV-BB4342 @A1

Drawing Title:  
 RINGSEND WwTP  
 COMPOUND SITES (C2)  
 AUTOTRACK ANALYSIS

Scales:  
 1:250@A1 1:500@A3

|                       |               |       |
|-----------------------|---------------|-------|
| Drawing Register No.: | Drawing No.:  | Rev.: |
| 0884                  | Y15710/PL/005 | A     |



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**LEGEND:**

- SHARED ACCESS AREA
- PROPOSED NEW COMPOUND AREAS
- PROPOSED PROTECTION DETAIL

NOTE :  
 REFER TO DRAWING Y15710/PL/008  
 FOR FENCING AND GATE DETAILS

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| Rev. | Date     | Drawn | Checked | Approved | Description      |
|------|----------|-------|---------|----------|------------------|
| A    | 18/07/17 | LHA   | ED      | MH       | S146B SUBMISSION |

Client:

Colvill House  
 24-26 Talbot St  
 Dublin 1  
 Tel: 1890 278 278  
 Int: +353-1-707 2828  
 email: info@water.ie  
 Web: www.water.ie

Scheme:  
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 EXTENSION

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 Corrig Road,  
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 Web: www.tjoc.ie

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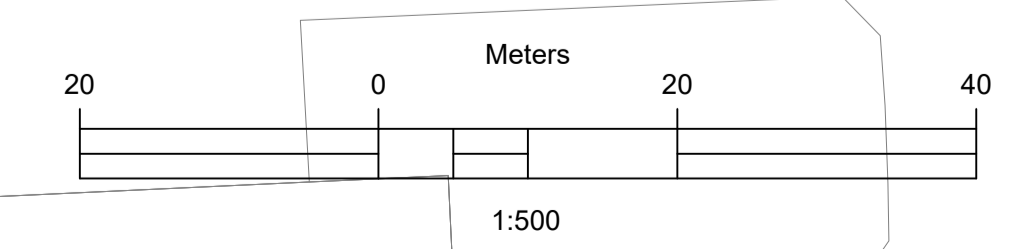
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| Drawn By: | Checked By: | Approved By: | Date:    |
| LHA       | ED          | MH           | JUL 2017 |

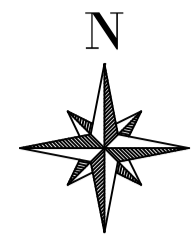
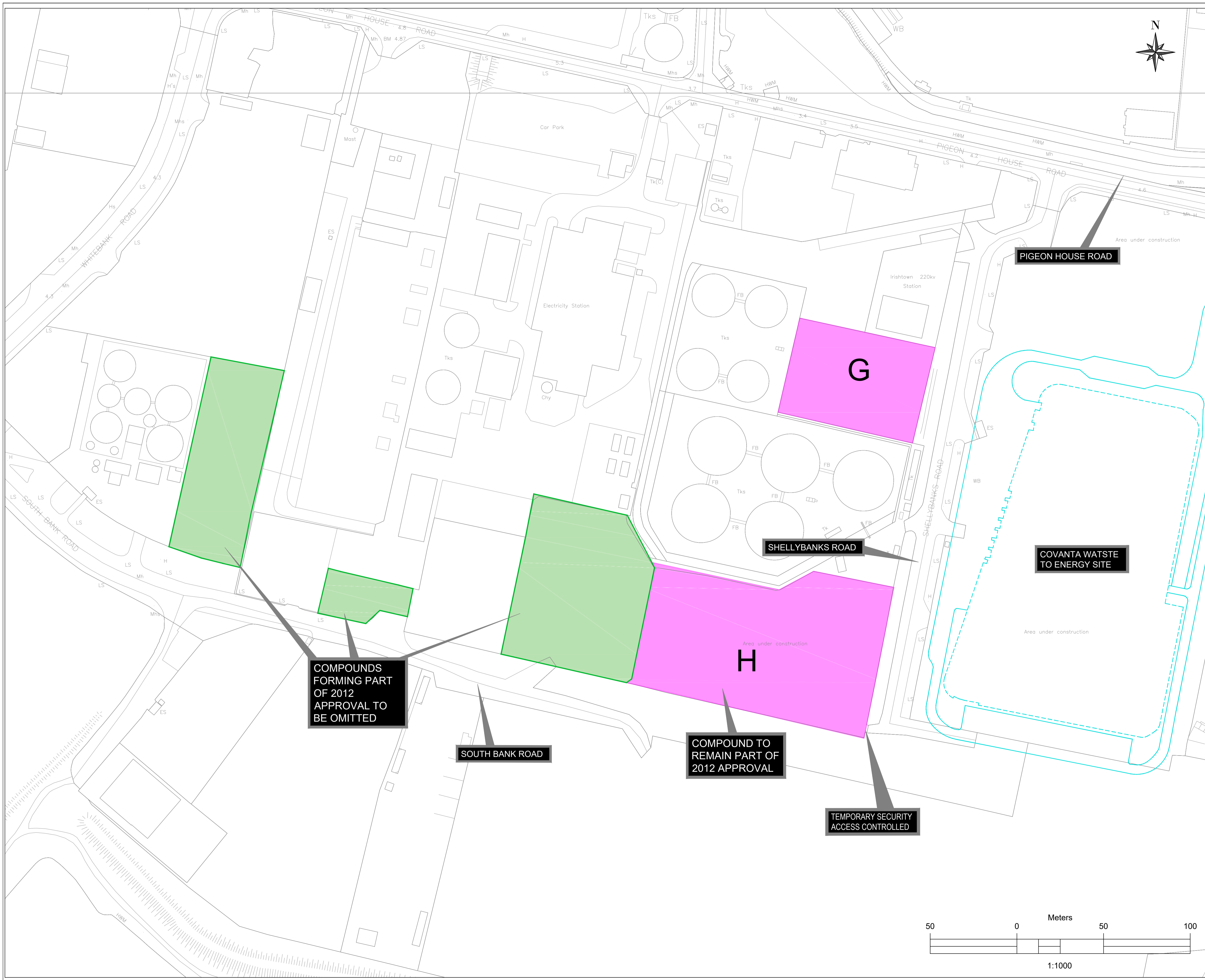
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| Client Project Ref: | Project Stage: |
| IW-RGD/10000308     |                |

Internal Project Ref:  
 RingEIS/JBB-Y15710/TJOC-14040/RHDHV-BB4342 @A1

Drawing Title:  
 RINGSEND WwTP  
 COMPOUND SITE (C3)  
 LAYOUT

|                       |               |       |
|-----------------------|---------------|-------|
| Drawing Register No.: | Drawing No.:  | Rev.: |
| 0885                  | Y15710/PL/006 | A     |





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**LEGEND:**

- EXISTING COMPOUNDS TO BE RETAINED
- EXISTING COMPOUNDS TO BE OMITTED

| Rev. | Date     | Drawn | Checked | Approved | Description      |
|------|----------|-------|---------|----------|------------------|
| A    | 18/07/17 | LHA   | ED      | MH       | S146B SUBMISSION |

Client:

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 WATER Dublin 1 email: info@water.ie  
 Web: www.water.ie

Scheme:

**RINGSEND WASTEWATER TREATMENT WORKS EXTENSION**

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 3800 BC Amersfoort email: info@rhdhv.com  
 The Netherlands Web: www.royalhaskoningdhv.com

Drawn By: LHA Checked By: ED Approved By: MH Date: JUL 2017

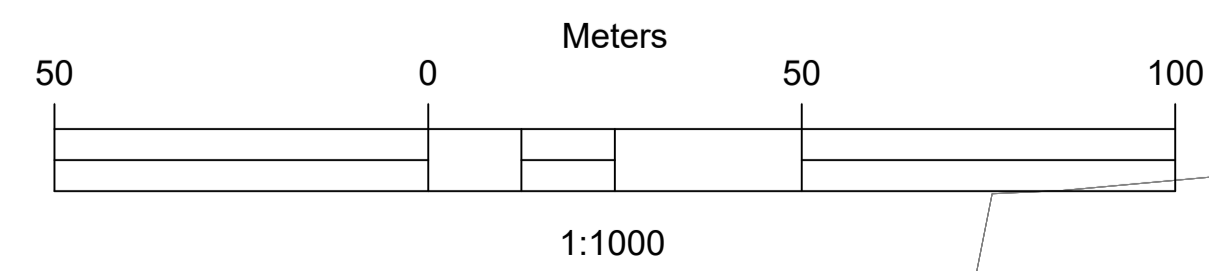
Client Project Ref: IW-RGD/10000308 Project Stage:

Internal Project Ref: RingEIS/JBB-Y15710/TJOC-14040/RHDHV-BB4342 @A1

Drawing Title:  
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Scales: 1:1000@A1 1:2000@A3

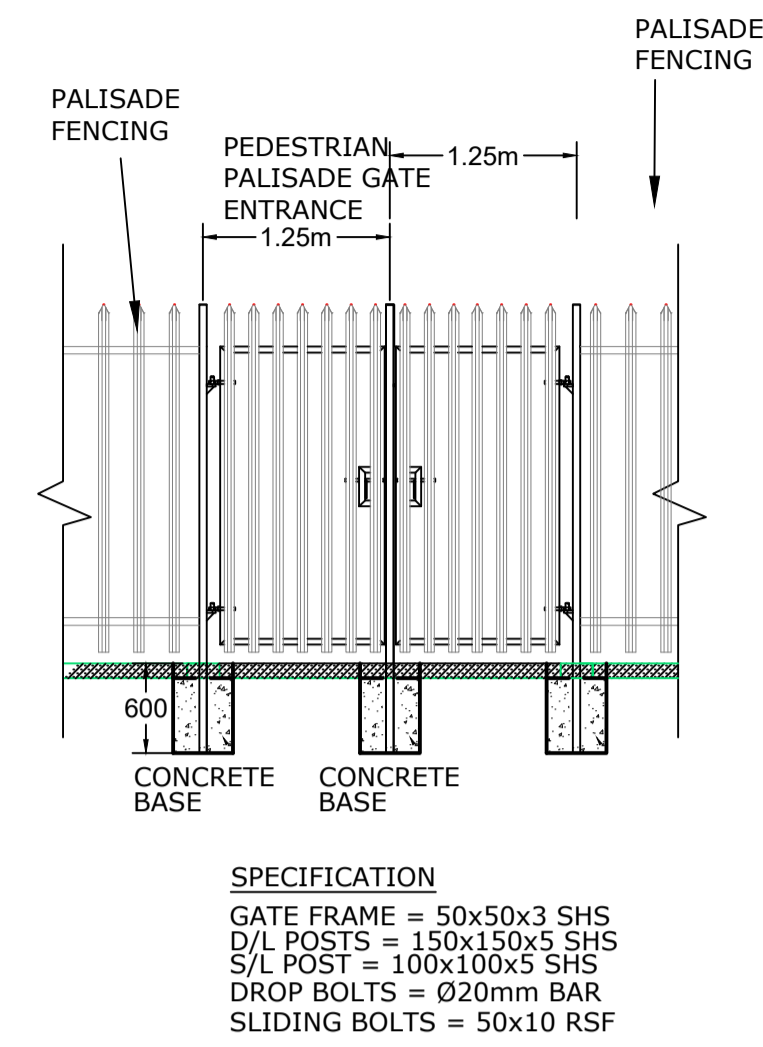
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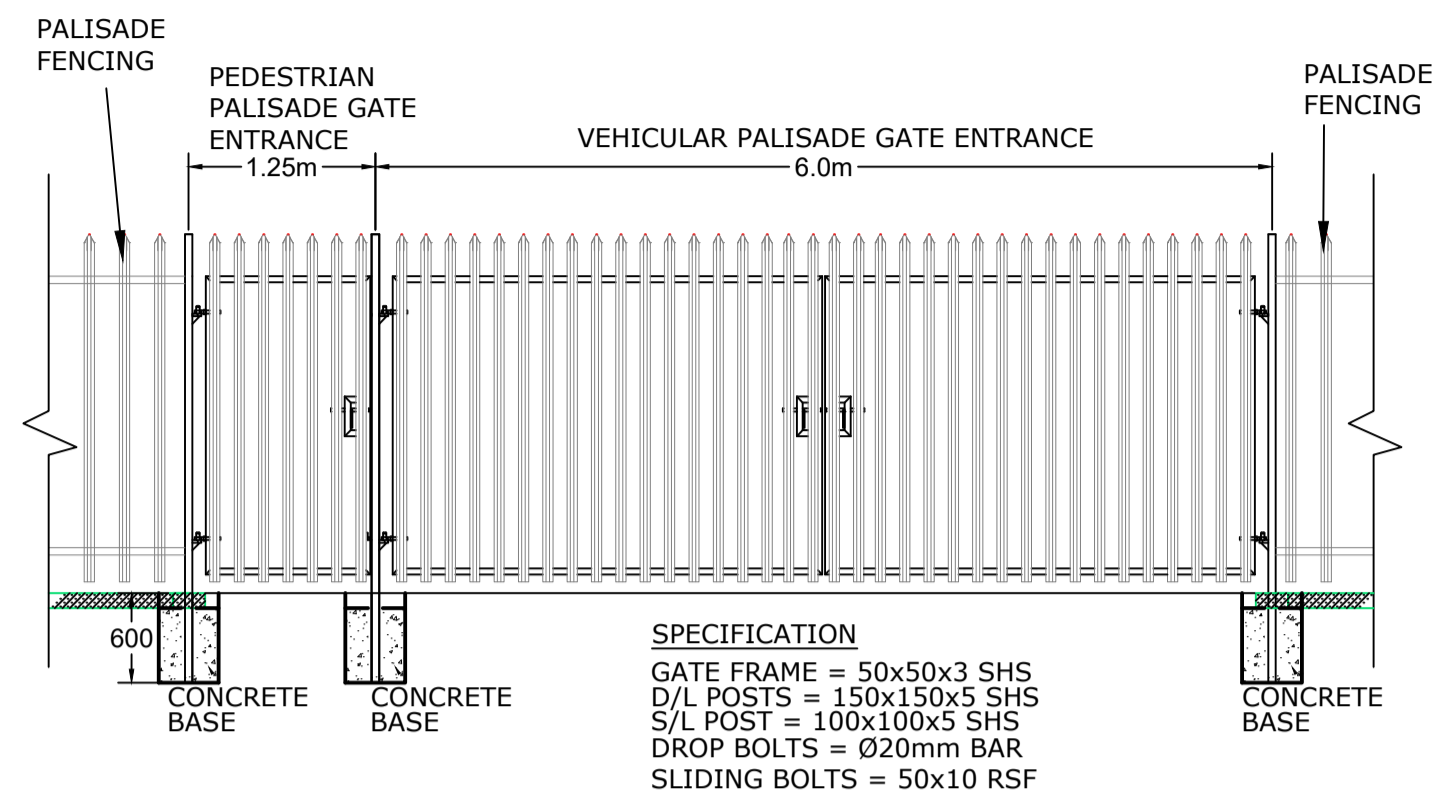


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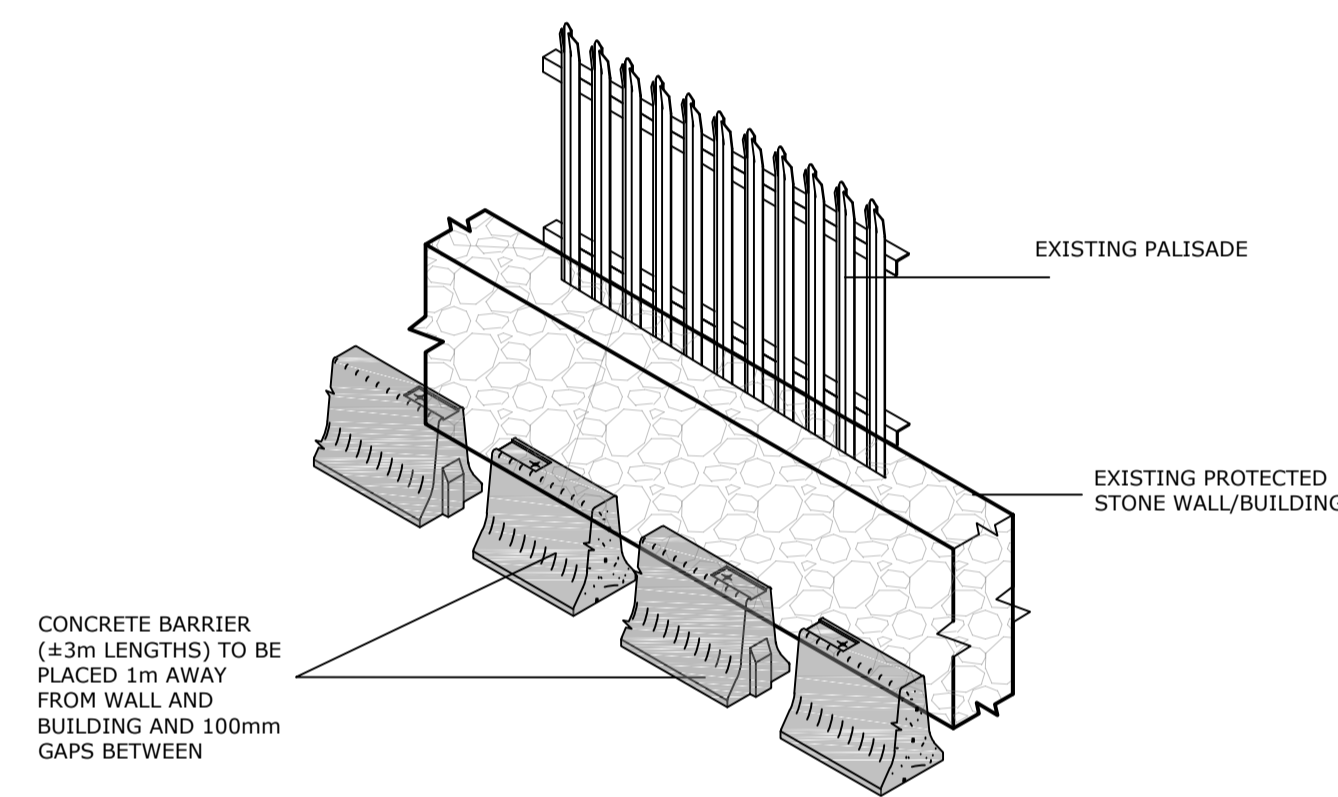
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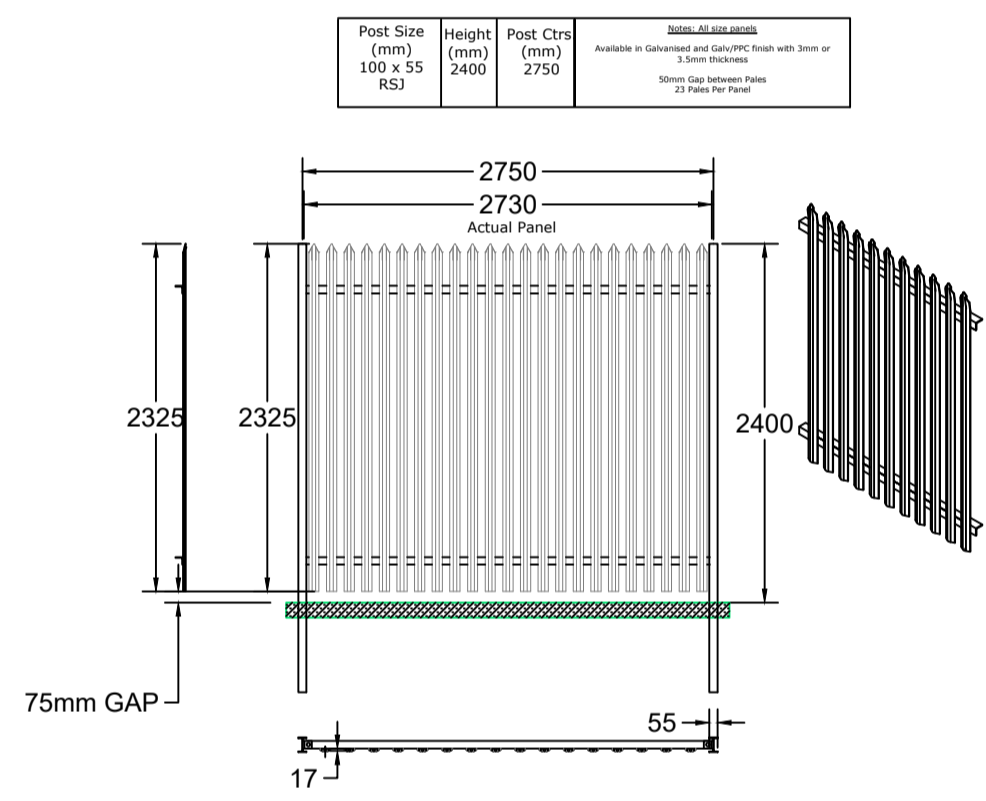
**PEDESTRIAN GATE ENTRANCE DETAIL**  
 SCALE 1:50



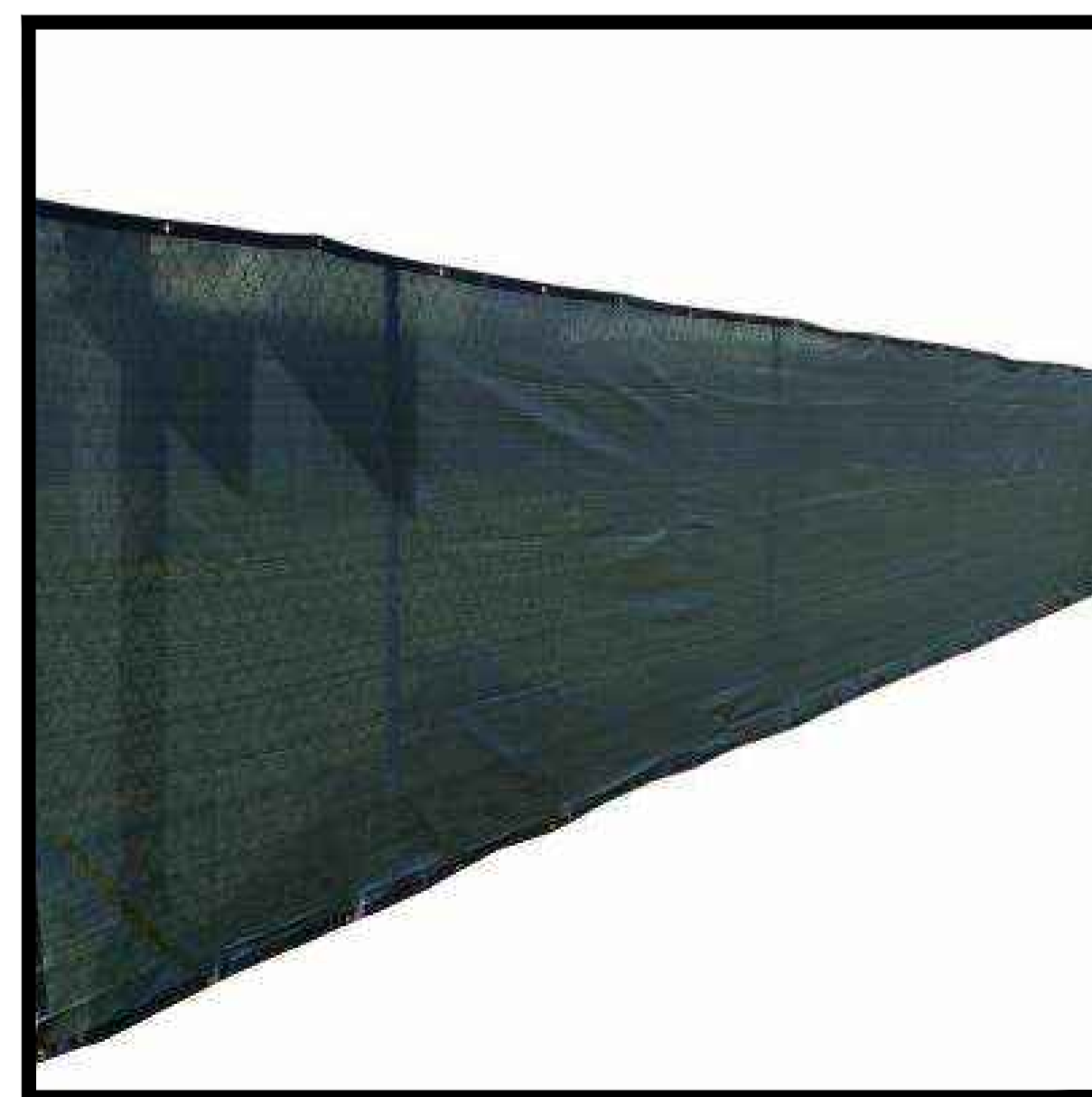
**PEDESTRIAN and VEHICLE GATE ENTRANCE DETAIL**  
 SCALE 1:50



**TYPICAL DETAIL FOR PROTECTION OF EXISTING STONE WALL AND PROTECTED BUILDING**



**PALISADE FENCE DETAIL**



**TYPICAL FENCE SCREENING TO BE ATTACHED TO PALISADE FENCING**

| Rev. | Date     | Drawn | Checked | Approved | Description      |
|------|----------|-------|---------|----------|------------------|
| A    | 18/07/17 | LHA   | ED      | MH       | S146B SUBMISSION |

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| Drawn By: | Checked By: | Approved By: | Date:    |
| LHA       | ED          | MH           | JUL 2017 |

|                     |                |
|---------------------|----------------|
| Client Project Ref: | Project Stage: |
| IW-RGD/10000308     |                |

Internal Project Ref: RingEIS/JBB-Y15710/TJOC-14040/RHDHV-BB4342 @A1

Drawing Title:  
**RINGSEND WwTP COMPOUND SITE FENCING DETAILS**

Scales: 1:50@A1 1:100@A3

|                       |               |      |
|-----------------------|---------------|------|
| Drawing Register No.: | Drawing No.:  | Rev: |
| 0887                  | Y15710/PL/008 | A    |

## Appendix 2: Letters of Consent from Landowners

19 July 2017

Mr. Donal O'Connor  
Project Manager  
Ervia Major Projects  
Colville House  
Talbot Street  
Dublin 1

Dear Mr. O'Connor,

**Re: Ringsend Wastewater Treatment Plant Upgrade Project**  
**Letter of Consent: Construction Compound C1**

Both Dublin Port Company and Dublin City Council own lands to the south-west of the Treatment Plant. These lands are currently leased by or made available to Dublin Waste to Energy Ltd for the Dublin Waste to Energy Project (as shaded orange on the attached Drawing Number Y15710/PL/013).

On behalf of Dublin Waste to Energy Ltd, I hereby consent under Article 22 of the Planning and Development Regulations 2001, as amended, to Irish Water making a single Planning Application in respect of the above specific project only, part of which relates to the lands made available to us by Dublin City Council and part of which we are leasing from Dublin Port Company.

In the event of planning permission being obtained, any disposal of any interests in property or rights in respect of property which is the subject of the planning permission shall be subject to receipt of all necessary corporate, board, lender, Dublin City Council and other consents or approvals. Please note that no agreement with Irish Water exists or shall be deemed to exist until all such consents or approvals are obtained.

Trusting the above is to your satisfaction, should you require any further information, please do not hesitate to contact me.

Yours sincerely,

  
**John Daly**  
**General Manager**



Development Department  
Civic Offices, Wood Quay, Dublin 8

Roinn Forbartha  
Oifigí na Cathrach, An Ché Adhmaid, Baile Átha Cliath 8  
T. 01 2225292 F. 01 2222682 E. aida.baragwanath@dublincity.ie

12<sup>th</sup> July 2017

Mr Donal O'Connor,  
Project Manager,  
Ervia Major Projects,  
Colvill House,  
Talbot Street,  
Dublin 1.

**Re: Ringsend Wastewater Treatment Plant Upgrade**

I confirm, as requested, Dublin City Council's consent to the inclusion of a small strip of land in its ownership, situated at the north-eastern corner of the proposed construction compound C1 (shaded green on the attached drawing no. Y15710/PL/012), in a planning application by Irish Water as part of the Ringsend wastewater plant upgrade.

The application will be submitted at the applicant's expense and, in the event of planning permission being obtained, disposal of any Council owned property at this location to the applicant is subject to any necessary statutory approvals being obtained.

Please note that no agreement enforceable at law exists or shall be deemed to exist until an exchange of contracts has taken place.



PP  
Paul Clegg  
Executive Manager



Development Department  
Civic Offices, Wood Quay, Dublin 8

Roinn Forbartha  
Oifigí na Cathrach, An Ché Adhmaid, Baile Átha Cliath 8  
T. 01 2225292 F. 01 2222682 E. aida.baragwanath@dublincity.ie

12<sup>th</sup> July 2017

Mr Donal O'Connor,  
Project Manager,  
Ervia Major Projects,  
Colvill House,  
Talbot Street,  
Dublin 1.

**Re: Ringsend Wastewater Treatment Plant Upgrade**

I confirm, as requested, Dublin City Council's consent to the inclusion of a piece of land in its ownership, situated to the north of the Ringsend treatment plant (shaded green on the attached drawing no. Y15710/PL/010), in a planning application by Irish Water. This application relates to the proposed new access into the storm tanks site as part of the Ringsend water treatment plant upgrade.

The application will be submitted at the applicant's expense and, in the event of planning permission being obtained, disposal of any Council owned property at this location to the applicant is subject to any necessary statutory approvals being obtained.

Please note that no agreement enforceable at law exists or shall be deemed to exist until an exchange of contracts has taken place.



**PP Paul Clegg**  
Executive Manager



Development Department  
Civic Offices, Wood Quay, Dublin 8

Roinn Forbartha  
Oifigí na Cathrach, An Ché Adhmaid, Baile Átha Cliath 8  
T. 01 2225292 F. 01 2222682 E. aida.baragwanath@dublincity.ie

12<sup>th</sup> July 2017

Mr Donal O'Connor,  
Project Manager,  
Ervia Major Projects,  
Colvill House,  
Talbot Street,  
Dublin 1.

**Re: Ringsend Wastewater Treatment Plant Upgrade**

I confirm, as requested, Dublin City Council's consent to the inclusion of a piece of land in its ownership, situated to the north-east of the Ringsend water treatment plant (shaded green on the attached drawing no. Y15710/PL/011), in a planning application by Irish Water, as part of the Ringsend wastewater treatment plant upgrade.

The application will be submitted at the applicant's expense and, in the event of planning permission being obtained, disposal of any Council owned property at this location to the applicant is subject to any necessary statutory approvals being obtained.

Please note that no agreement enforceable at law exists or shall be deemed to exist until an exchange of contracts has taken place.

38 **Paul Clegg**  
Executive Manager

Mr. Donal O'Connor

Project Manager

Ervia Major Projects

Date 10/7/17

**Re: Ringsend Wastewater Treatment Plant Upgrade Project**

**Letter of Consent: Construction Compound C1**

Dear Mr. O'Connor,

I refer to Dublin Port Company lands to the south-west of the Treatment Plant (as shaded blue on the attached Drawing Number Y15710/PL/012) and currently being used by Dublin Waste to Energy Ltd as a construction compound for the Dublin Waste to Energy Project.

On behalf of Dublin Port Company I hereby consent under Article 22 of the Planning and Development Regulations 2001, as amended, to Irish Water making a Planning Application in respect of the above project, part of which relates to the lands in our ownership.

This consent relates only to the lodging of this planning application and for no other purposes.



Gerry Barry

**Port Estate Development Manager**

## Appendix 3: Appropriate Assessment Screening Report





**IRISH WATER**

**PROJECT:** *RINGSEND WWTP UPGRADE PROJECT  
STRATEGIC INFRASTRUCTURE DEVELOPMENT (REF:  
29N.YA0010)*

**DOCUMENT:**

*REQUEST FOR ALTERATIONS TO THE TERMS OF THE  
DEVELOPMENT UNDER SECT. 146B OF THE  
PLANNING & DEVELOPMENT ACT 2000 (AS  
AMENDED)*

ALTERATIONS PROPOSED

REVISED COMPOUND AREAS

**SCREENING FOR APPROPRIATE ASSESSMENT**

**July 2017**

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## 1 INTRODUCTION

This report provides an Appropriate Assessment (AA) Screening of the proposed alteration to the terms of the development for the permitted Ringsend Wastewater Treatment Works (WwTW) extension which was approved by An Bord Pleanála [‘ABP’] on 16th November 2012 [ABP Ref: PL29N.YA0010]. It assesses whether the proposed alteration to the terms of the permitted development, alone or in combination with other plans and projects, is likely to have significant effects on a European Site(s) in view of best scientific knowledge and the conservation objectives of the site(s). European Sites are those identified as sites of European Community importance designated as Special Areas of Conservation under the Habitats Directive or as Special Protection Areas under the Birds Directive and candidate sites for those designations.

### 1.1 LEGISLATIVE CONTEXT

The Council Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Fauna and Flora, better known as “The Habitats Directive”, provides legal protection for habitats and species of European importance. Articles 3 to 9 provide the legislative means to protect habitats and species of Community interest through the establishment and conservation of an EU-wide network of sites known as Natura 2000. These are Special Areas of Conservation (SACs) designated under the Habitats Directive and Special Protection Areas (SPAs) designated under the Conservation of Wild Birds Directive (79/409/ECC) as codified by Directive 2009/147/EC and candidate SPAs and SACs.

Articles 6(3) and 6(4) of the Habitats Directive set out the decision-making tests for plans and projects likely to affect Natura 2000 sites (Annex 1.1). Article 6(3) establishes the requirement for Appropriate Assessment (AA):

*Any plan or project not directly connected with or necessary to the management of the [Natura 2000] site but likely to have a significant effect thereon, either individually or in combination with other plans or projects, shall be subjected to appropriate assessment of its implications for the site in view of the site’s conservation objectives. In light of the conclusions of the assessment of the implications for the site and subject to the provisions of paragraph 4, the competent national authorities shall agree to the plan or project only after having ascertained that it will not adversely affect the integrity of the site concerned and, if appropriate, after having obtained the opinion of the general public.*

Article 6(4) states:

*If, in spite of a negative assessment of the implications for the [Natura 2000] site and in the absence of alternative solutions, a plan or project must nevertheless be carried out for imperative reasons of overriding public interest, including those of a social or economic nature, Member States shall take all compensatory measures necessary to ensure that the overall coherence of Natura 2000 is protected. It shall inform the Commission of the compensatory measures adopted.*

The screening of projects to determine whether they are not directly connected with or necessary to the management of the [Natura 2000] site but likely to have a significant effect provisions is given effect in Irish law by Section 177U(1)-(5) of the Planning and Development Act 2000 (as amended).

177U.— (1) A screening for appropriate assessment of a draft Land use plan or application for consent for proposed development shall be carried out by the competent authority to assess, in view of best scientific knowledge, if that Land use plan or proposed development, individually or in combination with another plan or project is likely to have a significant effect on the European site.

(2) A competent authority shall carry out a screening for appropriate assessment under subsection (1) before—

(a) a Land use plan is made including, where appropriate, before a decision on appeal in relation to a draft strategic development zone is made, or

(b) consent for a proposed development is given.

(3) In carrying out screening for appropriate assessment of a proposed development a competent authority may request such information from the applicant as it may consider necessary to enable it to carry out that screening, and may consult with such persons as it considers appropriate and where the applicant does not provide the information within the period specified, or any further period as may be specified by the authority, the application for consent for the proposed development shall be deemed to be withdrawn.

(4) The competent authority shall determine that an appropriate assessment of a draft Land use plan or a proposed development, as the case may be, is required if it cannot be excluded, on the basis of objective information, that the draft Land use plan or proposed development, individually or in combination with other plans or projects, will have a significant effect on a European site.

(5) The competent authority shall determine that an appropriate assessment of a draft Land use plan or a proposed development, as the case may be, is not required if it can be excluded, on the basis of objective information, that the draft Land use plan or proposed development, individually or in combination with other plans or projects, will have a significant effect on a European site.

## **2 METHODOLOGY**

### **2.1 GUIDANCE FOLLOWED**

Both EU and national guidance exists in relation to Member States fulfilling their requirements under the EU Habitats Directive, with particular reference to Article 6(3) and 6(4) of that Directive. The methodology followed in relation to this AA Screening has had regard to the following guidance:

- Appropriate Assessment of Plans and Projects in Ireland: Guidance for Planning Authorities. Department of Environment, Heritage and Local Government, (DoEHLG, 2010).
- Circular L8/08 – Water Services Investment and Rural Water Programmes – Protection of Natural Heritage and National Monuments. Department of Environment, Heritage and Local Government, (DoEHLG, 2008).
- Communication from the Commission on the Precautionary Principle. Office for Official Publications of the European Communities, Luxembourg, (EC, 2000a).
- Managing Natura 2000 Sites: the provisions of Article 6 of the ‘Habitats’ Directive 92/43/EEC, Office for Official Publications of the European Communities, Luxembourg, (EC, 2000b).

- Assessment of plans and projects significantly affecting Natura 2000 sites: Methodological guidance on the provisions of Articles 6(3) and (4) of the Habitats Directive 92/43/EEC. Office for Official Publications of the European Communities, Brussels (EC, 2001).
- Guidance document on Article 6(4) of the 'Habitats Directive' 92/43/EEC – Clarification of the concepts of: alternative solutions, imperative reasons of overriding public interest, compensatory measures, overall coherence, opinion of the Commission. Office for Official Publications of the European Communities, Luxembourg, (EC, 2007).
- Nature and biodiversity cases: Ruling of the European Court of Justice. Office for Official Publications of the European Communities, Luxembourg (EC, 2006).
- Marine Natura Impact Statements in Irish Special Areas of Conservation: A working document, National Parks and Wildlife Service, Dublin (NPWS, 2012).
- European Communities (Birds and Natural Habitats) Regulations, 2011 (S.I. No.477 of 2011).
- Interpretation Manual of European Union Habitats. Version EUR 28. European Commission (EC, 2013).

## **2.2 STAGES INVOLVED IN THE APPROPRIATE ASSESSMENT PROCESS**

### **2.2.1 Stage 1: Screening / Test of Significance**

- This process identifies whether the project is directly connected to or necessary for the management of a European Site(s); and identifies whether the project is likely to have significant effects upon any European Site either alone or in combination with other projects or plans.
- The output from this stage is a determination for each European Site of not significant, significant, potentially significant, or uncertain effects. The latter three determinations mean that that it cannot be excluded, on the basis of objective information, that the proposed development, individually or in combination with other plans or projects, will have a significant effect on a European Site. The relevant project is accordingly brought forward to Stage 2.

### **2.2.2 Stage 2: Appropriate Assessment**

- This stage considers the impact of the project on the integrity of a European Site(s), either alone or in combination with other projects or plans, with respect to (1) the site's conservation objectives; and (2) the site's structure and function and its overall integrity. Additionally, where there are adverse impacts, an assessment of the potential mitigation of those impacts.
- The output from this stage is a Natura Impact Statement (NIS). If the assessment still determines potential for negative impacts with the inclusion of proposed mitigation measures, i.e. adverse effects on the integrity of a site cannot be excluded, then the process must consider alternatives (Stage 3) or proceed to Stage 4.

### **2.2.3 Stage 3: Assessment of Alternatives**

- This process examines alternative ways of achieving the objectives of the project or plan that avoid adverse impacts on the integrity of the European Site. This assessment may be carried out concurrently with Stage 2 in order to find the most appropriate solution. If no alternatives exist or all alternatives would result in negative impacts to the integrity of the European sites then the process either moves to Stage 4 or the project is abandoned.

#### **2.2.4 Stage 4: Assessment Where Adverse Impacts Remain**

- An assessment of compensatory measures where, in the light of an assessment of Imperative Reasons of Overriding Public Interest (IROPI), it is deemed that the project or plan should proceed.

### **2.3 STAGE 1: SCREENING / TEST OF SIGNIFICANCE**

In complying with the obligations under Article 6(3) and following the appropriate guidelines, this AA Screening has been structured as a stage by stage approach as follows:

- Description of the project;
- Identification of Natura 2000 sites potentially affected;
- Identification and description of individual and cumulative impacts from the project;
- Assessment of the significance of the impacts identified above on-site integrity;
- Exclusion of sites where it can be objectively concluded that there will be no significant effects; and
- Screening conclusion.

### **3 SCREENING**

#### **3.1 MANAGEMENT OF THE SITE**

The proposed alteration to the terms of the SID application are not directly connected with or necessary to the management of any site for nature conservation.

#### **3.2 DESCRIPTION OF THE PROJECT**

##### **3.2.1 Approved SID Development**

An application by Dublin City Council ['DCC'] to expand the Ringsend Wastewater Treatment Works ['WwTW'] was approved by An Bord Pleanála ['ABP'] on 16th November 2012 [ABP Ref: PL29N.YA0010]. This decision was subsequently challenged by way of judicial review, which challenge was dismissed by the High Court on 19<sup>th</sup> November 2013. This approval ['Ringsend SID Approval'] provides for the relocation of the WwTW's treated effluent outfall from the Lower Liffey Estuary to a point c. 9km east in Dublin Bay and for a 'secondary treatment' expansion in the WwTW's processing capacity. The development comprises the following main elements:

**Element 1** – Immediate Upgrades; Immediate upgrades to facilitate a number of incremental improvements in process performance and to facilitate the extension in secondary treatment capacity

**Element 2** – Extension to the Existing Wastewater Treatment Plant; Expansion of secondary wastewater treatment capacity at the wastewater treatment plant site (approximately 400,000 population equivalent) including associated solids handling and ancillary plant.

**Element 3** – Effluent Outfall Tunnel Extension; A 9 kilometre large diameter Long Sea Outfall (in tunnel), (LSOT) commencing at an onshore inlet shaft approximately 350 metres east of the wastewater treatment plant and terminating in an underwater outlet riser/diffuser in Dublin Bay.

**Element 4** – Road Improvements; Road network improvements in the vicinity of the site (during the construction phase).

The Board conducted an Environment Impact Assessment and concluded that, subject to compliance with the conditions, the proposed development would not adversely impact upon the environment. The Board considered that the proposed development would be likely to enhance the quality of water in Dublin Bay, which in turn, would improve its amenity value and ecology.

The Board completed an Appropriate Assessment of potential impacts of the proposed development on the South Dublin Bay and River Tolka Estuary Special Protection Area, the North Bull Island Special Protection Area, the Howth Head Coast Special Protection Area, the South Dublin Bay Special Area of Conservation, the North Dublin Bay Special Area of Conservation and the Howth Head Special Area of Conservation and other nearby European sites. Taking into account the Natura Impact Statement submitted and the Inspector's assessment, the Board concluded that, on the basis of the information available, the proposed development, either individually or in combination with other plans or projects, would not adversely impact on the integrity of designated Natura 2000 Sites in Dublin Bay in view of the conservation objectives for the site.

In addition, the Conditions set out in the An Bord Pleanála Grant of Permission will ensure that the identified Natura 2000 Sites in the vicinity of the WwTW extension works are protected, and include a number of relevant conditions referenced hereinafter.

### **3.2.2 Conditions**

1. The development shall be carried out and completed in accordance with the plans and particulars lodged with the application and the information contained in the environmental impact statement, including all mitigation measures contained therein, as amended by the further plans and particulars submitted at the oral hearing, except as may otherwise be required in order to comply with the following conditions.

**Reason:** In the interest of clarity.

2. The proposed development shall be constructed to a standard capable of complying with the following treated maximum effluent values:

Biochemical Oxygen Demand – 25mg/l

Total Suspended Solids – 35 mg/l

**Reason:** In the interest of clarity and to comply with the requirements of the Urban Wastewater Treatment Regulations (S.I. No. 254 of 2001).

5. A construction stage environmental management plan (CSEMP), including all construction method statements, shall be prepared by the developer and implemented by the contractor. The developer shall retain responsibility for overseeing, updating and enforcing the construction environmental management plan. The construction environmental management plan shall adhere to the following requirements:

- a) All preventative and management measures to be applied throughout the construction phase shall be set out so that all potential impacts are minimised, mitigated, or avoided.
- b) All measures to be employed in relation to spill contingencies, spoil disposal, management of contaminated soil, the selection of slurry additives and drilling fluids.
- c) Measures set out in the Construction Industry Research and Information Association (CIRIA) on the control and management of water pollution from construction sites shall be adhered to.
- d) All fuels or chemicals kept on the construction site shall be stored in bunded containers. All refuelling and maintenance of vehicles and equipment shall be carried out in designated containment areas away from sensitive environments.
- e) Any waste or hazardous waste residuals or potentially contaminated sludge from spill clean-up shall be stored in appropriate receptacles or containers, or in bunded storage areas prior to their removal by the developer or EPA licenced contractor.
- f) Any discharges arising from the construction phase shall incorporate silt removal and hydrocarbon removal using a hydrocarbon interceptor.
- g) Weekly monitoring of the water quality being discharged off the site shall take place during the construction phase.
- h) Upon the commencement of construction, the CSEMP will be reviewed according to a regular timeframe and will be updated if necessary. Environmental auditing will be undertaken to ensure compliance with the CSEMP.

**Reason:** In the interest of the protection of the environment during the construction phase.



11. All works to be undertaken within and adjacent to Natura 2000 Sites within Dublin Bay will be undertaken in accordance with the requirements of a suitably qualified ecologist appointed following consultation with the National Parks and Wildlife Service.

**Reason:** In the interest of ecological protection.

12. The developer shall participate in the detailed monitoring of bird species and bird numbers together with their distribution within the Dublin Bay Area over the next six-year period from the date of this order. Details of the exact nature and composition of the surveys shall be agreed in consultation with the National Parks and Wildlife Service.

**Reason:** To add to the scientific knowledge of the ecology of Dublin Bay.

### **3.3 PROJECT IMPLEMENTATION**

The Ringsend SID Approval is being implemented by Irish Water (IW) and a number of works under Element 1 (Immediate Upgrades) have already been completed and others are under way. Element 2 (extension to the existing WwTP) is currently at tender stage. Some land-based aspects of Element 3 (LSOT) were implemented by DCC as advance works in 2013 in order to avail of EIS/NIS implementation windows [Condition 10 of the SID Approval] and to comply with Condition 13. These advanced works include:

- the installation by the ESB of LSOT power cables (for the LSOT Tunnel Boring Machine) beneath grasslands adjacent to the southern boundary [Advanced Works 1],
- construction of a c. 120m long access road from the Pigeon House Road to the south-east corner of the existing WwTW [**Advanced Works 2**]; and
- the installation of services, pedestrian safety measures, and the strengthening and upgrading of the Pigeon House Road for a distance of c. 675m east of the entrance to the ESB Poolbeg P.S Site [**Advanced Works 3**].

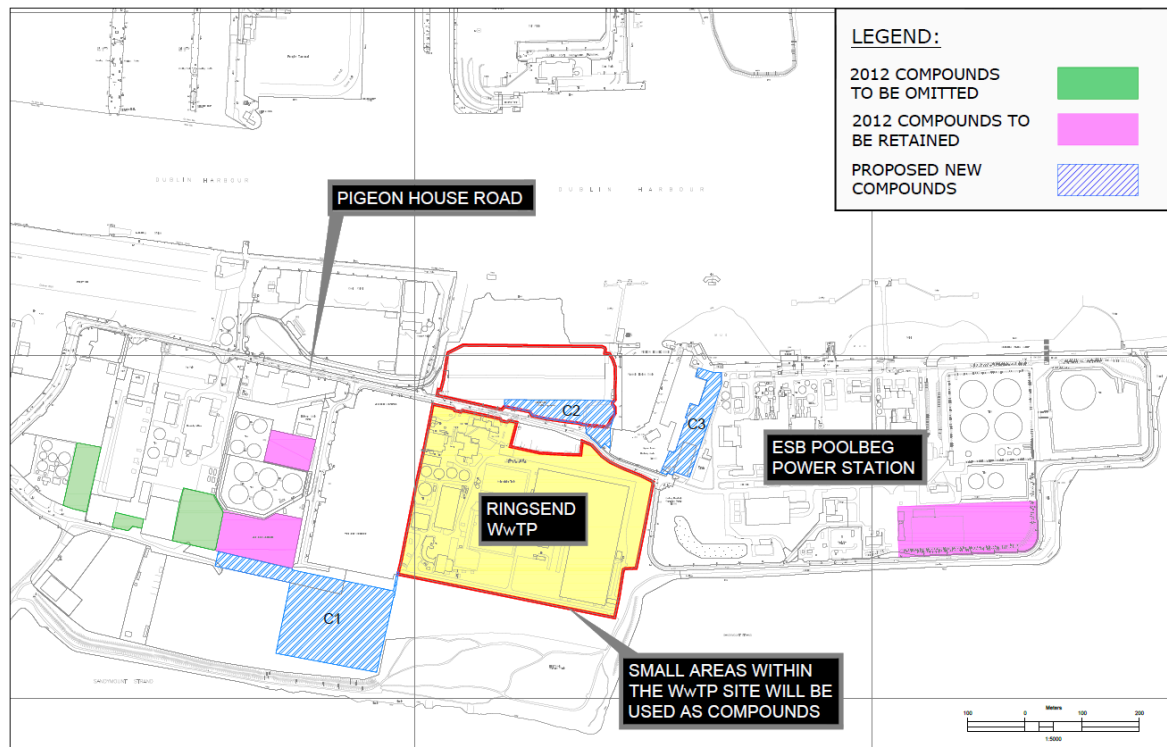
*Note –Advanced Works 2 & 3 include the continuation of the ESB TBM Power Supply cables down to the LSOT on-shore Launch Shaft.*

### **3.4 ALTERATIONS BEING REQUESTED**

This alteration arises from the lack of availability of three of the construction compounds granted under the 2012 approval (described in section 4.4.6 of the EIS submitted with SID Ref. PL29N.YA0010). Under the 2012 Approval, the off-site locations for temporary site compounds were located on lands controlled by third parties. However, it is now the case that three of the locations to the west of the WwTP are no longer available due to changes in the operational requirements of the owners.

Further, other sites have been identified that have become available, and which are located closer to the Wastewater Treatment Plant. In particular, the Dublin Waste to Energy project (Covanta development adjoining the WwTP) is completed and at operational stage with the associated construction site compound (Site C1) made available for use on the Ringsend WWTP Upgrade project subject to An Bord Pleanála consent. This was not available in 2012 for the works at the WwTP. This location will be available to Irish Water for a relatively short period of time.

Under the 2012 approval An Bord Pleanála granted consent for the provision of six off-site construction compounds to facilitate delivery of the WwTP upgrade works. Three of these compounds remain available and it is intended that these will be retained and made available to the proposed contractor (locations marked coloured magenta on Drawing Y15710/PL/001 below). The three compounds to be omitted are marked plain green on the drawing. The proposed three new compounds the subject of this S146B application are marked blue on the drawing and labelled C1, C2 and C3. It is intended that Irish Water will therefore continue to provide six temporary construction site compounds to facilitate the upgrade works.



**Figure 3.1: Proposed Alterations**

Given the strategic significance of the planned upgrade to Ringsend, Irish Water has taken steps to ensure that there is sufficient flexibility in the available temporary compounds so that the required upgrade works can take place. In doing so, Irish Water is conscious that the Contractor appointed to undertake the upgrade will determine how best to use the available compound space so as to complete the project as efficiently as possible and that not all of the compounds are expected to be available throughout the entire period of the construction stage.

Having regard to all of the above the alteration being requested comprises the following elements;

- Omission of three approved construction site compounds, indicated on Drawing Y15710/PL/001, granted by An Bord Pleanála under ABP Ref: 29N.YA0010 to facilitate construction of the proposed Ringsend WwTP upgrade development, and
- Provision of three new temporary construction site compounds at alternative locations as replacement facilities, labelled C1, C2 and C3 on Drawing Y15170/PL/001. Full details of the proposed alterations are set out in the enclosed Project Report.

These alterations, if approved, will significantly improve access to the WwTP site, increase construction works flexibility, and facilitate the management of safety, health and welfare at work on the project. In particular, the proposed alterations will provide for:

- the separation of construction works traffic from employee traffic at Compound C1 with the use of a pedestrian access route to the north-eastern corner;
- the better delineation and separation of different works compounds to facilitate the works;
- the increased segregation of HGV traffic from vehicular and pedestrian construction staff traffic accessing the WwTP site; and
- a reduction in the volume of HGV traffic required to pass along Pigeon House Road.

### **3.5 DESCRIPTION OF THE SURROUNDING ENVIRONMENT**

The alterations being requested will take place outside the current WwTP site. The artificial surfaces and outbuildings within the proposed compounds are of no significant ecological value, but are located adjacent to and in the vicinity of South Dublin Bay and River Tolka Estuary Special Protection Area, the North Bull Island Special Protection Area, the Howth Head Coast Special Protection Area, the South Dublin Bay Special Area of Conservation, the North Dublin Bay Special Area of Conservation and the Howth Head Special Area of Conservation and other nearby European sites.

### **3.6 BRIEF DESCRIPTION OF THE NATURA 2000 SITES**

This section of the screening process describes the Natura 2000 sites within a 15km radius of the proposed alterations to the terms of the SID application. This buffer zone has been chosen as a precautionary measure, to ensure that all potentially affected Natura 2000 sites are included in the screening process, which is in line with Appropriate Assessment of Plans and Projects in Ireland – Guidance for Planning Authorities produced by the Department of the Environment, Heritage and Local Government.

Table 1.0 lists the SACs and Table 2.0 lists the SPAs that are within 15km of the proposed works area, and Figure 3.2 and 3.3 shows their location in relation to the proposed alterations. The qualifying interests of each of the identified Natura 2000 Sites is also provided.

**Table 1.0: SACs located within 15km of the Proposed Alterations at Ringsend WwTW**

| <b>Site Code</b> | <b>Site Name</b>     | <b>Qualifying Habitats</b>  | <b>Qualifying Species</b>                |
|------------------|----------------------|---|--|
| 000210           | South Dublin Bay SAC | Mudflats and sandflats not covered by seawater at low tide  | -  |
| 000206           | North Dublin Bay SAC | Mudflats and sandflats not covered by seawater at low tide<br>Salicornia and other annuals colonizing mud and sand<br>Atlantic salt meadows ( <i>Glauco-Puccinellietalia maritima</i> )<br>Mediterranean salt meadows ( <i>Juncetalia maritimi</i> )<br>Shifting dunes along the shoreline with <i>Ammophila arenaria</i> (white dunes)<br>Fixed coastal dunes with herbaceous vegetation (grey dunes)<br>Annual vegetation of drift lines<br>Embryonic shifting dunes<br>Humid dune slacks | <i>Petalophyllum ralfsii</i> (Petalwort) |

**Ringsend Waste Water Treatment Works -S146B Application (Revised Compound Areas): Appropriate Assessment Screening Report**

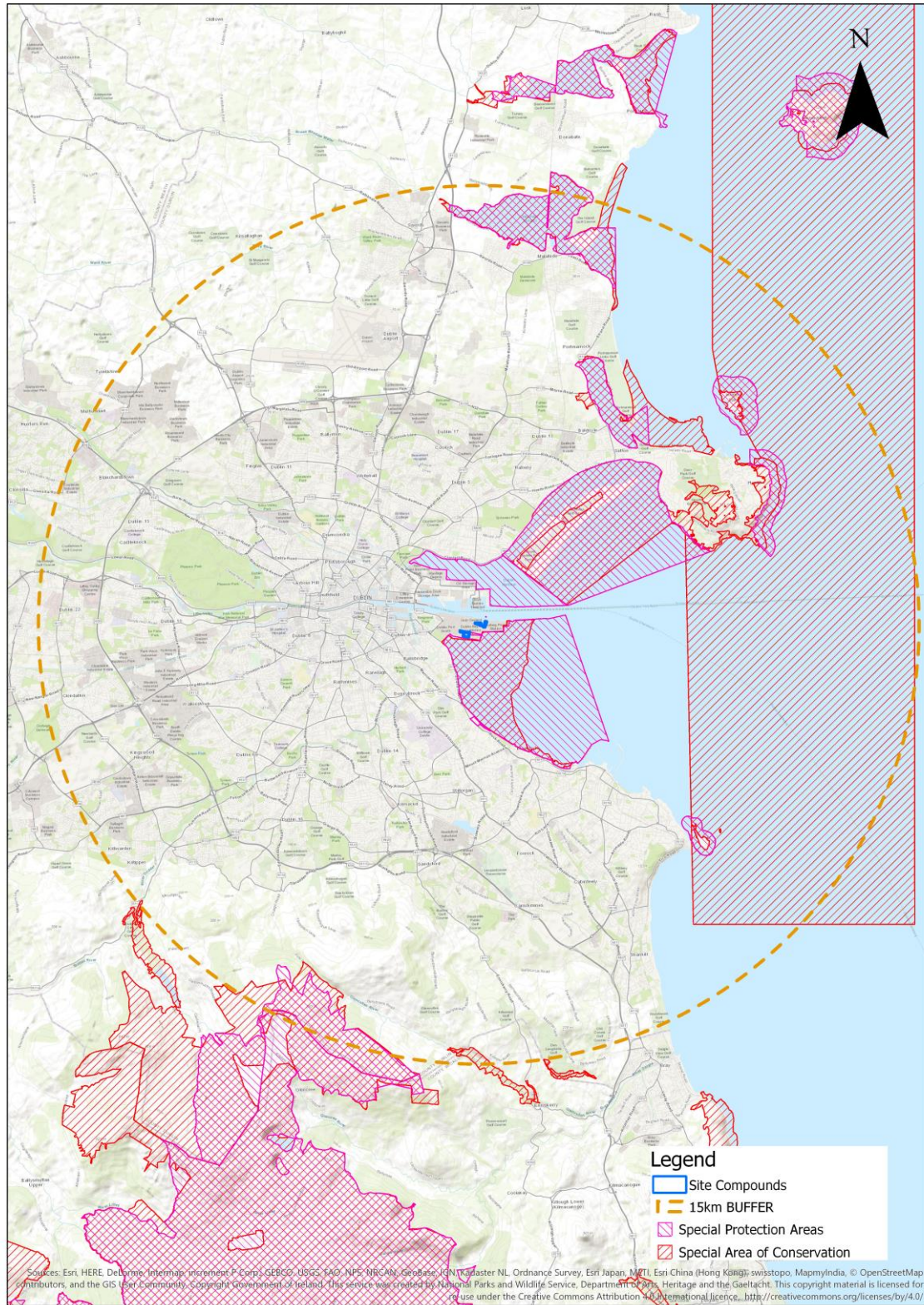
| Site Code | Site Name                      | Qualifying Habitats   | Qualifying Species                             |
|-----------|--------------------------------|---|--|
| 000199    | Baldoyle Bay SAC               | Mudflats and sandflats not covered by seawater at low tide<br>Salicornia and other annuals colonizing mud and sand<br>Atlantic salt meadows ( <i>Glauco-Puccinellietalia maritima</i> )<br>Mediterranean salt meadows ( <i>Juncetalia maritimi</i> )  |  |
| 000202    | Howth Head SAC                 | Vegetated sea cliffs of the Atlantic and Baltic coasts<br>European dry heaths   |  |
| 002193    | Ireland's Eye SAC              | Vegetated sea cliffs of the Atlantic and Baltic coasts<br>Perennial vegetation of stony banks   |  |
| 003000    | Rockabill to Dalkey Island SAC | Reefs   | <i>Phocoena phocoena</i><br>(Harbour porpoise) |
| 000205    | Malahide Estuary SAC           | Mudflats and sandflats not covered by seawater at low tide<br>Salicornia and other annuals colonizing mud and sand<br>Atlantic salt meadows ( <i>Glauco-Puccinellietalia maritima</i> )<br>Mediterranean salt meadows ( <i>Juncetalia maritimi</i> )<br>Shifting dunes along the shoreline with <i>Ammophila arenaria</i> (white dunes)<br>*Fixed coastal dunes with herbaceous vegetation (grey dunes)   |  |
| 002122    | Wicklow Mountains SAC          | Oligotrophic to mesotrophic standing waters with vegetation of the <i>Littorelletea uniflorae</i> and/or <i>Isoeto-Nanojuncetea</i> [3130]<br>Natural dystrophic lakes and ponds [3160]<br>Northern Atlantic wet heaths with <i>Erica tetralix</i> [4010]<br>European dry heaths [4030]<br>Alpine and Boreal heaths [4060]<br>Species-rich <i>Nardus</i> grasslands, on siliceous substrates in mountain areas (and submountain areas, in Continental Europe) [6230]<br>Blanket bogs (* if active bog) [7130]<br>Siliceous scree of the montane to snow levels ( <i>Androsacetalia alpinae</i> and <i>Galeopsietalia ladani</i> ) [8110]<br>Calcareous rocky slopes with chasmophytic vegetation [8210]<br>Siliceous rocky slopes with chasmophytic vegetation [8220]<br>Old sessile oak woods with <i>Ilex</i> and <i>Blechnum</i> in the British Isles [91A0] | <i>Lutra lutra</i> (Otter) [1355]              |
| 001209    | Glenasmole Valley SAC          | Semi-natural dry grasslands and scrubland facies on calcareous substrates ( <i>Festuco-Brometalia</i> ) (* important orchid sites) [6210]<br><i>Molinia</i> meadows on calcareous, peaty or clayey-silt-laden soils ( <i>Molinion caeruleae</i> ) [6410]<br>Petrifying springs with tufa formation ( <i>Cratoneurion</i> ) [7220]   |  |
| 000725    | Knocksink Woods SAC            | Petrifying springs with tufa formation ( <i>Cratoneurion</i> ) [7220]<br>Alluvial forests with <i>Alnus glutinosa</i> and <i>Fraxinus excelsior</i> ( <i>Alno-Padion</i> , <i>Alnion incanae</i> , <i>Salicion albae</i> ) [91E0]   |  |
| 000713    | Ballyman Glen SAC              | Petrifying springs with tufa formation ( <i>Cratoneurion</i> ) [7220]<br>Alkaline fens [7230]   |  |

**Table 2.0: SPAs located within 15km of the Proposed Alterations at Ringsend WwTW**

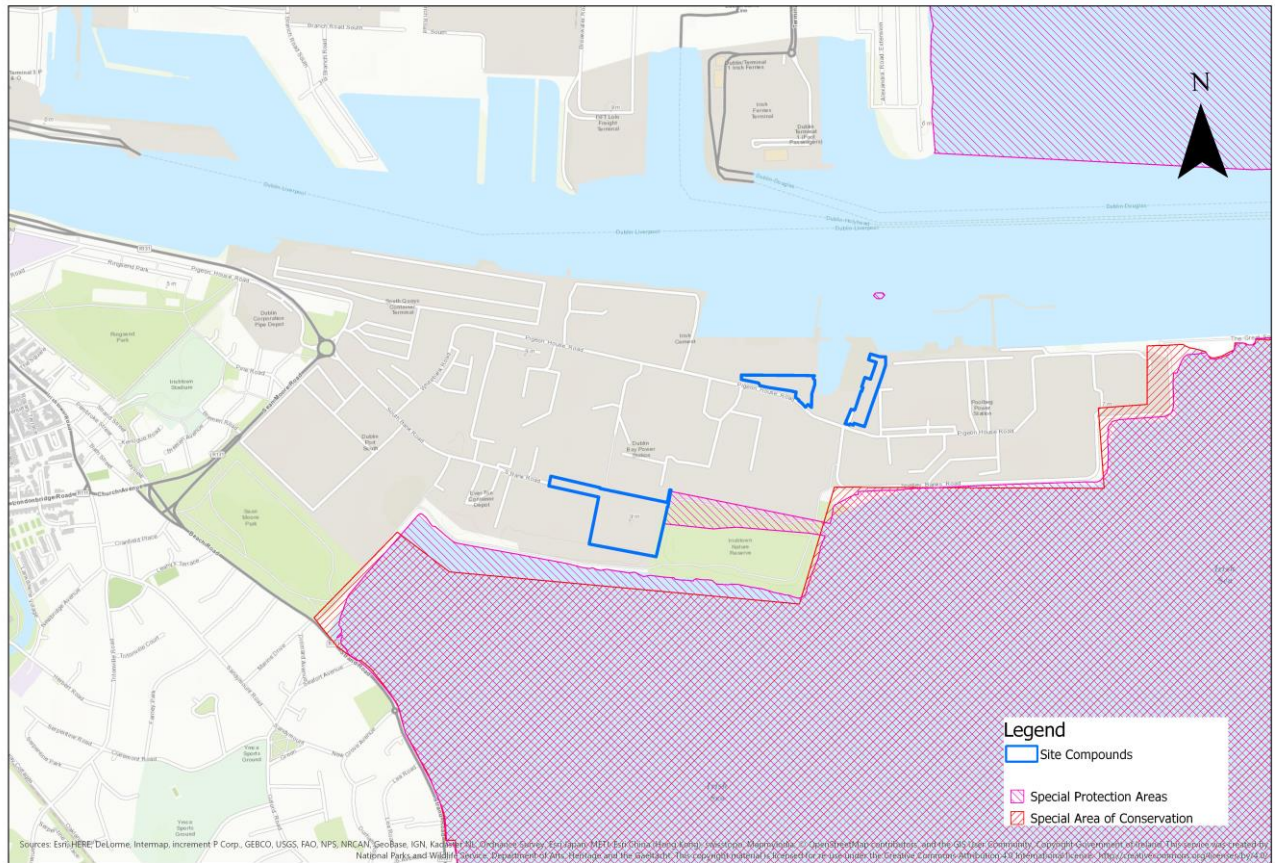
| Site Code | Site Name                                    | Qualifying Features – Annex I Species  |
|-----------|--|--|
| 004006    | North Bull Island SPA                        | Light-bellied Brent Goose ( <i>Branta bernicla hrota</i> ) [A046] (wintering)<br>Shelduck ( <i>Tadorna tadorna</i> ) [A048] (wintering)<br>Teal ( <i>Anas crecca</i> ) [A052] (wintering)<br>Pintail ( <i>Anas acuta</i> ) [A054] (wintering)<br>Shoveler ( <i>Anas clypeata</i> ) [A056] (wintering)<br>Oystercatcher ( <i>Haematopus ostralegus</i> ) [A130] (wintering)<br>Golden Plover ( <i>Pluvialis apricaria</i> ) [A140] (wintering)<br>Grey Plover ( <i>Pluvialis squatarola</i> ) [A141] (wintering)<br>Knot ( <i>Calidris canutus</i> ) [A143] (wintering)<br>Sanderling ( <i>Calidris alba</i> ) [A144] (wintering)<br>Dunlin ( <i>Calidris alpina</i> ) [A149] (wintering)<br>Black-tailed Godwit ( <i>Limosa limosa</i> ) [A156] (wintering)<br>Bar-tailed Godwit ( <i>Limosa lapponica</i> ) [A157] (wintering)<br>Curlew ( <i>Numenius arquata</i> ) [A160] (wintering)<br>Redshank ( <i>Tringa totanus</i> ) [A162] (wintering)<br>Turnstone ( <i>Arenaria interpres</i> ) [A169] (wintering)<br>Black-headed Gull ( <i>Chroicocephalus ridibundus</i> ) [A179] (wintering)<br>Wetlands [A999] |
| 004024    | South Dublin Bay and River Tolka Estuary SPA | Light-bellied Brent Goose ( <i>Branta bernicla hrota</i> ) [A046] (wintering)<br>Oystercatcher ( <i>Haematopus ostralegus</i> ) [A130] (wintering)<br>Ringed Plover ( <i>Charadrius hiaticula</i> ) [A137] (wintering)<br>Grey Plover ( <i>Pluvialis squatarola</i> ) [A140] (wintering)<br>Knot ( <i>Calidris canutus</i> ) [A143] (wintering)<br>Sanderling ( <i>Calidris alba</i> ) [A144] (wintering)<br>Dunlin ( <i>Calidris alpina</i> ) [A149] (wintering)<br>Bar-tailed Godwit ( <i>Limosa lapponica</i> ) [A157] (wintering)<br>Redshank ( <i>Tringa totanus</i> ) [A162] (wintering)<br>Black-headed Gull ( <i>Croicocephalus ridibundus</i> ) [A179] (wintering)<br>Roseate Tern ( <i>Sterna dougallii</i> ) [A192] (passage)<br>Common Tern ( <i>Sterna hirundo</i> ) [A193] (breeding + passage)<br>Arctic Tern ( <i>Sterna paradisaea</i> ) [A194] (passage)<br>Wetlands [A999]  |
| 004113    | Howth Head Coast SPA                         | Kittiwake ( <i>Rissa tridactyla</i> ) [A188] (breeding)  |
| 004117    | Ireland's Eye SPA                            | Cormorant ( <i>Phalacrocorax carbo</i> ) [A017] (breeding)<br>Herring Gull ( <i>Larus argentatus</i> ) [A184] (breeding)<br>Kittiwake ( <i>Rissa tridactyla</i> ) [A188] (breeding)<br>Guillemot ( <i>Uria aalge</i> ) [A199] (breeding)<br>Razorbill ( <i>Alca torda</i> ) [A200] (breeding)  |
| 004172    | Dalkey Island SPA                            | Roseate Tern ( <i>Sterna dougallii</i> ) [A192] (passage)<br>Common Tern ( <i>Sterna hirundo</i> ) [A193] (passage)<br>Arctic Tern ( <i>Sterna paradisaea</i> ) [A194] (passage)   |
| 004025    | Malahide Estuary SPA                         | Great Crested Grebe ( <i>Podiceps cristatus</i> ) [A005] (wintering)<br>Light-bellied Brent Goose ( <i>Branta bernicla hrota</i> ) [A046] (wintering)<br>Shelduck ( <i>Tadorna tadorna</i> ) [A048] (wintering)<br>Pintail ( <i>Anas acuta</i> ) [A054] (wintering)<br>Goldeneye ( <i>Bucephala clangula</i> ) [A067] (wintering)<br>Red-breasted Merganser ( <i>Mergus serrator</i> ) [A069] (wintering)<br>Oystercatcher ( <i>Haematopus ostralegus</i> ) [A130] (wintering)<br>Golden Plover ( <i>Pluvialis apricaria</i> ) [A140] (wintering)<br>Grey Plover ( <i>Pluvialis squatarola</i> ) [A141] (wintering)<br>Knot ( <i>Calidris canutus</i> ) [A143] (wintering)<br>Dunlin ( <i>Calidris alpina</i> ) [A149] (wintering)<br>Black-tailed Godwit ( <i>Limosa limosa</i> ) [A156] (wintering)<br>Bar-tailed Godwit ( <i>Limosa lapponica</i> ) [A157] (wintering)<br>Redshank ( <i>Tringa totanus</i> ) [A162] (wintering)<br>Wetlands [A999]  |

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| Site Code | Site Name             | Qualifying Features – Annex I Species   |
|-----------|-----------------------|---|
| 004016    | Baldoyle Bay SPA      | Light-bellied Brent Goose ( <i>Branta bernicla hrota</i> ) [A046] (wintering)<br>Shelduck ( <i>Tadorna tadorna</i> ) [A048] (wintering)<br>Ringed Plover ( <i>Charadrius hiaticula</i> ) [A137] (wintering)<br>Golden Plover ( <i>Pluvialis apricaria</i> ) [A140] (wintering)<br>Grey Plover ( <i>Pluvialis squatarola</i> ) [A141] (wintering)<br>Bar-tailed Godwit ( <i>Limosa lapponica</i> ) [A157] (wintering)<br>Wetlands [A999] |
| 004040    | Wicklow Mountains SPA | Merlin ( <i>Falco columbarius</i> ) [A098]<br>Peregrine ( <i>Falco peregrinus</i> ) [A103]  |



**Figure 3.2: Natura 2000 Sites & Proposed Alterations at Ringsend WwTP**



**Figure 3.3: Natura 2000 Sites & Proposed Alterations at Ringsend WwTP**



## **4 Possible Effects of the Proposed Alterations on the Natura 2000 Sites**

The purpose of this section of the screening is to examine the possibility that the proposed alterations to the terms of the SID application, either individually or in combination with other plans and projects, may result in significant effects on the Conservation Objectives and the integrity of the Natura 2000 Sites identified.

### **4.1 DIRECT, INDIRECT OR SECONDARY IMPACTS**

Tables 1.0 and 2.0 list the Natura 2000 sites within 15km of the proposed works area. There are 19 sites in all, 11 SACs and 8 SPAs. None of the Natura 2000 sites lie within the boundaries of the proposed works area; therefore, no direct impacts will occur through landtake or fragmentation of habitats.

The proposed alteration works will incorporate the necessary avoidance measures as identified in the EIS and NIS, and the Boards Conditions in the Grant of Permission [ABP Ref: 29N.YA0010], in particular Conditions 5 and 11, to ensure the avoidance of any polluting substances from entering the adjacent Natura 2000 sites, i.e. South Dublin Bay and River Tolka Estuary SPA and South Dublin Bay SAC. Furthermore, there will be no change in the nature of onsite activities to that which has previously been approved in 2012. Therefore, it is not anticipated that the proposed alterations work will impact on the adjacent South Dublin Bay and River Tolka Estuary SPA and South Dublin Bay SAC, or any of the Natura 2000 sites identified. The revised traffic circulation and movement patterns associated with the development will have no impact on European Sites.

It is not anticipated that the proposed alteration works will result in any impacts on the SPAs (North Bull Island SPA, South Dublin Bay and River Tolka Estuary SPA, Howth Head Coast SPA, Ireland's Eye SPA, Dalkey Island SPA, Malahide Estuary SPA, Wicklow Mountains SPA and Baldoyle Bay SPA) and SACs (South Dublin Bay SAC, North Dublin Bay SAC, Baldoyle Bay SAC, Howth Head SAC, Ireland's Eye SAC, Rockabill to Dalkey Island SAC, Malahide Estuary SAC, Wicklow Mountains SAC, Glenasmole Valley SAC, Knocksink Woods SAC, Ballyman Glen SAC) within the 15km boundary.

### **4.2 CUMULATIVE AND IN COMBINATION IMPACTS**

It is not anticipated that the proposed alteration works will result in any impacts on the SPAs and SACs within the 15km boundary. No other pathway has been identified by which any plan or project could have a significant 'in combination' effect on any of the Natura 2000 sites.

### **4.3 SCREENING ASSESSMENT**

Table 3.0 provides a summary of the likely significant impacts of the proposed alteration works on the conservation objectives of the identified Natura 2000 sites in Tables 1.0 and 2.0.

**Table 3.0: Potential Significant Impacts on Natura 2000 sites from the Proposed Works at Ringsend WwTP**

| Site Name                                       | Direct Impacts                      | Indirect/<br>Secondary              | Resource<br>Requirements<br>(Drinking Water<br>Abstraction Etc.) | Emissions (Disposal<br>to Land, Water or<br>Air) | Excavation<br>Requirements          | Transportation<br>Requirements      | Duration of<br>Construction,<br>Operation,<br>Decommissioning |
|---|-------------------------------------|-------------------------------------|--|--|-------------------------------------|-------------------------------------|---|
| South Dublin Bay SAC                            | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                              | No impact on<br>qualifying interest              | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                           |
| North Dublin Bay SAC                            | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                              | No impact on<br>qualifying interest              | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                           |
| Baldoyle Bay SAC                                | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                              | No impact on<br>qualifying interest              | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                           |
| Howth Head SAC                                  | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                              | No impact on<br>qualifying interest              | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                           |
| Ireland's Eye SAC                               | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                              | No impact on<br>qualifying interest              | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                           |
| Rockabill to Dalkey<br>Island SAC               | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                              | No impact on<br>qualifying interest              | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                           |
| Malahide Estuary SAC                            | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                              | No impact on<br>qualifying interest              | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                           |
| North Bull Island SPA                           | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                              | No impact on<br>qualifying interest              | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                           |
| South Dublin Bay and<br>River Tolka Estuary SPA | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                              | No impact on<br>qualifying interest              | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                           |
| Howth Head Coast SPA                            | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                              | No impact on<br>qualifying interest              | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                           |
| Ireland's Eye SPA                               | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                              | No impact on<br>qualifying interest              | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                           |
| Dalkey Island SPA                               | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                              | No impact on<br>qualifying interest              | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                           |
| Malahide Estuary SPA                            | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                              | No impact on<br>qualifying interest              | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                           |
| Baldoyle Bay SPA                                | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                              | No impact on<br>qualifying interest              | No impact on<br>qualifying interest | No impact on<br>qualifying interest | No impact on<br>qualifying interest                           |

**Table 3.0: Potential Significant Impacts on Natura 2000 sites from the Proposed Works at Ringsend WwTP**

| Site Name             | Direct Impacts                   | Indirect/<br>Secondary           | Resource<br>Requirements<br>(Drinking Water<br>Abstraction Etc.) | Emissions (Disposal<br>to Land, Water or<br>Air) | Excavation<br>Requirements       | Transportation<br>Requirements   | Duration of<br>Construction,<br>Operation,<br>Decommissioning |
|-----------------------|----------------------------------|----------------------------------|--|--|----------------------------------|----------------------------------|---|
| Wicklow Mountains SPA | No impact on qualifying interest | No impact on qualifying interest | No impact on qualifying interest                                 | No impact on qualifying interest                 | No impact on qualifying interest | No impact on qualifying interest | No impact on qualifying interest                              |
| Wicklow Mountains SAC | No impact on qualifying interest | No impact on qualifying interest | No impact on qualifying interest                                 | No impact on qualifying interest                 | No impact on qualifying interest | No impact on qualifying interest | No impact on qualifying interest                              |
| Glenasmole Valley SAC | No impact on qualifying interest | No impact on qualifying interest | No impact on qualifying interest                                 | No impact on qualifying interest                 | No impact on qualifying interest | No impact on qualifying interest | No impact on qualifying interest                              |
| Knocksink Woods SAC   | No impact on qualifying interest | No impact on qualifying interest | No impact on qualifying interest                                 | No impact on qualifying interest                 | No impact on qualifying interest | No impact on qualifying interest | No impact on qualifying interest                              |
| Ballyman Glen SAC     | No impact on qualifying interest | No impact on qualifying interest | No impact on qualifying interest                                 | No impact on qualifying interest                 | No impact on qualifying interest | No impact on qualifying interest | No impact on qualifying interest                              |

#### 4.4 LIKELY CHANGES TO THE NATURA 2000 SITES

The likely changes that will arise from the proposed alteration works have been examined in the context of a number of factors that could potentially affect the integrity of the identified Natura 2000 sites (see Table 4.0).

**Table 4.0: Potential Significant Impacts on Natura 2000 sites from the Proposed Works at Ringsend WwTP**

| Site Name                                    | Reduction of Habitat Area | Disturbance to Key Species | Habitat or Species Fragmentation | Reduction in Species Density | Changes in Key Indicators of Conservation Value (Water Quality etc.) | Climate Change |
|--|---------------------------|----------------------------|----------------------------------|------------------------------|--|----------------|
| South Dublin Bay SAC                         | None                      | None                       | None                             | None                         | None   | None           |
| North Dublin Bay SAC                         | None                      | None                       | None                             | None                         | None   | None           |
| Baldoyle Bay SAC                             | None                      | None                       | None                             | None                         | None   | None           |
| Howth Head SAC                               | None                      | None                       | None                             | None                         | None   | None           |
| Ireland's Eye SAC                            | None                      | None                       | None                             | None                         | None   | None           |
| Rockabill to Dalkey Island SAC               | None                      | None                       | None                             | None                         | None   | None           |
| Malahide Estuary SAC                         | None                      | None                       | None                             | None                         | None   | None           |
| North Bull Island SPA                        | None                      | None                       | None                             | None                         | None   | None           |
| South Dublin Bay and River Tolka Estuary SPA | None                      | None                       | None                             | None                         | None   | None           |
| Howth Head Coast SPA                         | None                      | None                       | None                             | None                         | None   | None           |
| Ireland's Eye SPA                            | None                      | None                       | None                             | None                         | None   | None           |
| Dalkey Island SPA                            | None                      | None                       | None                             | None                         | None   | None           |
| Malahide Estuary SPA                         | None                      | None                       | None                             | None                         | None   | None           |
| Baldoyle Bay SPA                             | None                      | None                       | None                             | None                         | None   | None           |
| Wicklow Mountains SPA                        | None                      | None                       | None                             | None                         | None   | None           |
| Wicklow Mountains SAC                        | None                      | None                       | None                             | None                         | None   | None           |
| Glenasmole Valley SAC                        | None                      | None                       | None                             | None                         | None   | None           |
| Knocksink Woods SAC                          | None                      | None                       | None                             | None                         | None   | None           |
| Ballyman Glen SAC                            | None                      | None                       | None                             | None                         | None   | None           |

#### 4.5 ELEMENTS OF THE PROJECT WHERE THE IMPACTS ARE LIKELY TO BE SIGNIFICANT

It can be excluded that any elements of the proposed alteration works will have significant effects on NATURA 2000 Sites.

## 5 Screening Conclusions

The effects on European Sites of the Proposed Alterations to the terms of the SID Application at Ringsend Waste Water Treatment Plant have been examined in the context of a number of factors that could potentially affect the integrity of the Natura 2000 network (Table 4.0). A finding of No Significant Effects Matrix has been completed and is presented in the next section of this Screening Statement.

On the basis of the findings of this Screening for Appropriate Assessment, it can be excluded, on the basis of objective information, that project, individually or in combination with other plans or projects, will have a significant effect on a European site Accordingly, a Stage 2 Appropriate Assessment is not required.

### 5.1 FINDING OF NO SIGNIFICANT EFFECTS REPORT MATRIX

| Name of Project or Plan               | Ringsend WWTP Proposed Alterations to the terms of the SID Application at Ringsend Waste Water Treatment Plant  |
|---------------------------------------|---|
| Name and location of Natura 2000 site | South Dublin Bay SAC<br>North Dublin Bay SAC<br>Baldoyle Bay SAC<br>Howth Head SAC<br>Ireland's Eye SAC<br>Rockabill to Dalkey Island SAC<br>Malahide Estuary SAC<br>North Bull Island SPA<br>South Dublin Bay and River Tolka Estuary SPA<br>Howth Head Coast SPA<br>Ireland's Eye SPA<br>Dalkey Island SPA<br>Malahide Estuary SPA<br>Baldoyle Bay SPA<br>Wicklow Mountains SPA<br>Wicklow Mountains SAC<br>Glenasmole Valley SAC<br>Knocksink Woods SAC<br>Ballyman Glen SAC   |
| Description of the project or plan    | <p>IW (as the body undertaking the SID Development) now wishes to make alterations to the foregoing approval and is making a request to ABP under Section 146B of the Planning &amp; Development Act, 2000 in respect of same. Three of the approved temporary construction site compounds (termed 'Marshalling Areas' in SID Ref. PL29N.YA0010) designated to accommodate the construction of the Ringsend WwTP are no longer available. This has occurred due to operational circumstances changing from the date the application was lodged in 2012 to the present. This application seeks to replace those compound areas no longer available with three new additional areas. These areas will be used as temporary construction site compounds associated with the construction of the approved Ringsend WwTP upgrade.</p> <p>Given the strategic significance of the planned upgrade to Ringsend, Irish Water has taken steps to ensure that there is sufficient flexibility in the available temporary compounds so that the required upgrade works can take place. In doing so, Irish Water is conscious that the Contractor appointed to undertake the upgrade will determine how best to use the available compound space so as to complete the project as efficiently as possible and that not all of the compounds are expected to be available throughout the</p> |

| Name of Project or Plan  | Ringsend WWTP Proposed Alterations to the terms of the SID Application at Ringsend Waste Water Treatment Plant   |
|--|--|
|  | <p>entire period of the construction stage.</p> <p>Having regard to all of the above the alteration being requested comprises the following elements;</p> <ul style="list-style-type: none"> <li>• Omission of three approved construction site compounds, indicated on Drawing PL/001, granted by An Bord Pleanala under ABP Ref: 29N.YA0010 to facilitate construction of the proposed Ringsend WwTP upgrade development, and</li> <li>• Provision of three new temporary construction site compounds at alternative locations as replacement facilities, labelled C1, C2 and C3 on Drawing PL/001. Full details of the proposed alterations are set out in the enclosed Project Report.</li> </ul> <p>These alterations, if approved, will significantly improve access to the existing site, increase construction works flexibility, and facilitate the management of safety, health and welfare at work on the project. In particular, the proposed alterations will provide for:</p> <ul style="list-style-type: none"> <li>• the separation of construction works traffic from employee traffic at Compound C1 with the use of a pedestrian access route to the north-eastern corner;</li> <li>• the better delineation and separation of different works compounds to facilitate the works;</li> <li>• the increased segregation of HGV traffic from vehicular and pedestrian construction staff traffic accessing the WwTP site; and</li> <li>• a reduction in the volume of HGV traffic required to pass along Pigeon House Road.</li> </ul> <p><u>Description of the Surrounding Environment</u></p> <p>The alterations being requested apply to sites contiguous to the current WwTP site. The artificial surfaces and outbuildings within the proposed compounds are of no significant ecological value, but are located adjacent to and in the vicinity of South Dublin Bay and River Tolka Estuary Special Protection Area, the North Bull Island Special Protection Area, the Howth Head Coast Special Protection Area, the South Dublin Bay Special Area of Conservation, the North Dublin Bay Special Area of Conservation and the Howth Head Special Area of Conservation and other nearby European sites.</p> |
| Is the project or plan directly connected with or necessary to the management of the site?                     | No.  |
| Are there other projects or plans that together with the project or plan being assessed could affect the site? | No.  |
| The Assessment of Significance of Effects  |  |
| Describe how the project or plan (alone or in combination) is likely to affect the European                    | The purpose of this section of the screening is to examine the possibility that the proposed alteration works, either individually or in combination with other plans and projects, may result in significant negative effects on the Conservation Objectives and the integrity of the Natura 2000 Sites identified.   |

**Ringsend Waste Water Treatment Works -S146B Application (Revised Compound Areas): Appropriate Assessment Screening Report**

| Name of Project or Plan   | Ringsend WWTP Proposed Alterations to the terms of the SID Application at Ringsend Waste Water Treatment Plant   |
|---|--|
| Site(s).  |  |
| Explain why these effects are not considered significant.                         | <p>None of the Natura 2000 sites lie within the boundaries of the proposed works area; therefore, no direct impacts will occur through landtake or fragmentation of habitats.</p> <p>The proposed alteration works will incorporate the necessary avoidance measures as identified in the EIS and NIS, and the Boards Conditions in the Grant of Permission [ABP Ref: 29N.YA0010], in particular Conditions 5 and 11, to ensure the avoidance of any polluting substances from entering the adjacent Natura 2000 sites, i.e. South Dublin Bay and River Tolka Estuary SPA and South Dublin Bay SAC. Therefore, it is not anticipated that the proposed alteration works will impact on the adjacent South Dublin Bay and River Tolka Estuary SPA and South Dublin Bay SAC, or any of the Natura 2000 sites identified.</p> <p>It is not anticipated that the proposed alteration works will result in any impacts on the SPAs (North Bull Island SPA, South Dublin Bay and River Tolka Estuary SPA, Howth Head Coast SPA, Ireland's Eye SPA, Dalkey Island SPA, Malahide Estuary SPA, Wicklow Mountains SPA and Baldoyle Bay SPA) and SACs (South Dublin Bay SAC, North Dublin Bay SAC, Baldoyle Bay SAC, Howth Head SAC, Ireland's Eye SAC, Rockabill to Dalkey Island SAC, Malahide Estuary SAC, Wicklow Mountains SAC, Glenasmole Valley SAC, Knocksink Woods SAC, Ballyman Glen SAC) within the 15km boundary.</p> |
| List of agencies consulted: provide contact name and telephone or e-mail address. | Consultation is not required with the NPWS when a proposed project has been screened out.  |
| Response to consultation.   | N/A  |
| Data Collected to Carry Out the Assessment  |  |
| Who carried out the assessment?   | Richard Nairn  |
| Sources of data   | NPWS database; EPA database; WFD Ireland database; and Information from Irish Water.   |
| Level of assessment completed   | Desktop and Field walkover survey  |
| Where can the full results of the assessment be accessed and viewed?              | Irish Water<br>Colvill House,<br>24- 1, 26 Talbot St,<br>Dublin  |
| Overall Conclusion  | Stage 1 Screening indicates that the Proposed Alterations to the terms of the SID Application at Ringsend Waste Water Treatment Plant will not have a significant negative impact on the Natura 2000 network. Therefore, a Stage 2 'Appropriate Assessment' under Article 6(3) of the Habitats Directive 92/43/EEC is not required.  |

## Appendix 4: Correspondence from Archaeologist





J. B. Barry and Partners Limited,  
Consulting Engineers  
Classon House, Dundrum Business Park,  
Dundrum, Dublin 14,  
Ireland

10 July 2017

**RE: Ridd Wood for Transfer of Works to PLCCYA  
North of Carrickrond C Carrickrond C and Carrick  
Harbour**

Compound C1 is an area of made ground that has been created through the reclamation of Dublin Bay. The development of a construction compound in this area will have no impact on cultural heritage.

Compound C2 is situated on the external side of the north wall of the Pigeon House Fort within the area of the old Pigeon House Harbour with a new access to the compound which traverses over the area of the Pigeon House Fort. The upstanding walls at south form part of the Pigeon House Fort which is a Protected Structure and should not be impacted. The walls should be protected with concrete traffic barriers during construction to prevent any impacts. The ground beneath C2, outside the area of the Pigeon House Fort, was originally part of the Pigeon House harbour and between 1847 and 1906 the outfall works of the Municipal Sewage Scheme was constructed here by filling in the harbour with made ground. Therefore shallow subsurface works to the north of the wall of the Pigeon House Fort should have no impact on cultural heritage (but see Condition 14 (d) below). The access works within the interior of the Pigeon House Fort will require topsoil stripping for the access road and have the potential to uncover material associated with the fort and should be monitored by a suitably qualified archaeologist.

Compound C3 is situated on a paved area immediately east of the old Pigeon House Power Station which is also a Protected Structure. The structure of the power station should not be impacted and as with the Pigeon House Fort the walls should be protected with concrete traffic barriers during construction to prevent any impacts.

Condition 14 (d) of the consent for the above development granted on the 16th of November 2012 by An Bord Pleanála requires that the developer:

- (d) Employ a suitably qualified archaeologist who shall monitor all site investigations and other excavation works.

Where works are taking place in made ground in areas C1 and C2 and do not penetrate to a depth greater than 5m no archaeological monitoring will be required.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'C. Mount', with a long horizontal flourish extending to the right.

□□□□□□□□□□□□□□□□□□□□

Dr. Charles Mount