



Cork County Council

Wastewater Discharge Licence Application under S.I. 684 of 2007  
Regulations

Scheme / Agglomeration Name : Cobh

Submission Date : 14<sup>th</sup> December 2007

Environmental Protection Agency  
 Licensing  
 Received  
 14 DEC 2007  
 Location - Cobh  
 Initials \_\_\_\_\_

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## **SECTION A**

### **NON TECHNICAL SUMMARY**

**Cobh Discharge licence application**

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## SECTION A: NON-TECHNICAL SUMMARY

*Advice on completing this section is provided in the accompanying Guidance Note.*

A non-technical summary of the application is to be included here. The summary should identify all environmental impacts of significance associated with the discharge of waste water associated with the waste water works. This description should also indicate the hours during which the waste water works is supervised or manned and days per week of this supervision.

The following information must be included in the non-technical summary:

A description of:

- the waste water works and the activities carried out therein,
- the sources of emissions from the waste water works,
- the nature and quantities of foreseeable emissions from the waste water works into the receiving aqueous environment as well as identification of significant effects of the emissions on the environment,
- the proposed technology and other techniques for preventing or, where this is not possible, reducing emissions from the waste water works,
- further measures planned to comply with the general principle of the basic obligations of the operator, i.e., that no significant pollution is caused;
- measures planned to monitor emissions into the environment.

Supporting information should form **Attachment N° A.1**

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## **1.1 Description of the Wastewater System in Cobh Agglomeration.**

### **1.1.1:**

Cobh is located in Great Island and at the edge of Cork Harbour. It is approximately 24 km by road east of Cork City. It stretches from Rushbrooke in the west to Cuskinny Bay to the east and is situated on a hill which rises sharply from the sea shore.

According to the 2006 Census of Population the population of Cobh within the Cobh Urban Electoral Division is 6541. The population of the Environs of Cobh within the Cobh Rural Electoral Division is 4762. This gives a total population of 11,303.

The exact population contributing to the sewage system in Cobh is not clear taking into account the Rural Electoral boundaries and the increase in population which may have occurred since the 2006 census. The population may be in the region of 12,000.

### **1.1.2:**

The sewerage system within the town is very old comprising of old stone culverts, sewers, manholes, local pumping stations, outfalls, emergency and stormoverflow outfalls from the local pump stations. The system is a combined system i.e. foul and surface water combined. The newer housing estates have been constructed with separate foul and surface water systems but a number of these separate systems connect into the combined sewer system.

There is no Wastewater Treatment Plant in Cobh.

A number of houses in Rushbrook and Ringacoltig Townland and Ringmeen Townland area have private or communal septic tanks or individual outfalls to Cork Harbour.

Generally the sewage from Cobh Town discharges untreated into Cork Harbour at a number of outfall locations. In western Cobh the sewage passes through a comminutor station at Ringmeen Townland (Whitepoint) before discharging to an outfall in Ringmeen Townland (White Point).

The collection system drains to 11 No. outfall points serving different catchment areas within the town. There are also 4 No. emergency / stormoverflow outfall points associated with the local pumping stations.

Flow from East Cobh is directed to two outfalls located in Carrignafoy Townland at Pilot's Pier and Fr. Corbett Terrace. Pilot's Pier Outfall is located opposite The Mall near the slipway and breakwater. Corbett Outfall is sited opposite Fr. Corbett Terrace at the junction between Harbour Terrace and Connolly Street.

The houses on Connolly Street discharge via two outfalls to the harbour in Carrignafoy Townland.

There are two small local pumping stations east of Lynch's Quay serving apartments on the waterfront which convey flows to King's Quay Outfall (Kilgarvan Townland). The emergency overflows / stormoverflows from each pumping station discharges to the harbour adjacent to each pumping station.

Central Cobh is served by two outfalls at King's Quay and West Beach (Kilgarvan Townland). The King's Quay outfall is located under the jetty at King's Quay. Also the flow from the secondary school in upper East Cobh is directed to King's Quay Outfall in the town centre.

The West Beach Outfall is located at the Pier opposite Pearse Square (Kilgarvan Townland)

There is also a smaller outfall serving the railway station and Heritage Centre which discharges at the promenade (Ballyvoloon Townland). A small local pumping station conveys flows from the low-lying development to this outfall. The emergency overflow / stormoverflow from this pump station discharges to the harbour adjacent to the pump station (Ringmeen Townland).

The majority of flows from West Cobh are directed to an outfall at Ringmeen Townland (Whitepoint). The White Point outfall is located near the slipway in southern White Point and is the largest outfall serving western Cobh. The flow passes through a comminutor station at Whitepoint.

There are also other outfalls discharging to the shoreline in Ringmeen Townland.

A small local pumping station pumps sewage from the houses in the Lower Whitepoint Area to the comminutor station. There is an emergency overflow / stormoverflow from this pump station which outfalls in Ringmeen Townland.

There are 2 No. small pumping stations not in the charge of Cork County Council in the recently developed Ballynoe area which each lifts effluent to gravity sewers which ultimately discharge at Ringmeen Townland (White Point) Outfall. These pumpstations does not have an emergency outfall to Cork Harbour.

There is a new sewage pumpstation not in the charge of Cork County Council associated with a new housing estate under construction north of the cemetery at Velvethouse Cross Roads Carrignafoy Townland. This pump station does not have an emergency overflow or a storm overflow. None of the new houses at this location are occupied to date.

There is a new sewage pumpstation not in the charge of Cork County Council associated with a new housing estate at Newtown, Ringmeen Townland. This pump station does not have an emergency overflow or a storm overflow.

There is a new sewage pumpstation not in the charge of Cork County Council associated with a new housing estate Whitepoint Avenue in Ringmeen Townland. This pump station does not have an emergency overflow or a storm overflow.

The sewage from the SuperValu supermarket which is within both Dean and Chapterland of Cloyne Townland and Ticknock Townland is pumped southwards to connect to the Cobh sewage system.

### **1.1.3:**

The agglomeration area for the Cobh sewers is shown on Drawing No. A1-1 and forms Attachment A1.

The collection system drains to 11 No. outfall points serving different catchment areas within the town. There are also 4 No. emergency / stormoverflow outfalls from the local sewage pumping stations.

A description of the outfalls is given below.

### **1.1.3.1 Primary Discharge Point:**

The Primary Discharge Point is at Ringmeen Townland (Whitepoint). The sewer at this location passes through a Comminutor Station at Whitepoint.

This consists of 2 No. comminutors. There have been ongoing maintenance problems in relation to the comminutors. Consequently the comminutors have now been removed pending replacement.

The diameter of the outflow pipe is 750 mm.

### **1.1.3.2 Secondary Discharge Points:**

The other discharge points are 10 No. Secondary Discharge Points and 4 No. Secondary Emergency / Stormoverflow Discharge Points and the location of these are as follows:

#### **Ringacoltig Townland (Dock Cottages):**

This is a 150 mm diameter outfall.

#### **Ringmeen Townland (West of Whitepoint Apartments)**

This is a 300 mm diameter outfall.

#### **Ringmeen Townland (East of Whitepoint Apartments)**

This is a 300 mm diameter outfall.

#### **Ballyvoloon Townland (Kennedy Park)**

This is a 300 mm diameter outfall.

#### **Kilgarvan Townland (Jetty West Beach)**

This is a 600 mm diameter outfall.

#### **Kilgarvan Townland (Jetty King's Quay)**

This is a 375 mm diameter outfall.

#### **Carrignafoy Townland (Fr. Corbett Tce)**

This is a 225 mm diameter outfall.

#### **Carrignafoy Townland (Connolly St. East of Corbett Tce. outfall)**

This is estimated at a 225 mm diameter outfall.

#### **Carrignafoy Townland (Connolly St. West of Pilots Pier)**

This is estimated at a 225 mm diameter outfall.

#### **Carrignafoy Townland (The Mall East of Pilots Pier)**

This is a 300mm diameter outfall.

### **1.1.3.3 Secondary Emergency / Stormoverflow Discharge Points:**

There are 4 No.local pumphouses on the public sewers and these have emergency / stormoverflow outfalls. The sizes and locations of these outfalls are not defined.

These are as follows:

Ringmeen Townland (Whitepoint Pumhouse)

Ringmeen Townland (Pumphouse adjacent to Railway Stn. / Heritage Centre)

Kilgarvan Townland (Lynch's Quay Pumhouse)

Kilgarvan Townland (Sirius Wharf Pumhouse)

### **1.1.1.4 Volumes:**

There are no figures available for the volumes discharging from each outfall.

## **1.2 Sources of emissions:**

Emissions from the Cobh agglomeration arise from the following sources:

Domestic Loading: Existing Population

Non Domestic Loading:      Commercial  
   Industrial (None)  
   Institutional

Infiltration

### **1.2.1: Domestic Loading / Emissions**

As stated in Section 1.1.1 the population contributing to the Cobh sewage system may be in the region of 12,000.

### **1.2.2: Non Domestic Loading / Emissions**

#### **1.2.2.1 Commercial:**

Commercial loading arises from the various non domestic premises within Cobh.

The Commodore Hotel and the Waters Edge Hotel in the centre of Cobh contribute significant commercial loading to the Cobh sewers.

The Rushbrooke Hotel on the west of Cobh is not connected to the Cobh sewers.

#### **1.2.2.2 Industrial:**

There are no industrial discharges to the Cobh sewers.

The Rushbrooke Commercial Park does not discharge to the Cobh sewers.

#### **1.2.2.3 Institutional:**



The existing institutions within the Cobh area discharging to the Cobh sewers include 7 No. schools and the General Hospital.

**1.2.2.4: Infiltration:**

There is a significant volume of infiltration into the Cobh sewer network.

**1.3: The Nature and Quantities of Foreseeable emissions**

A significant upgrading of the Cobh sewer network is proposed with the wastewater being pumped across the harbour to the proposed Lower Harbour Waste Water Treatment Plant at Carrigaline East.

**1.4: Environmental Impacts**

There are no observed long term impacts to Cork Harbour arising from the discharge of raw sewage from Cobh.

However Cork County Council is committed to providing an upgraded sewer network in Cobh with the wastewater being pumped across the harbour to the proposed Lower Harbour Waste Water Treatment Plant at Carrigaline East in order to meet its statutory requirements.

**1.5: Proposed Technology and Other Techniques for preventing or Where This Is Not Possible Reducing Emissions From The Waste Water Works.**

**1.5.1**

In order to improve the existing situation concerning the discharges of raw sewage from Cobh into Cork Harbour Cork County Council appointed E. G. Pettit and Company (now Mott Macdonald Pettit) to prepare a Preliminary Report for the Lower Cork Harbour which would make recommendations concerning the collection and treatment of wastewater from the population centres of Cobh, Passage West, Monkstown, Carrigaline and Ringaskiddy.

A significant upgrading of the Cobh sewer network is proposed with the wastewater being pumped across the harbour to the proposed Lower Harbour Waste Water Treatment Plant at Carrigaline East.

**1.6: Further measures planned to comply with the general principle of the basic obligations of the operator i.e. that no significant pollution is caused.**

As an advance contract a new sewage scheme including treatment is being installed in the previously unsewered North Cobh.

# ATTACHMENT NO. A1

## SUPPORTING INFORMATION

### Drawing No. A1-1 Cobh Agglomeration Map.

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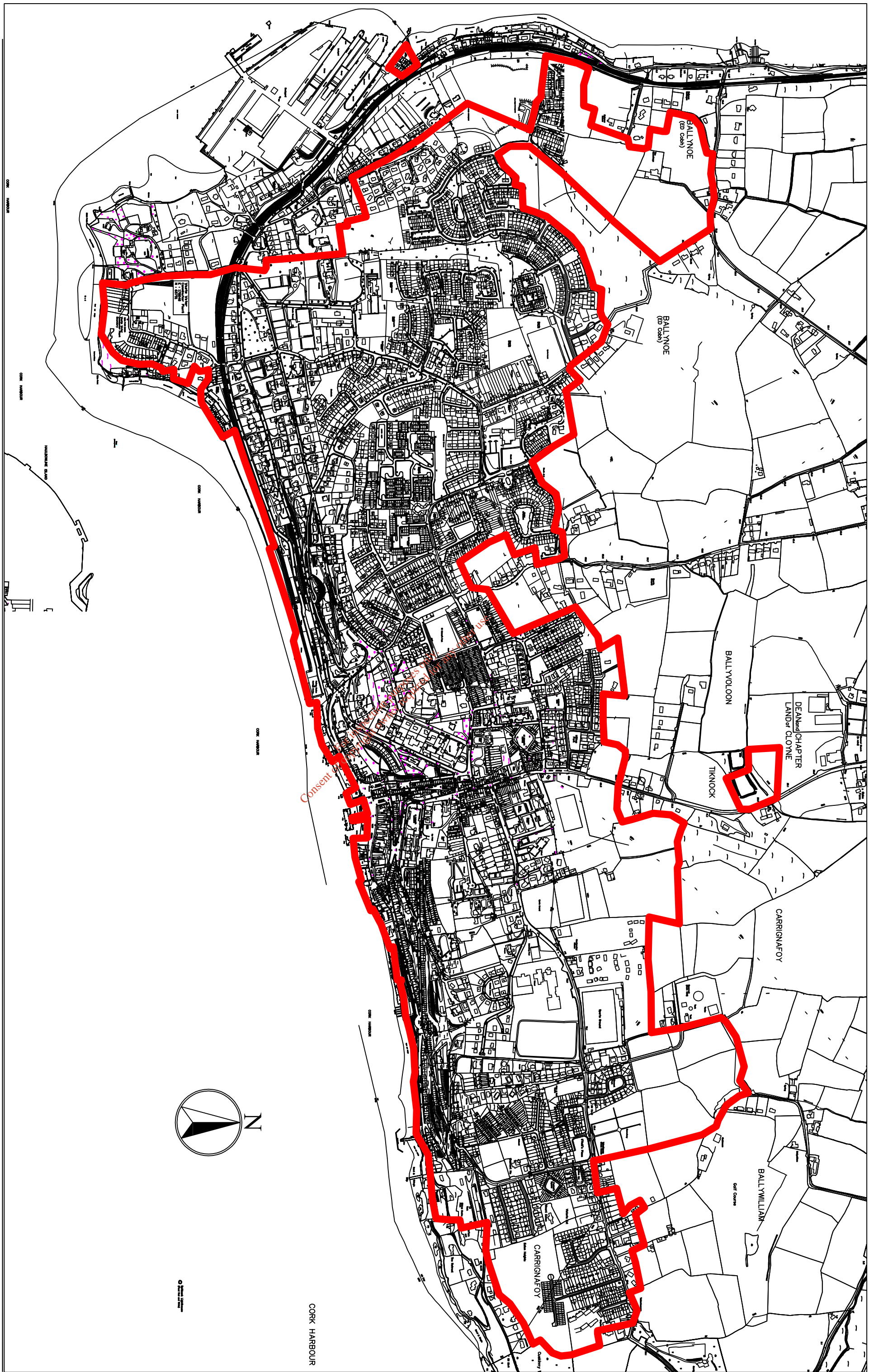
**CORK COUNTY COUNCIL**  
 South Cork Division  
 County Hall,  
 Carrigrohane Rd.,  
 CORK.

Tel. 021-4270691  
 Fax 021-4270321

Rev	By	Date	Description

N.O'Keefe, B.Eng., C.Eng., Furling, F.I.E.I., M.I.C.E., Acting County Engineer County Hall, Cork
P. Power Director of Services South Cork.

Project: EPA LICENCE APPLICATION	Cobh WW
Title: Section: AI-AGGLOMERATION MAP.	
Location: COBH, Co. CORK	
Surveyed: D. O'K	
Drawn: T. McM	
Approved: D. O'K.	
Original Scale: 1:10000	
Signed: [Signature]	
Date: Dec. 2007	
Drawing No: 1-1	



## **SECTION B**

### **GENERAL**

#### **Cobh Discharge licence application**

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## SECTION B: GENERAL

Advice on completing this section is provided in the accompanying Guidance Note.

### B.1 Applicant's Details\*

#### Name and Address for Correspondence

Only application documentation submitted by the applicant and by the nominated person will be deemed to have come from the applicant.

Provide a drawing detailing the agglomeration to which the licence application relates. It should have the boundary of the agglomeration to which the licence application relates clearly marked in red ink.

<b>Name**:</b>	Cork County Council South
<b>Address:</b>	Floor 5
	County Hall
	Carrigrohane Road
	Co. Cork
<b>Tel:</b>	(021) 4276891
<b>Fax:</b>	(021) 4276321
<b>e-mail:</b>	

\*This should be the name of the water services authority in whose ownership or control the waste water works is vested.

\*\*Where an application is being submitted on behalf of more than one water services authority the details provided in Section B.1 shall be that of the lead water services authority.

<b>Name*:</b>	Ms. Patricia Power
<b>Address:</b>	Floor 5
	County Hall
	Carrigrohane Road
	Co. Cork
<b>Tel:</b>	(021) 4276891
<b>Fax:</b>	
<b>e-mail:</b>	<a href="mailto:patricia.power@corkcoco.ie">patricia.power@corkcoco.ie</a>

\*This should be the name of person nominated by the water services authority for the purposes of the application.

### Co-Applicant's Details

<b>Name*:</b>	Not Applicable
<b>Address:</b>	
<b>Tel:</b>	
<b>Fax:</b>	
<b>e-mail:</b>	

\*This should be the name of a water services authority, other than the lead authority, where multiple authorities are the subject of a waste water discharge (authorisation) licence application.

### Design, Build & Operate Contractor Details

<b>Name*:</b>	Not Applicable
<b>Address:</b>	
<b>Tel:</b>	
<b>Fax:</b>	
<b>e-mail:</b>	

\*Where a design, build & operate contract is in place for the waste water works, or any part thereof, the details of the contractor should be provided.

**Attachment B.1** should contain appropriately scaled drawings / maps ( $\leq A3$ ) of the agglomeration served by the waste water works showing the boundary clearly marked in red ink. These drawings / maps should also be provided as geo-referenced digital drawing files (e.g., ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. These drawings should be provided to the Agency on a separate CD-Rom containing sections B.2, B.3, B.4, B.5, C.1, D.2, E.3 and F.2.

Attachment included	Yes	No
	X	

### B.2 Location of Associated Waste Water Treatment Plant(s)

Give the location of the waste water treatment plant associated with the waste water works, if such a plant or plants exists.

<b>Name*:</b>	No Wastewater Treatment Plant in Cobh; Comminutor Station prior to Primary Discharge Point.
<b>Address:</b>	Ringmeen Townland (Whitepoint) Cobh
<b>Grid ref (6E, 6N)</b>	E 178248; N65751
<b>Level of Treatment</b>	2 No. Comminutors (removed pending replacement)
<b>Primary Telephone:</b>	
<b>Fax:</b>	
<b>e-mail:</b>	

\*This should be the name of the person responsible for the supervision of the waste water treatment plant.

**Attachment B.2** should contain appropriately scaled drawings / maps ( $\leq A3$ ) of the site boundary and overall site plan, including labelled discharge, monitoring and sampling points. These drawings / maps should also be provided as geo-referenced digital drawing files (e.g., ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. These drawings should be provided to the Agency on a separate CD-Rom containing sections B.1, B.3, B.4, B.5, C.1, D.2, E.3 and F.2.

Attachment included	Yes	No
	X	

### B.3 Location of Primary Discharge Point

Give the location of the primary discharge point, as defined in the Waste Water Discharge (Authorisation) Regulation, associated with the waste water works.

<b>Type of Discharge</b>	Direct Discharge
<b>Unique Point Code</b>	SW01COBH
<b>Location</b>	Ringmeen Townland (Whitepoint) Cobh
<b>Grid ref (6E, 6N)</b>	E 178243; N 65558

**Attachment B.3** should contain appropriately scaled drawings / maps ( $\leq A3$ ) of the discharge point, including labelled monitoring and sampling points associated with the discharge point. These drawings / maps should also be provided as geo-referenced digital drawing files (e.g. ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. This data should be provided to the Agency on a separate CD-Rom containing the drawings and tabular data requested in sections B.1, B.2, B.4, B.5, C.1, D.2, E.3 and F.2.

<b>Attachment included</b>	<b>Yes</b>	<b>No</b>
	<b>x</b>	

### B.4 Location of Secondary Discharge Point(s)

Give the location of **all** secondary discharge point(s) associated with the waste water works. Please refer to Guidance Note for information on Secondary discharge points.

<b>Type of Discharge</b>	Direct Discharge
<b>Unique Point Code</b>	SW02COBH
<b>Location</b>	Ringacoltig Townland Cobh
<b>Grid ref (6E, 6N)</b>	E 177547; N 66546

<b>Type of Discharge</b>	Direct Discharge
<b>Unique Point Code</b>	SW03COBH
<b>Location</b>	Ringmeen Townland Cobh
<b>Grid ref (6E, 6N)</b>	E 178593; N 65910

<b>Type of Discharge</b>	Direct Discharge
<b>Unique Point Code</b>	SW04COBH
<b>Location</b>	Ringmeen Townland Cobh
<b>Grid ref (6E, 6N)</b>	E 178699; N 66007

<b>Type of Discharge</b>	Direct Discharge
<b>Unique Point Code</b>	SW05COBH
<b>Location</b>	Ballyvoloon Townland Cobh
<b>Grid ref (6E, 6N)</b>	E 179676; N 66313

<b>Type of Discharge</b>	Direct Discharge
<b>Unique Point Code</b>	SW06COBH
<b>Location</b>	Kilgarvan Townland Cobh
<b>Grid ref (6E, 6N)</b>	E 179807; N 66372

<b>Type of Discharge</b>	Direct Discharge
<b>Unique Point Code</b>	SW07COBH
<b>Location</b>	Kilgarvan Townland Cobh
<b>Grid ref (6E, 6N)</b>	E 180015; N 66415

<b>Type of Discharge</b>	Direct Discharge
<b>Unique Point Code</b>	SW08COBH
<b>Location</b>	Carrignafof Townland Cobh
<b>Grid ref (6E, 6N)</b>	E 180439; N 66515

<b>Type of Discharge</b>	Direct Discharge
<b>Unique Point Code</b>	SW09COBH
<b>Location</b>	Carrignafof Townland Cobh
<b>Grid ref (6E, 6N)</b>	E 180518; N 66526

<b>Type of Discharge</b>	Direct Discharge
<b>Unique Point Code</b>	SW10COBH
<b>Location</b>	Carrignafof Townland
<b>Grid ref (6E, 6N)</b>	E 180602; N 66520



<b>Type of Discharge</b>	Direct Discharge
<b>Unique Point Code</b>	SW11COBH
<b>Location</b>	Carrignafoy Townland Cobh
<b>Grid ref (6E, 6N)</b>	E 180795; N 66547

<b>Type of Discharge</b>	Emergency overflow from local pumping station Direct Discharge
<b>Unique Point Code</b>	SW12COBH
<b>Location</b>	Ringmeen Townland
<b>Grid ref (6E, 6N)</b>	E 178375; N 65605

<b>Type of Discharge</b>	Emergency overflow from local pumping station Direct Discharge
<b>Unique Point Code</b>	SW13COBH
<b>Location</b>	Ringmeen Townland
<b>Grid ref (6E, 6N)</b>	E 179466; N 66275

<b>Type of Discharge</b>	Emergency overflow from local pumping station Direct Discharge
<b>Unique Point Code</b>	SW14COBH
<b>Location</b>	Kilgarvan Townland Cobh
<b>Grid ref (6E, 6N)</b>	E 180068; N 66442

<b>Type of Discharge</b>	Emergency overflow from local pumping station Direct Discharge
<b>Unique Point Code</b>	SW15COBH
<b>Location</b>	Kilgarvan Townland Cobh
<b>Grid ref (6E, 6N)</b>	E 180281; N 66502

**Attachment B.4** should contain appropriately scaled drawings / maps ( $\leq A3$ ) of the discharge point(s), including labelled monitoring and sampling points associated with the discharge point(s). These drawings / maps should also be provided as geo-referenced digital drawing files (e.g. ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. This data should be provided to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.5, C.1, D.2, E.3 and F.2.

<b>Attachment included</b>	<b>Yes</b>	<b>No</b>
	<b>x</b>	

**B.5 Location of Storm Water Overflow Point(s)**

Give the location of **all** storm water overflow point(s) associated with the waste water works.

<b>Type of Discharge</b>	Storm overflow from local pump station. Direct Discharge
<b>Unique Point Code</b>	SW12COBH
<b>Location</b>	Ringmeen Townland
<b>Grid ref (6E, 6N)</b>	E 178375; N 65605

<b>Type of Discharge</b>	Storm overflow from local pump station. Direct Discharge
<b>Unique Point Code</b>	SW13COBH
<b>Location</b>	Ringmeen Townland
<b>Grid ref (6E, 6N)</b>	E 179466; N 66275

<b>Type of Discharge</b>	Storm overflow from local pump station. Direct Discharge
<b>Unique Point Code</b>	SW14COBH
<b>Location</b>	Kilgarvan Townland Cobh
<b>Grid ref (6E, 6N)</b>	E 180068; N 66442

<b>Type of Discharge</b>	Storm overflow from local pump station. Direct Discharge
<b>Unique Point Code</b>	SW15COBH
<b>Location</b>	Kilgarvan Townland Cobh
<b>Grid ref (6E, 6N)</b>	E 180281; N 66502

**Attachment B.5** should contain appropriately scaled drawings / maps ( $\leq A3$ ) of storm water overflow point(s) associated with the waste water works, including labelled monitoring and sampling points associated with the discharge point(s). These drawings / maps should also be provided as geo-referenced digital drawing files (e.g. ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. This data should be provided to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.4, C.1, D.2, E.3 and F.2.

<b>Attachment included</b>	<b>Yes</b>	<b>No</b>
	<b>x</b>	

### B.6 Planning Authority

Give the name of the planning authority, or authorities, in whose functional area the discharge or discharges take place or are proposed to take place.

<b>Name:</b>	Cork County Council
<b>Address:</b>	County Hall
	Cork
<b>Tel:</b>	(021) 4276891
<b>Fax:</b>	(021) 4276321
<b>e-mail:</b>	

Planning Permission relating to the waste water works which is the subject of this application:- (tick as appropriate)

<b>has been obtained</b>		<b>is being processed</b>	
<b>is not yet applied for</b>	<b>x</b>	<b>is not required</b>	

<b>Local Authority Planning File Reference N<sup>o</sup>:</b>	Not Applicable
---	----------------

**Attachment B.6** should contain **the most recent** planning permission, including a copy of **all** conditions, and where an EIS was required, copies of any such EIS and any certification associated with the EIS, should also be enclosed. Where planning permission is not required for the development, provide reasons, relevant correspondence, etc.

<b>Attachment included</b>	<b>Yes</b>	<b>No</b>
	<b>x</b>	

### B.7 Other Authorities

B.7 (i) Shannon Free Airport Development Company (SFADCo.) area

The applicant should tick the appropriate box below to identify whether the discharge or discharges are located within the Shannon Free Airport Development Company (SFADCo.) area.

**Attachment B.7(i)** should contain details of any or all discharges located within the SFADCo. area.

<b>Within the SFADCo Area</b>	<b>Yes</b>	<b>No</b>
		<b>x</b>

B.7 (ii) Health Services Executive Region

The applicant should indicate the **Health Services Executive Region** where the discharge or discharges are or will be located.

<b>Name:</b>	Health Services Executive South
<b>Address:</b>	Aras Slainte Wilton Road Cork
<b>Tel:</b>	(021) 4545011
<b>Fax:</b>	(021) 4927228
<b>e-mail:</b>	Not Available

B.7 (iii) Other Relevant Local Authorities

Regulation 13 of the Waste Water Discharge (Authorisation) Regulations, 2007 requires all applicants, not being the local authority in whose functional area the relevant waste water discharge or discharges, to which the relevant application relates, takes place or is to take place, to notify the relevant local authority of the said application.

<b>Name:</b>	Not Applicable
<b>Address:</b>	
<b>Tel:</b>	
<b>Fax:</b>	
<b>e-mail:</b>	

Relevant Authority Notified	Yes	No

**Attachment B.7(iii)** should contain a copy of the notice issued to the relevant local authority.

Attachment included	Yes	No

**B.8 Notices and Advertisements**

Regulations 10 and 11 of the Waste Water Discharge (Authorisation) Regulations, 2007 require all applicants to advertise the application in a newspaper and by way of a site notice. See *Guidance Note*.

**Attachment B.8** should contain a copy of the site notice and an appropriately scaled drawing ( $\leq A3$ ) showing its location. **The original application must include the original page of the newspaper in which the advertisement was placed.** The relevant page of the newspaper containing the advertisement should be included with the original and two copies of the application.

Attachment included	Yes	No
	x	

### B.9 (i) Population Equivalent of Agglomeration

**TABLE B.9.1 POPULATION EQUIVALENT OF AGGLOMERATION**

The population equivalent (p.e.) of the agglomeration to be, or being, served by the waste water works should be provided and the period in which the population equivalent data was compiled should be indicated.

<b>Population Equivalent</b>	<b>12,000 (est)</b>
<b>Data Compiled (Year)</b>	<b>2007</b>
<b>Method</b>	<b>Est. from CSO data</b>

### B.9 (ii) FEES

State the relevant Class of waste water discharge as per Column 1 of the Second Schedule, and the appropriate fee as per Columns 2 or 3 of the Third Schedule of the Waste Water Discharges (Authorisation) Regulations 2007, S.I. No. 684 of 2007.

<b>Class of waste water discharge</b>	<b>Fee (in €)</b>
≥ 10,000 pe	30,000

<b>Appropriate Fee Included</b>	<b>Yes</b>	<b>No</b>
	<b>x</b>	

### B.10 Capital Investment Programme

State whether a programme of works has been prioritised for the development of infrastructure to appropriately collect, convey, treat and discharge waste water from the relevant agglomeration. If a programme of works has been prioritised provide details on funding, (local or national), allocated to the capital project. Provide details on the extent and type of work to be undertaken and the likely timeframes for this work to be completed.

**Attachment B.10** should contain the most recent development programme, including a copy of any approved funding for the project and a timeframe for the completion of the necessary works to take place.

<b>Attachment included</b>	<b>Yes</b>	<b>No</b>

### B.11 Significant Correspondence

Provide a summary of any correspondence resulting from a Section 63 notice issued by the Agency in relation to the waste water works under the Environmental Protection Agency Acts, 1992 and 2003, as amended by Section 13 of Protection of the Environment Act, 2003.

**Attachment B.11** should contain a summary of any relevant correspondence issued in relation to a Section 63 notice.

<b>Attachment included</b>	<b>Yes</b>	<b>No</b>
		<b>x</b>

**B.12 Foreshore Act Licences.**

Provide a copy of the most recent Foreshore Act licence issued in relation to discharges from the waste water works issued under the Foreshore Act 1933.

**Cork County Council has no record of any Foreshore Licence existing.**

**Attachment B.12** should contain the most recent licence issued under the Foreshore Act 1933, including a copy of **all** conditions attached to the licence and any monitoring returns for the previous 12-month period, if applicable.

<b>Attachment included</b>	<b>Yes</b>	<b>No X</b>
----------------------------	------------	-----------------

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## **ATTACHMENT NO. B1**

### **Drawing No. B1-1 Cobh Agglomeration Map.**

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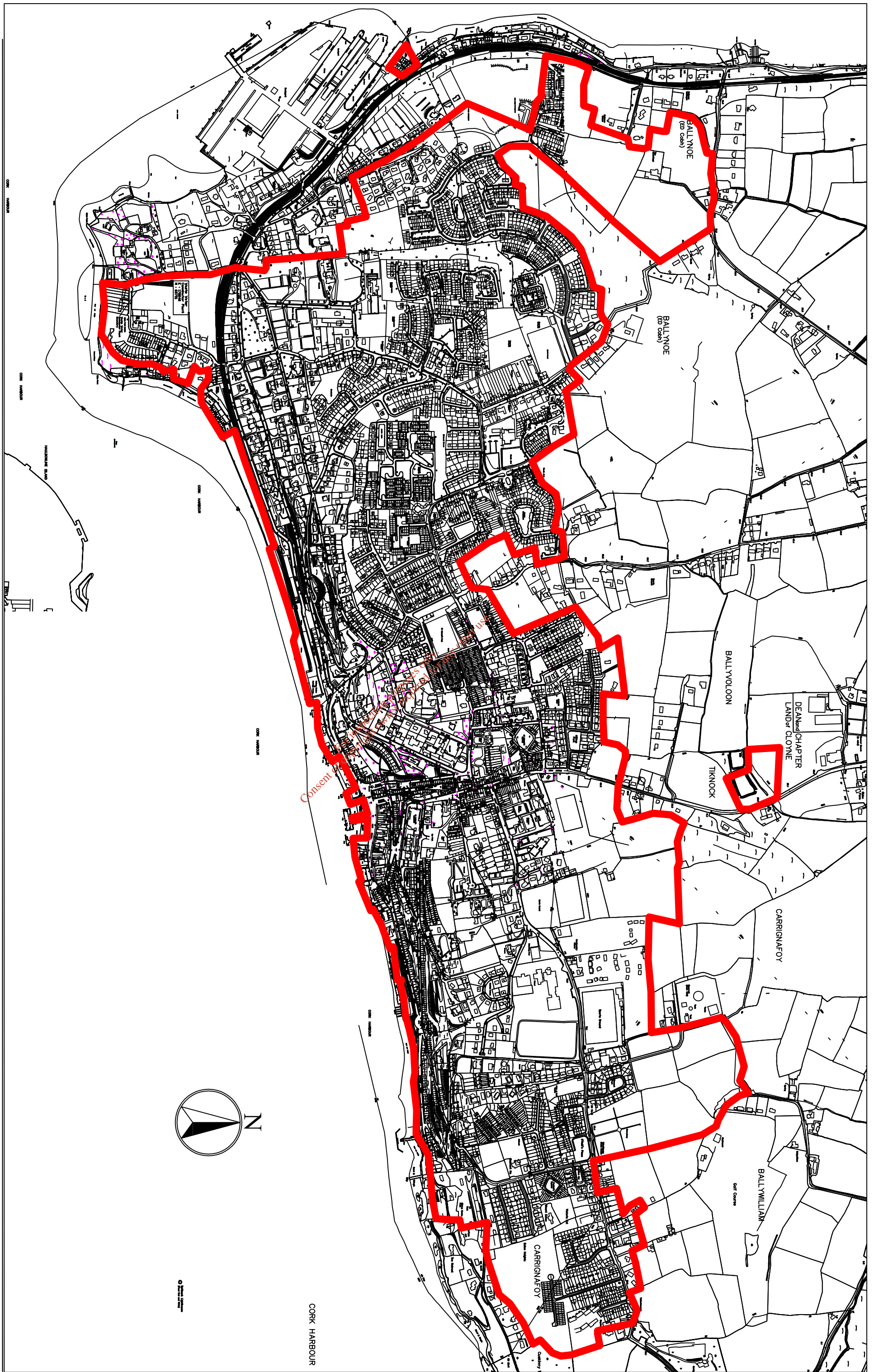
**CORK COUNTY COUNCIL**  
 South Cork Division  
 County Hall,  
 Carrigrohane Rd.,  
 Cork.

Tel. 021-4270691  
 Fax 021-4270321

Rev	By	Date	Description

N.O'Keefe, B.Eng., C.Eng., Furling, F.I.E.I., M.I.C.E., Acting County Engineer County Hall, Cork
P.Power Director of Services South Cork.

Project: EPA LICENCE APPLICATION	Cobh WW
Title: Section: BI-AGGLOMERATION MAP.	
Location: COBH, Co. CORK	
Surveyed: D. O'K	
Drawn: T. McM	
Approved: D. O'K.	
Original Scale: 1:10000	Drawing No:
Signed: Date: Dec. 2007	E1-1





## **ATTACHMENT NO. B2**

**Drawing No. B2-1 Location of Wastewater Comminutor Site**

**Drawing No. B2-2 Location of Wastewater Comminutor Site**

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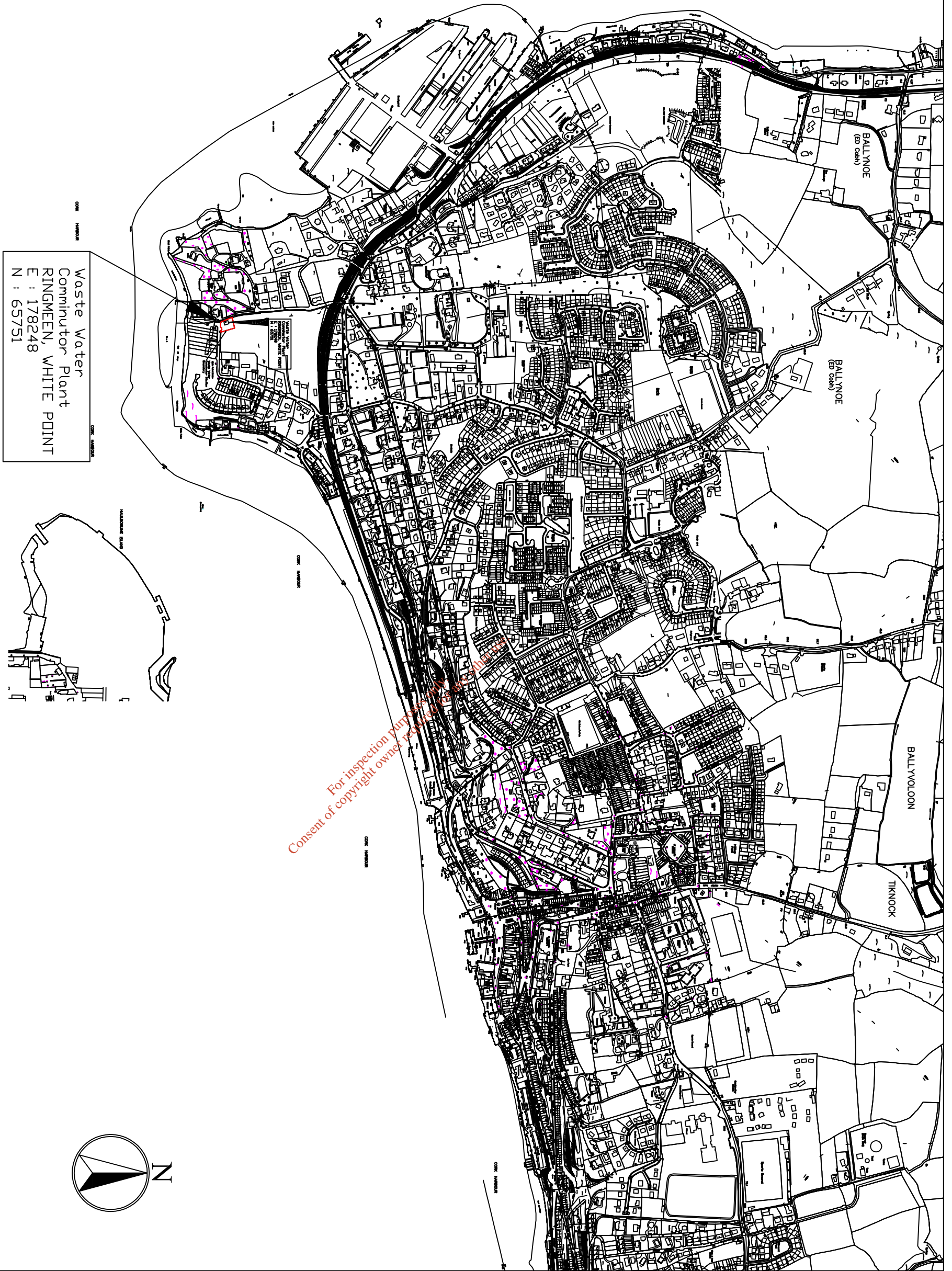


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Rev	By	Date	Description

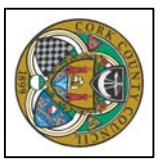
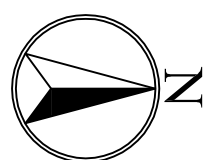
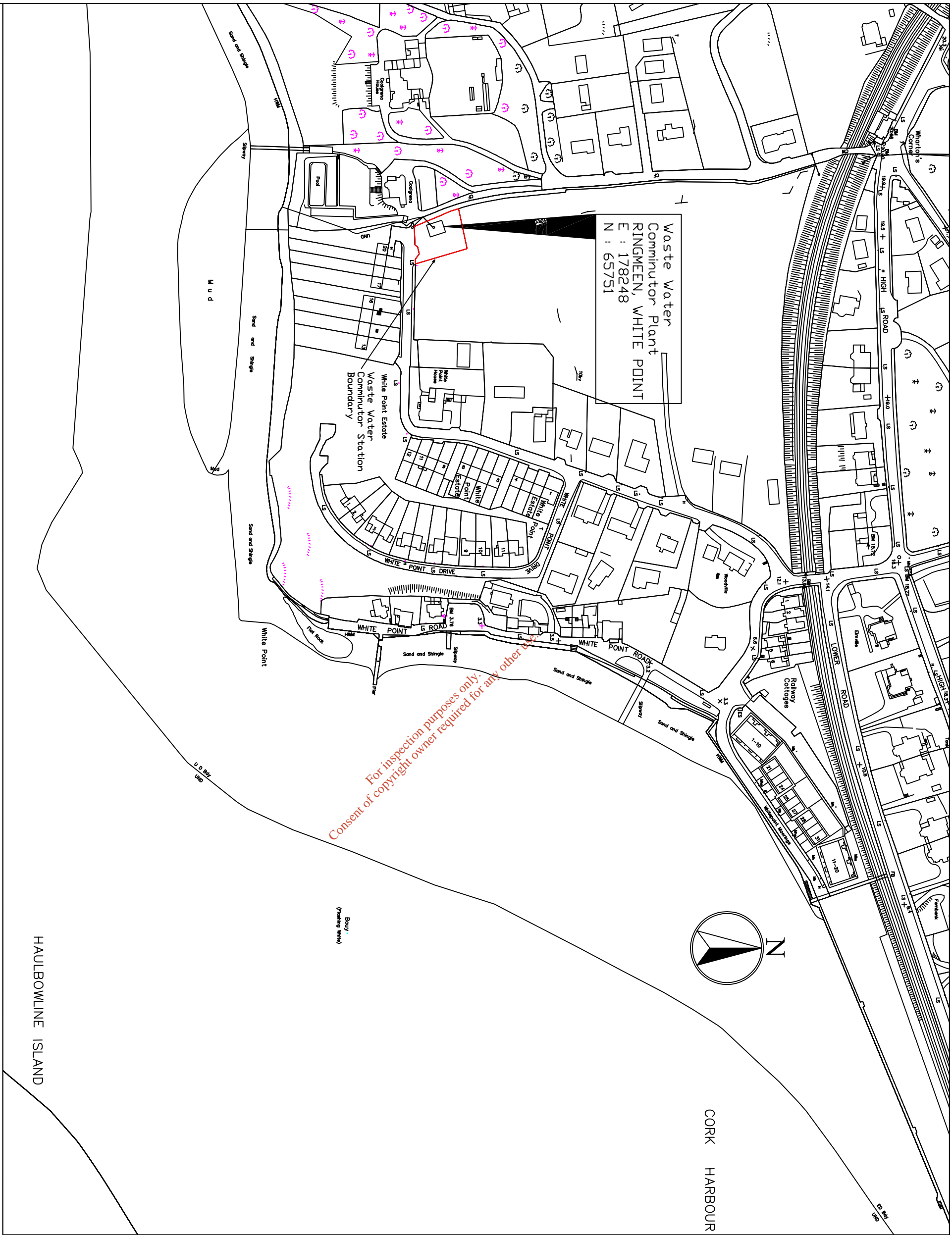
N.O'Keefe, B.Eng., C.Eng., Eur. Ing., F.I.E.I., M.I.C.E.,  
 Acting County Engineer  
 County Hall, Cork  
 P.Power  
 Director of Services  
 South Cork.

**Project: EPA LICENCE APPLICATION      Cogh WW**  
**Title: Section B.2-Location of Waste Water Communitator Site**  
**Location : White Point, Cogh**  
 Surveyed: T. MCM  
 Drawn: T. MCM  
 Approved: D.O'K  
 Original Scales: 1: 10000  
 Signed:      Date: Dec. 2007  
 Drawing No: B2-1



NOTES:

NOTES:



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N.O'Keefe, B.Eng., C.Eng., Eurling, F.I.E.I., M.I.C.E.,  
 Acting County Engineer  
 County Hall, Cork

P.Power  
 Director of Services  
 South Cork.

**Project: EPA LICENCE APPLICATION** **Cobh WW**

Title: **Section B.2-Location of Waste Water Comminutor Site**

Location: **White Point, Cobh**

Surveyed: T. MCM  
 Drawn: T. MCM  
 Approved: D.O'K  
 Signed:   
 Original Seales: 1: 2500  
 Date: Dec. 2007  
 Drawing No: B2-2

## **ATTACHMENT NO. B3**

**Drawing No. B3-1 Primary Discharge Point**

**Drawing No. B3-2 Primary Discharge Point**

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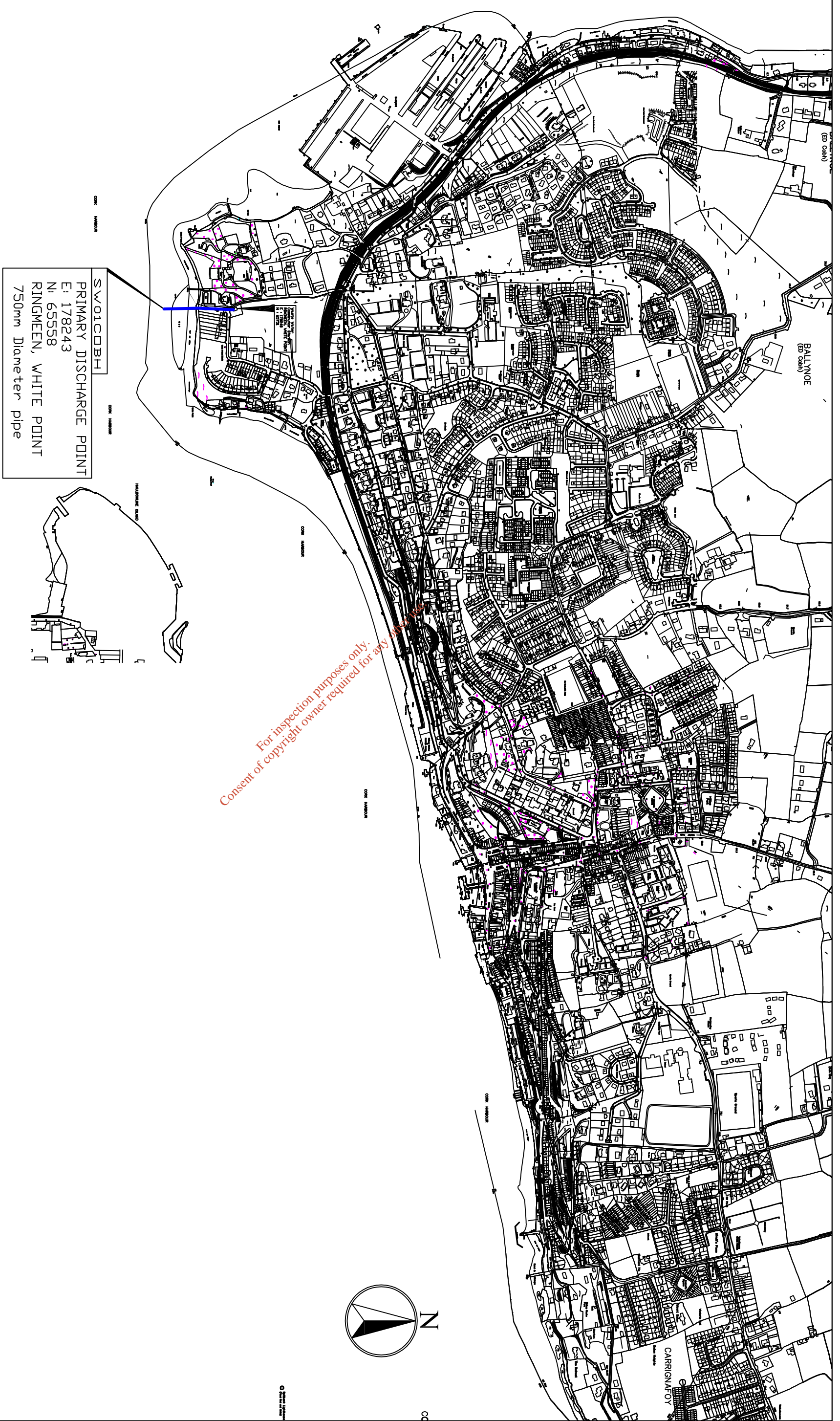


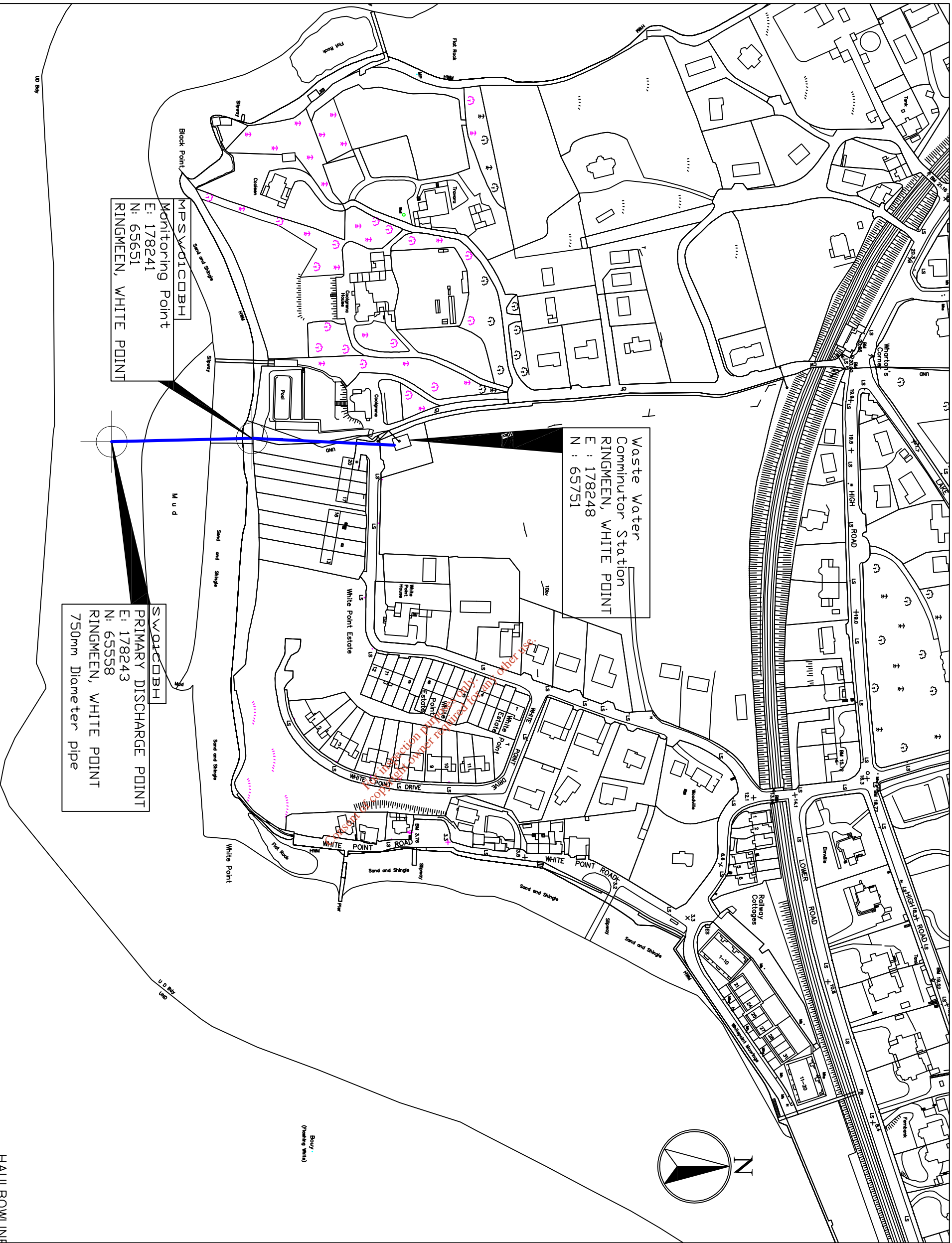
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 Fax 021-4276321

Rev	By	Date	Description

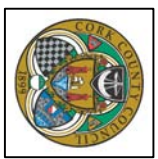
N.O'Keefe, B.Eng., C.Eng., Eur. Ing., F.I.E.I., M.I.C.E.,  
 Acting County Engineer  
 County Hall, Cork  
 P. Power  
 Director of Services  
 South Cork.

**Project: EPA LICENCE APPLICATION Cobh WW**  
**Title: Section B.3. - Primary Discharge Point.**  
 Location : White Point, Cobh  
 Surveyed: T. MCM ATTACHMENT : B.3  
 Drawn: T. MCM Approv. : D.O'K  
 Signed: Original Seales 1:10000 Drawing No: B3-1  
 Date: Nov 2007





HAUL ROWLINE



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 Acting County Engineer  
 County Hall, Cork  
 P.Power  
 Director of Services  
 South Cork.

**Project: EPA LICENCE APPLICATION Cobh WW**  
**Title: Section B.3. - Primary Discharge Point.**  
 Location : White Point, Cobh  
 Surveyed: T. MCM  
 Drawn: T. MCM  
 Approved: D.O'K  
 Original Seales: 1: 2500  
 Date: Dec. 2007  
 Drawing No: B3-2

## **ATTACHMENT NO. B4**

**Drawing No. B4-1 Location of Secondary Discharge Points**

**Drawing No. B4-2 Location of Secondary Discharge Points**

**Drawing No. B4-3 Location of Secondary Discharge Points**

**Drawing No. B4-4 Location of Secondary Discharge Points**

**Drawing No. B4-5 Location of Secondary Discharge Points**

**Drawing No. B4-6 Location of Secondary Discharge Points**

**Drawing No. B4-7 Location of Secondary Discharge Points**

**Drawing No. B4-8 Location of Secondary Discharge Points**

**Drawing No. B4-9 Location of Secondary Discharge Points**



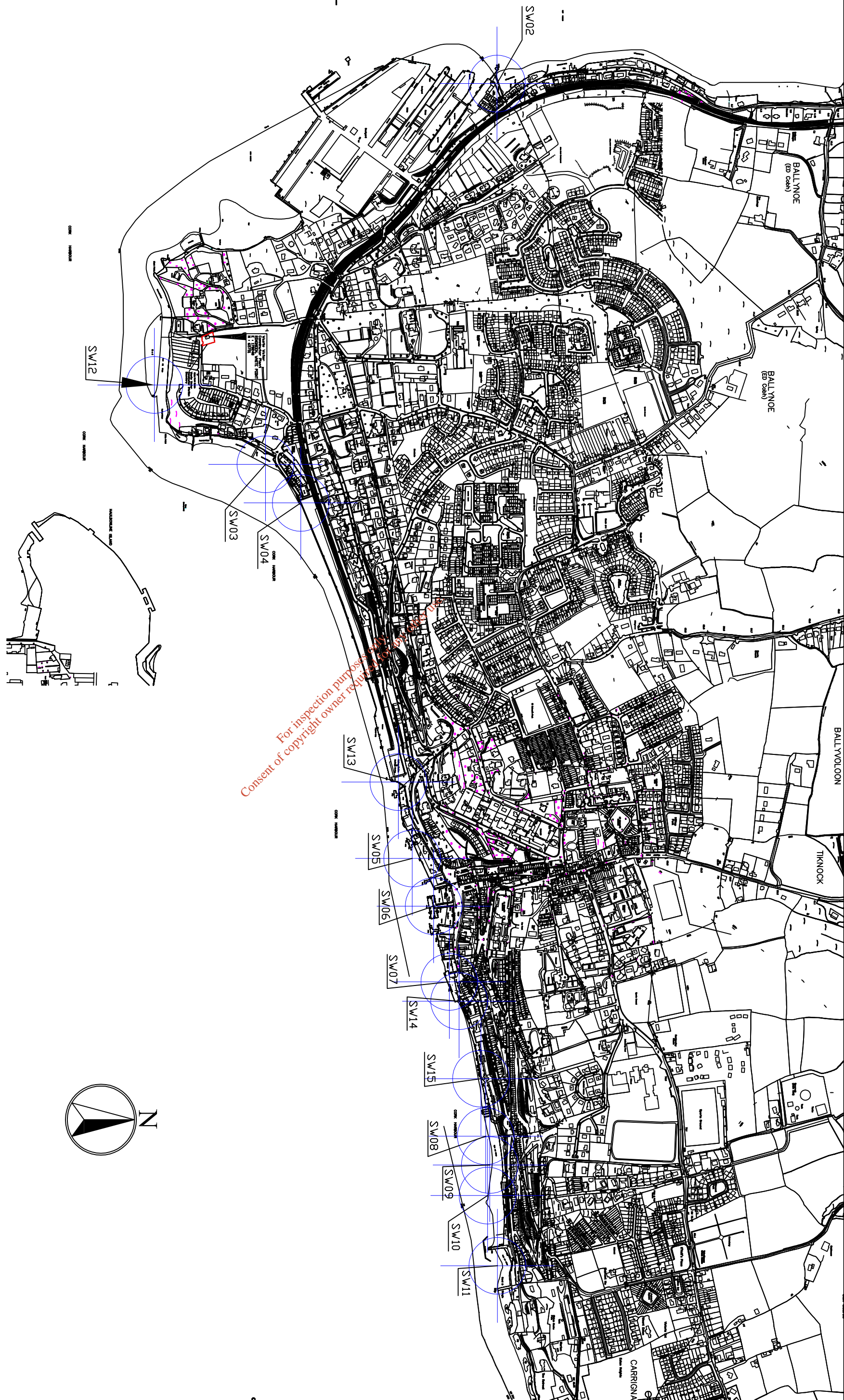
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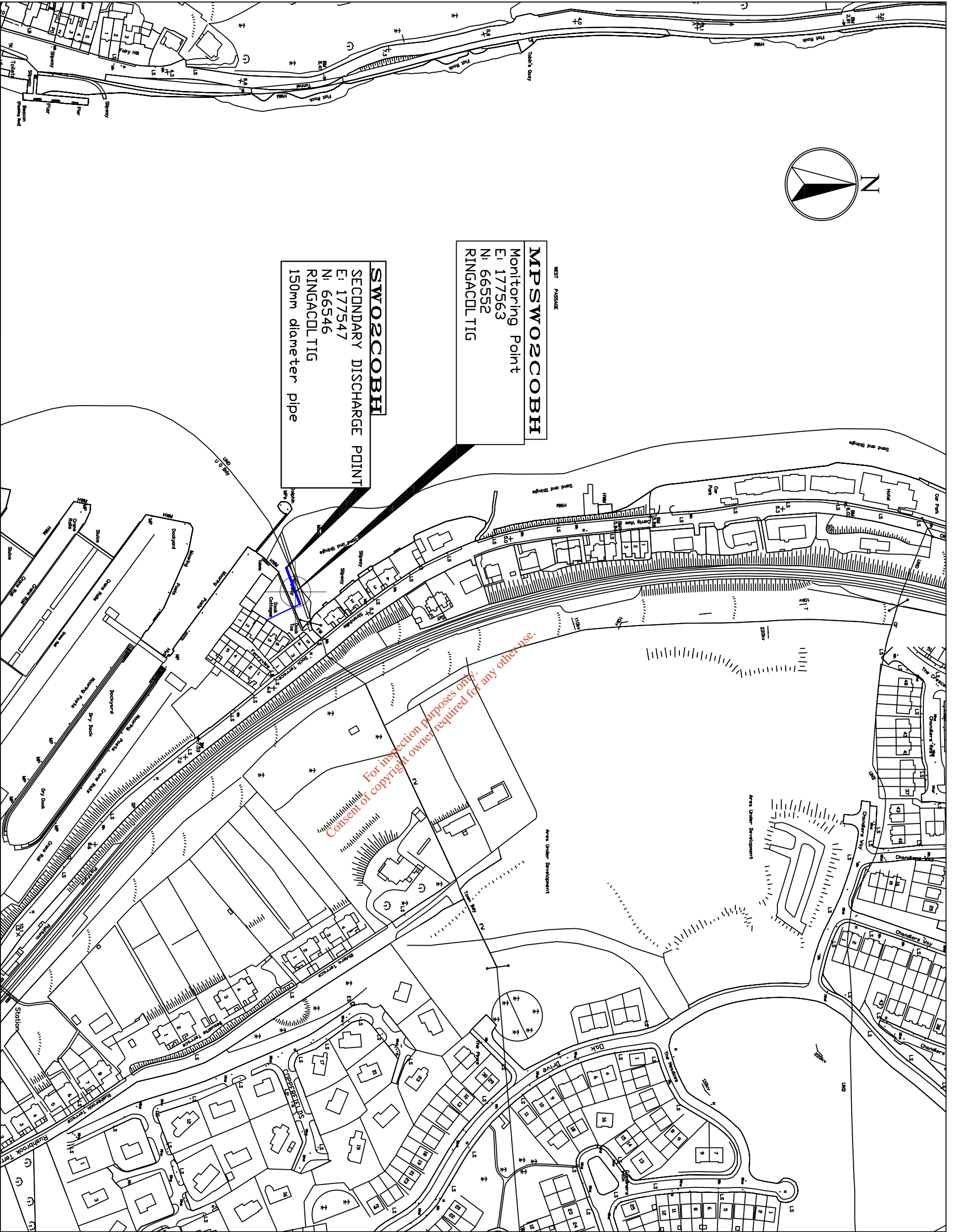
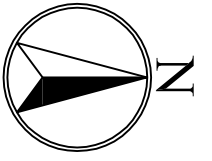
Rev	By	Date	Description

N.O'Keefe, B.Eng., C.Eng., Eur. Ing., F.I.E.I., M.I.C.E., Acting County Engineer County Hall, Cork
P. Power Director of Services South Cork.

<b>Project:</b> EPA LICENCE APPLICATION	<b>Cobh WW</b>
<b>Title:</b> Section B.4-Location of Secondary Discharge Points	
<b>Location:</b> Cobh	
<b>Surveyed:</b> T. MCM	<b>Approved:</b> D.O'K.
<b>Drawn:</b> T. MCM	<b>Original Scale:</b> 1: 10000
<b>Signed:</b>	<b>Date:</b> Dec. 2007
	<b>Drawing No:</b> B4-1







**MPSWO2COBH**  
 Monitoring Point  
 E: 177563  
 N: 66552  
 RINGACDL TIG

**SWO2COBH**  
 SECONDARY DISCHARGE POINT  
 E: 177547  
 N: 66546  
 RINGACDL TIG  
 150mm diameter pipe

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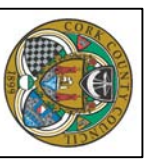
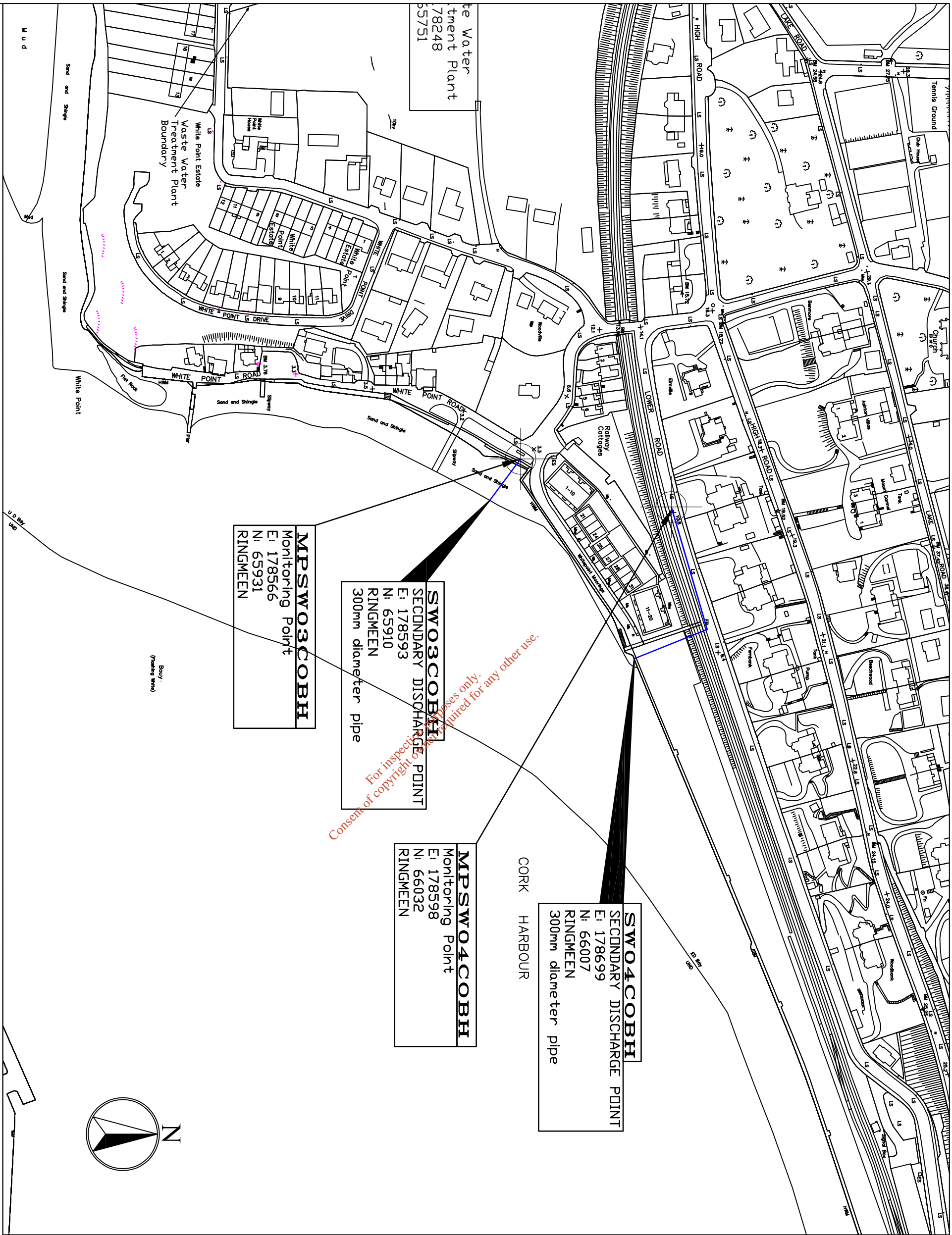
Rev	By	Date	Description

N.O'Keefe, B.Eng., C.Eng., Furling, F.I.E.I., M.I.C.E.,  
 Acting County Engineer  
 County Hall, Cork  
 P.Power  
 Director of Services  
 South Cork.

**Project: EPA LICENCE APPLICATION**      **Cobh WW**  
**Title: Section B.4 - Secondary Discharge Point.**  
**Location: Ringacollig, Cobh**  
 Surveyed: T. MCM      Approved: D.O'K  
 Drawn: T. MCM      Original Seales: 1: 2500      Drawing No: B4-2  
 Signed:      Date: Dec. 2007

NOTES:

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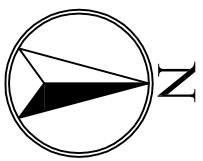
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Rev	By	Date	Description

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 County Hall, Cork

P. Power  
 Director of Services  
 South Cork.

Project: **EPA LICENCE APPLICATION** Cobh WW  
 Title: **Section B4-Location Secondary Discharge Points.**  
 Location: **Ringmeen, Cobh**  
 Surveyed: T. M.G.M.  
 Drawn: T. M.G.M. Approved: D.O'K.  
 Original Seales 1: 2500  
 Date: Dec. 2007  
 Drawing No: **B4-3**



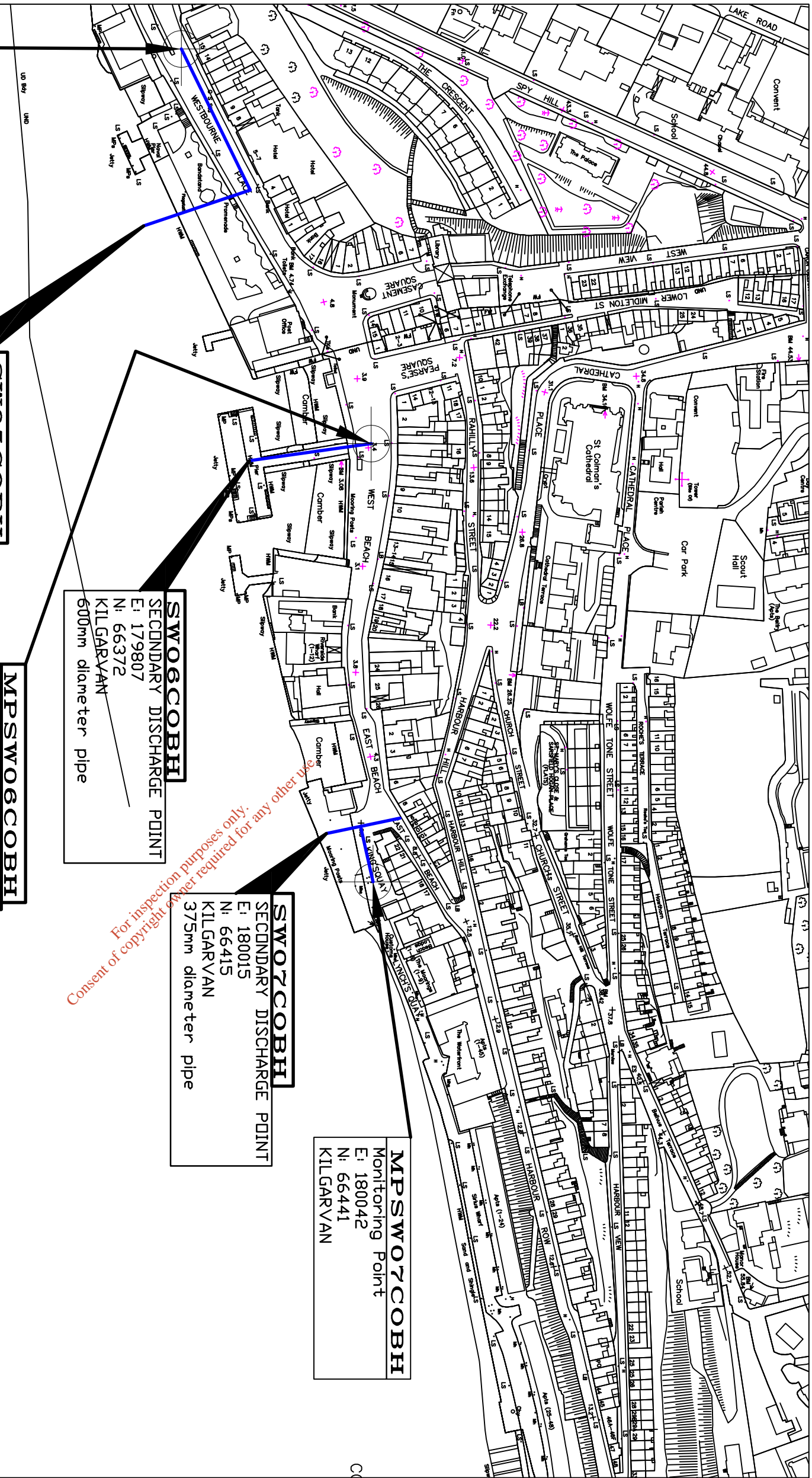
**MPsw03COBH**  
 Monitoring Point  
 E: 178566  
 N: 65931  
 RINGMEEN

**SWO3COBH**  
 SECONDARY DISCHARGE POINT  
 E: 178593  
 N: 65910  
 RINGMEEN  
 300mm diameter pipe

**MPsw04COBH**  
 Monitoring Point  
 E: 178598  
 N: 66032  
 RINGMEEN

**SWO4COBH**  
 SECONDARY DISCHARGE POINT  
 E: 178699  
 N: 66007  
 RINGMEEN  
 300mm diameter pipe

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**MPSW05COBH**  
Monitoring Point  
E: 179577  
N: 66334  
BALLYVOOLDON

**SW05COBH**  
SECONDARY DISCHARGE POINT  
E: 179676  
N: 66313  
BALLYVOOLDON  
300mm diameter pipe

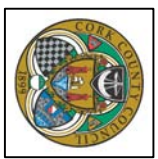
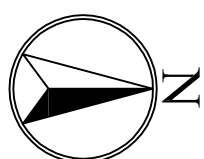
**SW06COBH**  
SECONDARY DISCHARGE POINT  
E: 179807  
N: 66372  
KILGARVAN  
600mm diameter pipe

**MPSW06COBH**  
Monitoring Point  
E: 179798  
N: 66440  
BALLYVOOLDON

**SW07COBH**  
SECONDARY DISCHARGE POINT  
E: 180015  
N: 66415  
KILGARVAN  
375mm diameter pipe

**MPSW07COBH**  
Monitoring Point  
E: 180042  
N: 66441  
KILGARVAN

CORK HARBOUR

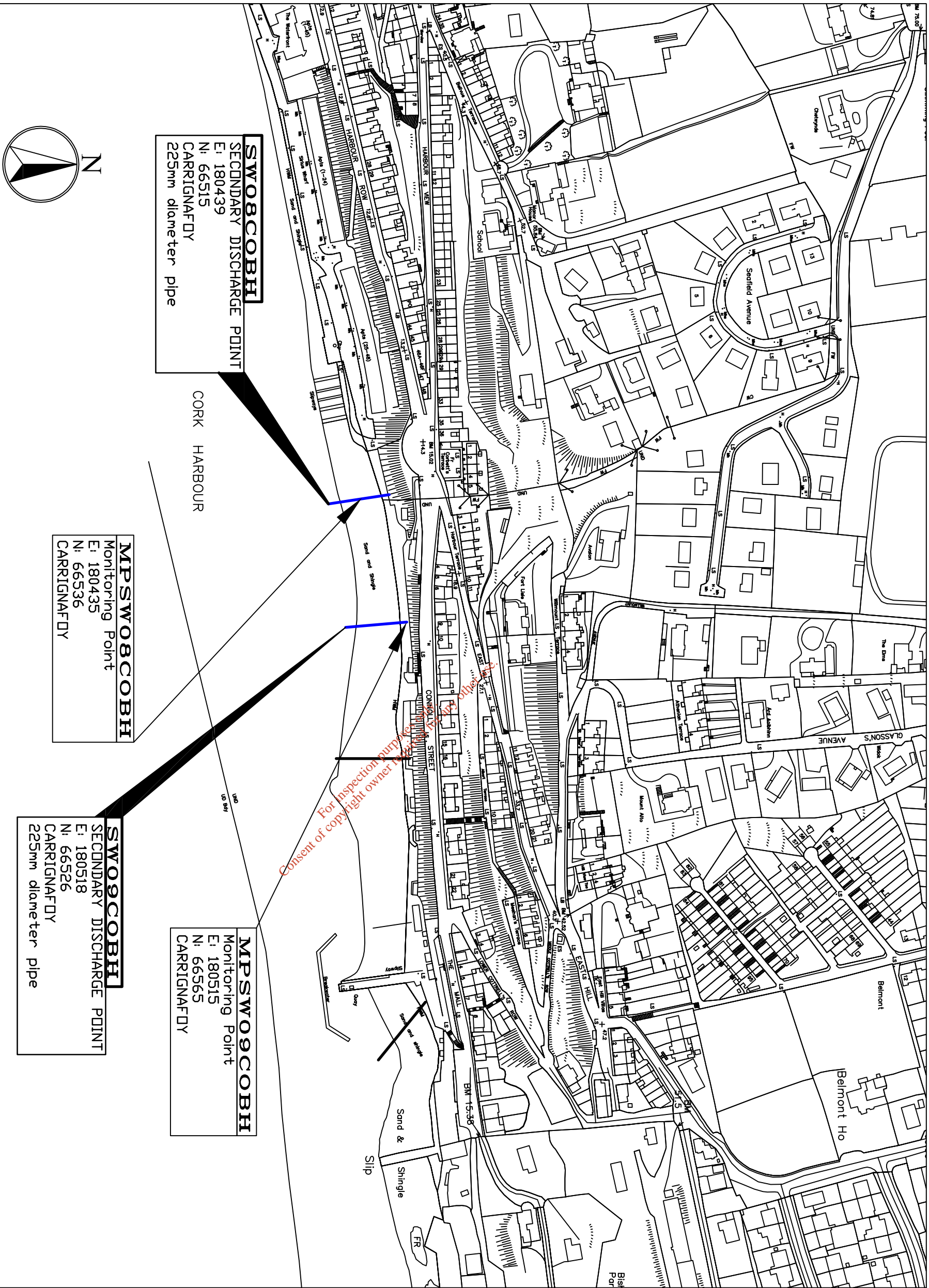


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Rev	By	Date	Description

N.O'Keefe, B.Eng., C.Eng., Eur. Ing., F.I.E.I., M.I.C.E.,  
Acting County Engineer  
County Hall, Cork  
P.Power  
Director of Services  
South Cork.

**Project: EPA LICENCE APPLICATION Cobh WW**  
**Title: Section B4-Location Secondary Discharge Points.**  
**Location: Ballyvooloon / Kilgarvan, Cobh**  
Surveyed: T. MCM  
Drawn: T. MCM  
Signed: T. MCM  
Approved: D.O'K  
Original Seales: 1: 2500  
Date: Dec. 2007  
Drawing No: B4-4



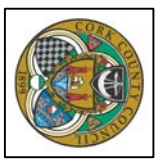
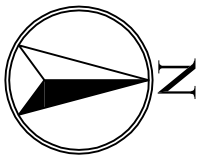
**SW08COBH**  
 SECONDARY DISCHARGE POINT  
 E: 180439  
 N: 66515  
 CARRIGNAFDY  
 225mm diameter pipe

CORK HARBOUR

**MP SW08COBH**  
 Monitoring Point  
 E: 180435  
 N: 66536  
 CARRIGNAFDY

**SW09COBH**  
 SECONDARY DISCHARGE POINT  
 E: 180518  
 N: 66526  
 CARRIGNAFDY  
 225mm diameter pipe

**MP SW09COBH**  
 Monitoring Point  
 E: 180515  
 N: 66565  
 CARRIGNAFDY



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Rev	By	Date	Description

N.O'Keefe, B.Eng., C.Eng., Eur. Ing., F.I.E.I., M.I.C.E.,  
 Acting County Engineer  
 County Hall, Cork

P. Power  
 Director of Services  
 South Cork.

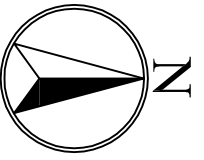
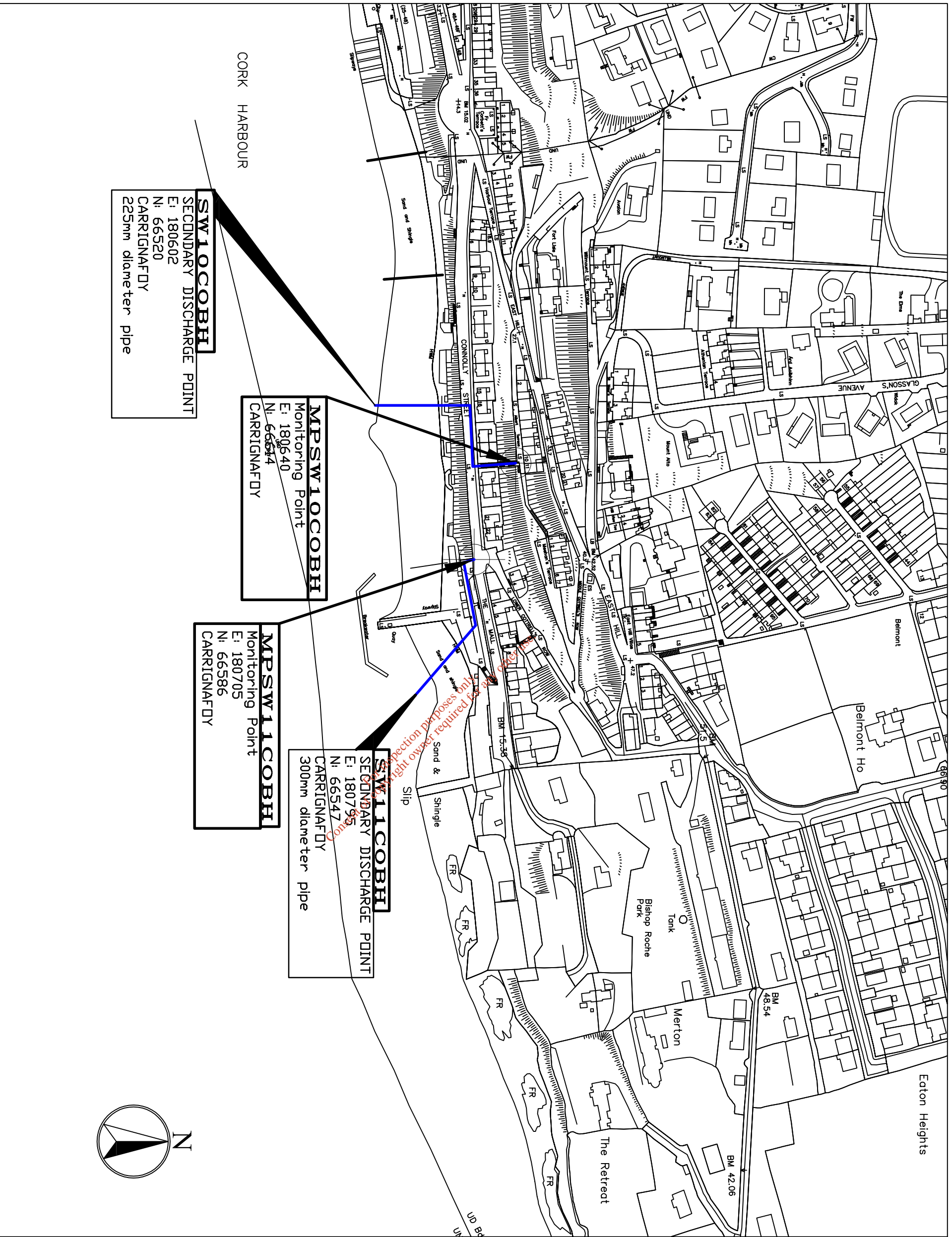
**Project: EPA LICENCE APPLICATION Cobh WW**

**Title: Section: B4-Location Secondary Discharge Points.**

**Location: Carrignafdy, Cobh**

Surveyed: T. MCM  
 Drawn: T. MCM  
 Signed: T. MCM

Approved: D.O'K.  
 Original Seales: 1: 2500  
 Date: Dec. 2007  
 Drawing No: **B4-5**



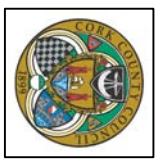
CORK HARBOUR

**SW11COBH**  
 SECONDARY DISCHARGE POINT  
 E: 180602  
 N: 66520  
 CARRIGNAFDY  
 225mm diameter pipe

**MP11COBH**  
 Monitoring Point  
 E: 180640  
 N: 66534  
 CARRIGNAFDY

**MP11COBH**  
 Monitoring Point  
 E: 180705  
 N: 66586  
 CARRIGNAFDY

**SW11COBH**  
 SECONDARY DISCHARGE POINT  
 E: 180795  
 N: 66547  
 CARRIGNAFDY  
 300mm diameter pipe



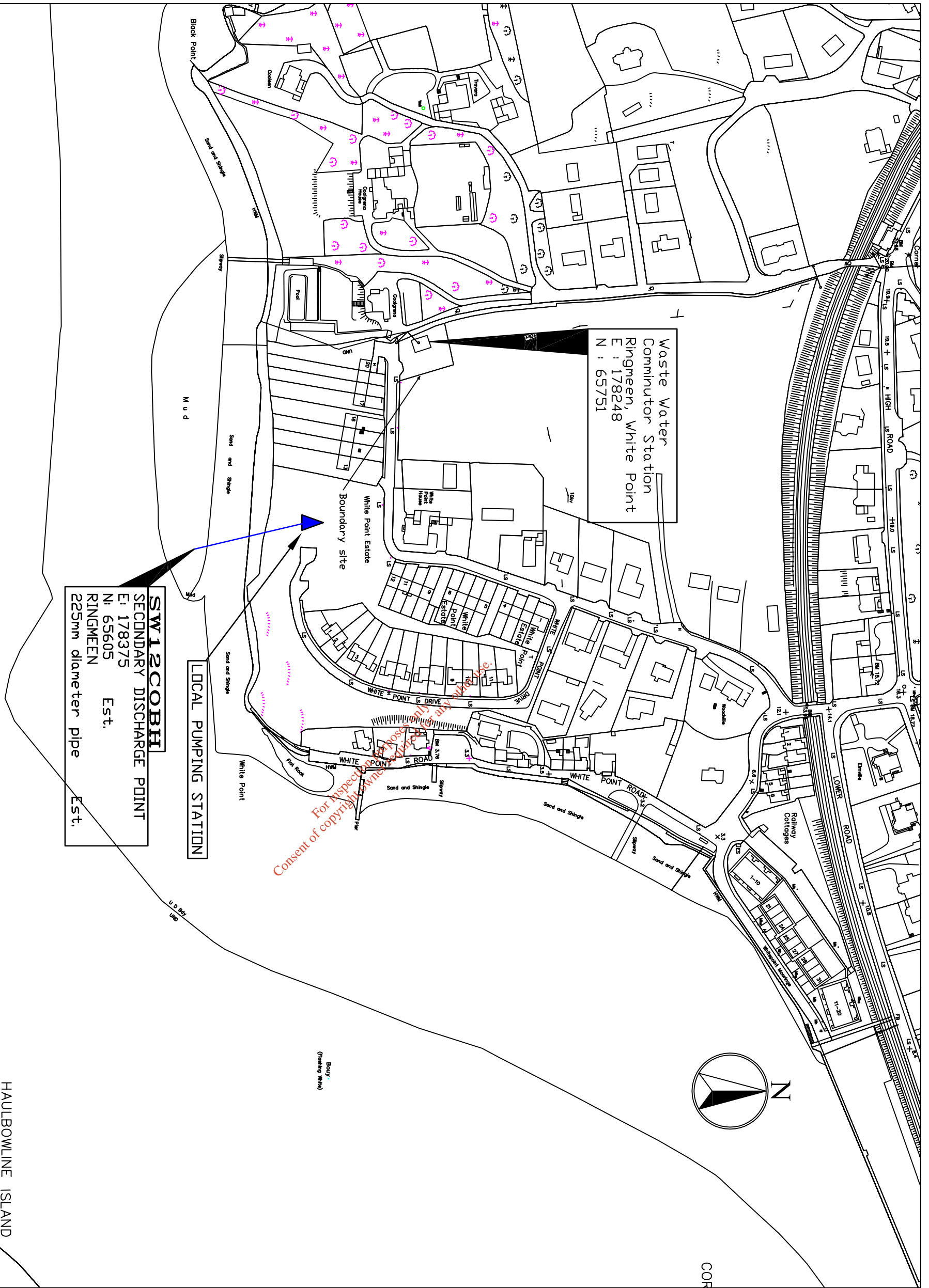
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N.O'Keefe, B.Eng., C.Eng., Eur. Ing., F.I.E.I., M.I.C.E.,  
 Acting County Engineer  
 County Hall, Cork

P. Power  
 Director of Services  
 South Cork.

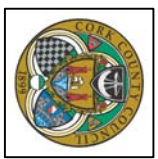
Project: **EPA LICENCE APPLICATION** Cobh WW  
 Title: Section: **B4-Location Secondary Discharge Points.**  
 Location: **Carrignafdy, Cobh**  
 Surveyed: T. MCM  
 Drawn: T. MCM  
 Approved: D.O'K.  
 Signed: \_\_\_\_\_  
 Original Scales: 1: 2500  
 Date: Nov. 2007  
 Drawing No: **B4-6**



**SW12COBH**  
 SECONDARY DISCHARGE POINT  
 E: 178375  
 N: 65605 Est.  
 RINGMEEN  
 225mm diameter pipe Est.

**LOCAL PUMPING STATION**

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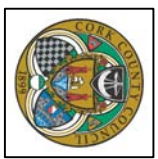


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 Fax: 021-4276921

Rev	By	Date	Description

N.O'Keefe, B.Eng., C.Eng., Eur. Ing., F.I.E.L., M.I.C.E.,  
 Acting County Engineer  
 County Hall, Cork  
 P. Power  
 Director of Services  
 South Cork.

**Project: Cobh WW EPA LICENCE APPLICATION**  
**Title: Section: B4-Location of Secondary Discharge Points**  
 Location: Ringmeen, Cobh  
 Surveyed: T. McG  
 Drawn: T. McG  
 Approved: D.O'K.  
 Signed: [Signature]  
 Original Seales: 1: 2500  
 Date: Dec. 2007  
 Drawing No: B4-7



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 Carrigrohane Rd.,  
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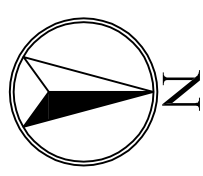
Tel. 021-4276891  
 Fax 021-4276321

Rev	By	Date	Description

N.O'Keefe, B.Eng., C.Eng., Eurling, F.I.E.I., M.I.C.E., Acting County Engineer County Hall, Cork
P.Power Director of Services South Cork.

<b>Project:</b> EPA LICENCE APPLICATION	<b>Cobh WW</b>
<b>Title:</b> Section B4-Location of Secondary Discharge Points	
<b>Location:</b> Ringmeen, Cobh	
<b>Surveyed:</b> T. MCM	<b>Approv:</b> D.O'K
<b>Drawn:</b> T. MCM	<b>Original Scales:</b> 1: 2500
<b>Signed:</b>	<b>Date:</b> Nov. 2007
	<b>Drawing No:</b> B4-3

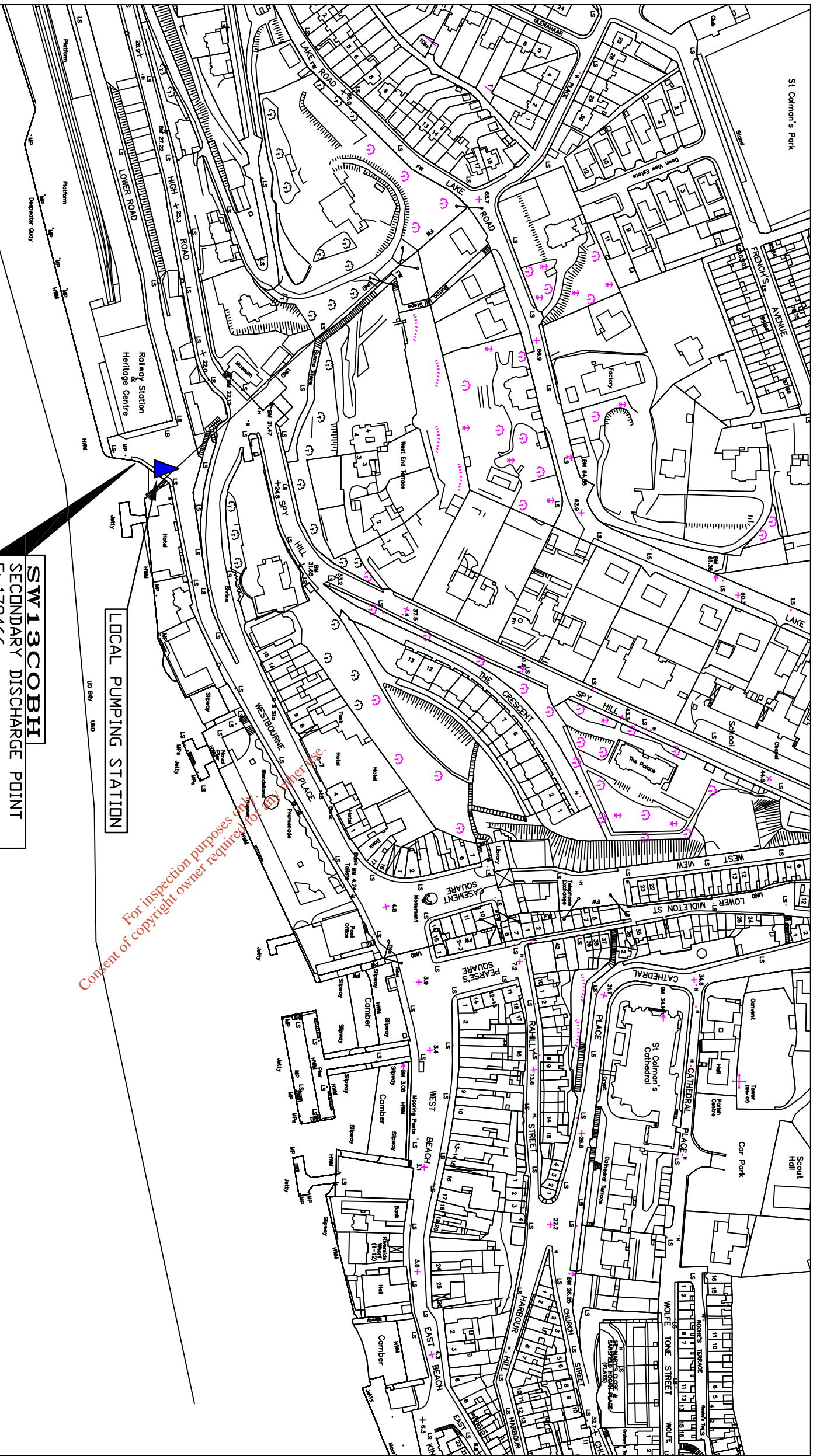
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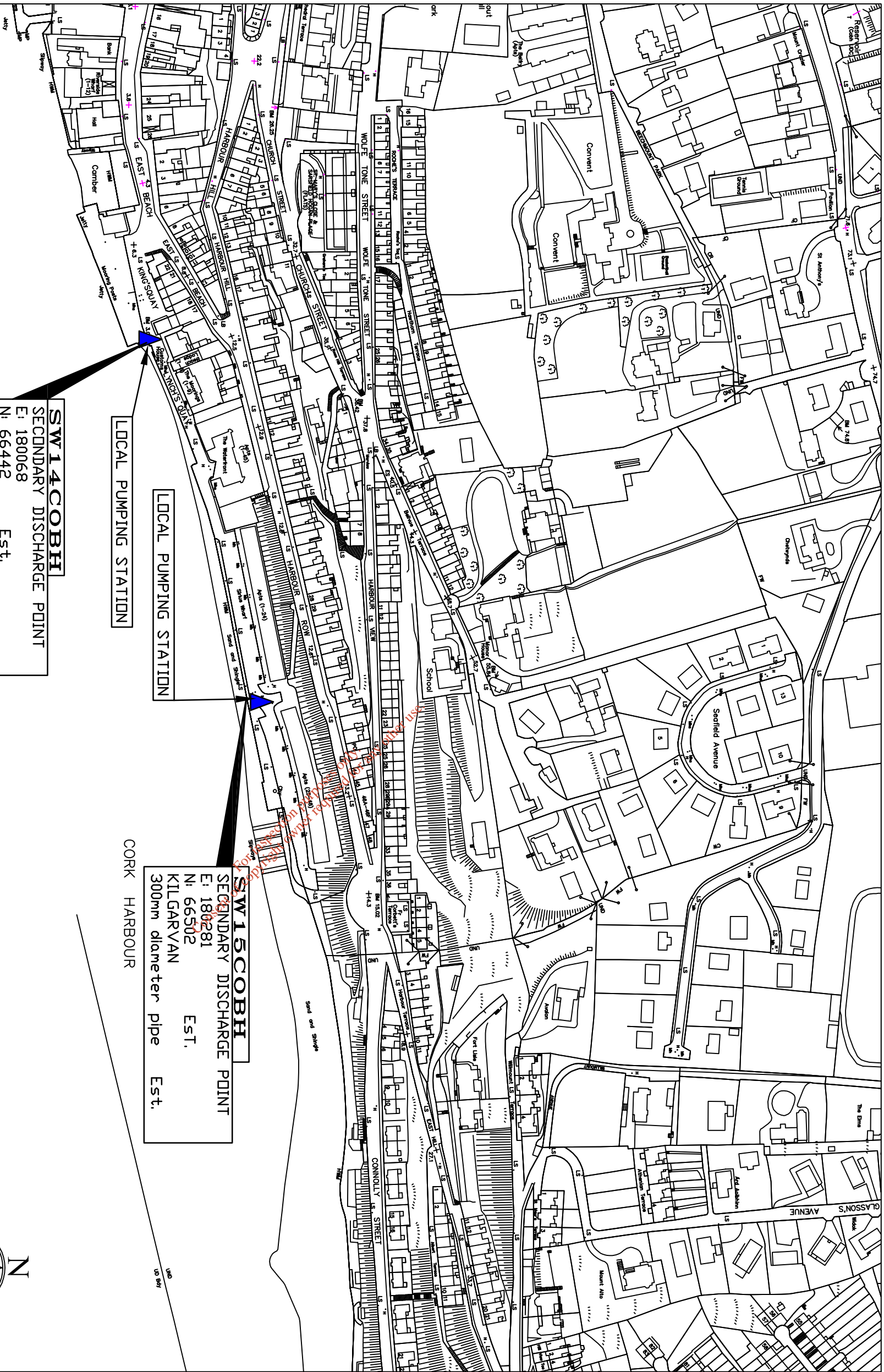
**SW13COBH**  
 SECONDARY DISCHARGE POINT  
 E: 179466  
 N: 66275  
 RINGMEEN  
 Est.  
 225mm diameter pipe

LOCAL PUMPING STATION

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NOTES:



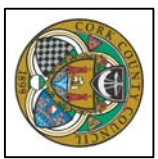
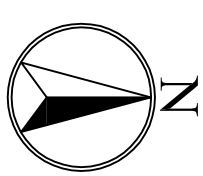
**SW 14 COBH**  
 SECONDARY DISCHARGE POINT  
 E: 180068  
 N: 66442  
 KILGARVAN  
 225mm diameter pipe Est.

LOCAL PUMPING STATION

LOCAL PUMPING STATION

**SW 15 COBH**  
 SECONDARY DISCHARGE POINT  
 E: 180281  
 N: 66502  
 KILGARVAN  
 300mm diameter pipe Est.

CORK HARBOUR



**CORK COUNTY COUNCIL**  
 South Cork Division  
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Rev	By	Date	Description

N.O'Keefe, B.Eng., C.Eng., Eur. Ing., F.I.E.L., M.I.C.E., Acting County Engineer County Hall, Cork
P. Power Director of Services South Cork.

Project: <b>EPA LICENCE APPLICATION</b>	Cobh WW
Title: <b>Section B.4. - Location of Secondary Discharge Point</b>	
Location: <b>Kilgarvan, Cobh</b>	
Surveyed: <b>T. MCM</b>	
Drawn: <b>T. MCM</b>	Checked: <b>D.O'K</b>
Signed:	Original Seales: <b>1: 2500</b>
Date: <b>Dec. 2007</b>	Drawing No: <b>B4-9</b>