

Attachment B.12

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Attachment B12

- Foreshore Licence – Specific Conditions

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An Roinn Cumarsáide
Rannóg Mhuiri,
Teach Apollo,
Sráid Teamhrach,
Baile Átha Cliath 2.
Teilifón 719799 Teilercs 24651

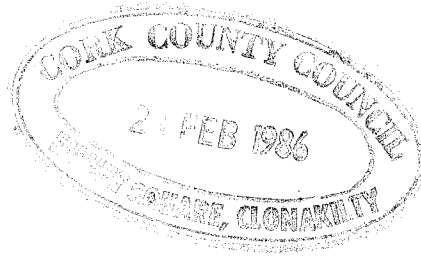
Department of Communications
Marine Division,
Apollo House,
Tara Street,
Dublin 2.
Telephone 719799 Telex 24651.

Ref. No.

M S 51/8/793

19 February 1986

Mr D A Daly
Administrative Office
Cork County Council
Emmet Square
Clonakilty
Co Cork



Re: Application for permission under the Foreshore Act, 1933
to lay a sewage effluent outfall discharge pipe on the
foreshore at Ballydehob, Co. Cork

Dear Sir

I refer to previous correspondence regarding the above
matter.

I enclose herewith your part of the deed duly stamped.

Please acknowledge receipt of this letter and enclosure.

Yours faithfully

Camel Daly.
C Daly
Foreshore Section

Ack

20 ES-006

02/21

MEMORANDUM OF AGREEMENT made the 23 day of January,

1986 BETWEEN THE MINISTER FOR COMMUNICATIONS (hereinafter

called "the Minister") of the one part

and CORK COUNTY COUNCIL of County Hall, Cork (hereinafter

called "the Licensee") of the other part WHERE-

AS the Licensee has applied to the Minister for a licence to use and occupy that part of the foreshore at Ballydehob in the County of Cork more particularly delineated on the map annexed hereto and thereon coloured red for the purpose of laying using and maintaining a sewage effluent outfall discharge pipe

AND WHEREAS the Minister in exercise of the powers vested in him by Section 3 of the Foreshore Act, 1933 hereby grants to the Licensee licence to use and occupy the said part of the foreshore on the terms and conditions following:-

1. This licence shall remain in force for the term of ninety-nine years from the date hereof except as hereinafter provided.
2. The Licensee shall use that part of the foreshore the subject matter of this licence for the purpose of laying using and maintaining a sewage effluent outfall discharge pipe and for no other purpose whatsoever.
3. The Licensee shall at all times during the continuance of this licence keep the said sewage effluent outfall discharge pipe in a good and proper state of repair and condition to the satisfaction of the Minister and ensure that it will not be injurious to navigation, the adjacent lands or the public interest.
4. The Licensee shall cause the said sewage effluent

Contd./...



outfall discharge pipe to discharge below the low water mark at all times and shall ensure that all care is taken in the design construction and use of the said sewage effluent outfall discharge pipe so that there will be no seepage of effluent on to the foreshore.

5. The Licensee shall ensure that no sludge is discharged through the said sewage effluent outfall discharge pipe.
6. The Licensee shall indemnify and keep indemnified the State the Minister, their officers, agents and employees against all actions, loss, claims, damages, costs, expenses and demands arising in any manner whatsoever in connection with the construction maintenance or user of the said sewage effluent outfall discharge pipe or in the exercise of the permission hereby granted.
7. The Minister shall be at liberty at any time to terminate this licence by giving to the Licensee three months previous notice in writing ending on any day and upon determination of such notice the licence and permission hereby granted shall be deemed to be revoked and withdrawn without the liability for the payment of any compensation by the Minister to the Licensee.
8. The Licensee shall if so required by the Minister within three months after receipt of such notice or on determination of this licence from any other cause at its own expense remove the said sewage effluent outfall discharge pipe and restore the foreshore to its former condition to the satisfaction of the Minister and if the Licensee refuses or fails to do

Contd./...

so the Minister may cause the said sewage effluent outfall discharge pipe to be removed and the foreshore to be restored and shall be entitled to be paid by and to recover from the Licensee as a civil debt due to the State all costs and expenses incurred by him in connection with such removal and restoration.

9. In the event of the breach non-performance or non-observance by the Licensee of any of the conditions herein contained the Minister may forthwith terminate this licence without prior notice to the Licensee.

10. Any notice to be given by the Minister may be transmitted through the Post Office addressed to the Licensee at its last known address.

PRESENT when the Seal of)
Office of the Minister for)
Communications was affixed)
and was authenticated by)
the signature of:)

J. Mahony

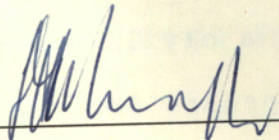
D. O. Mahony

A person authorised under Section 15(1) of the Ministers and Secretaries Act, 1924 to authenticate the seal of the Minister.

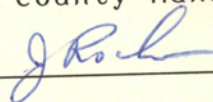
WITNESS: *Marie Muroque*)
ADDRESS: *Dept of Communications*)
Kildare Street)
OCCUPATION: *Civil Servant*)

Contd./...

PRESENT when the Common)
Seal of the Licensee was)
affixed hereto:)



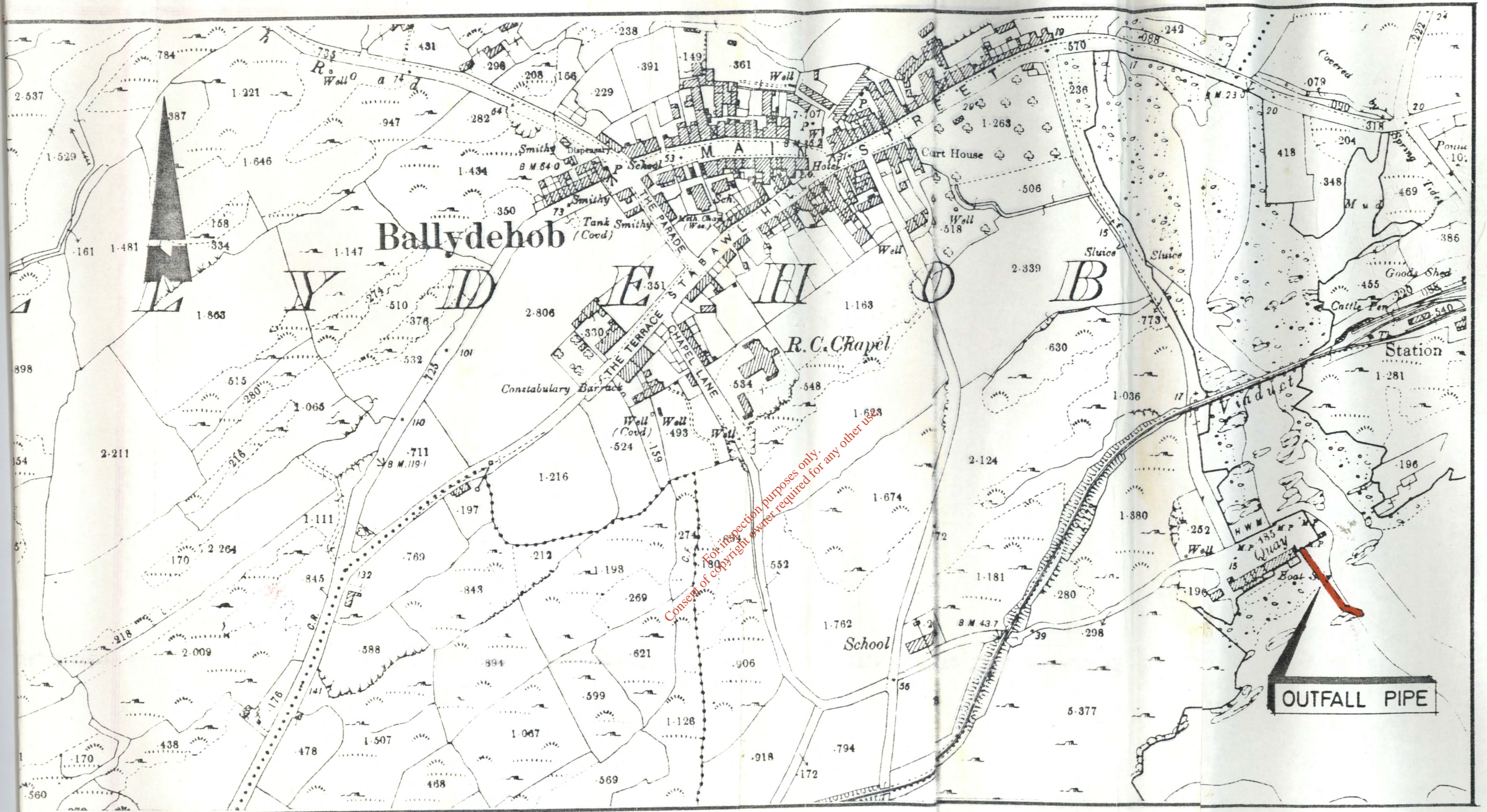
Asst. County Manager



Chairman or Nominated

Member.

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LAYOUT PLAN OF OUTFALL

Reproduced from the Ordnance Survey sheet 40-6 by permission of the Government permit no 36, 34

Dated this day of

198

MEMORANDUM OF AGREEMENT

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Louis J. Dockery,
Chief State Solicitor,
Dublin Castle,
Dublin 2.

JMW/ P0' C

Attachment C.1

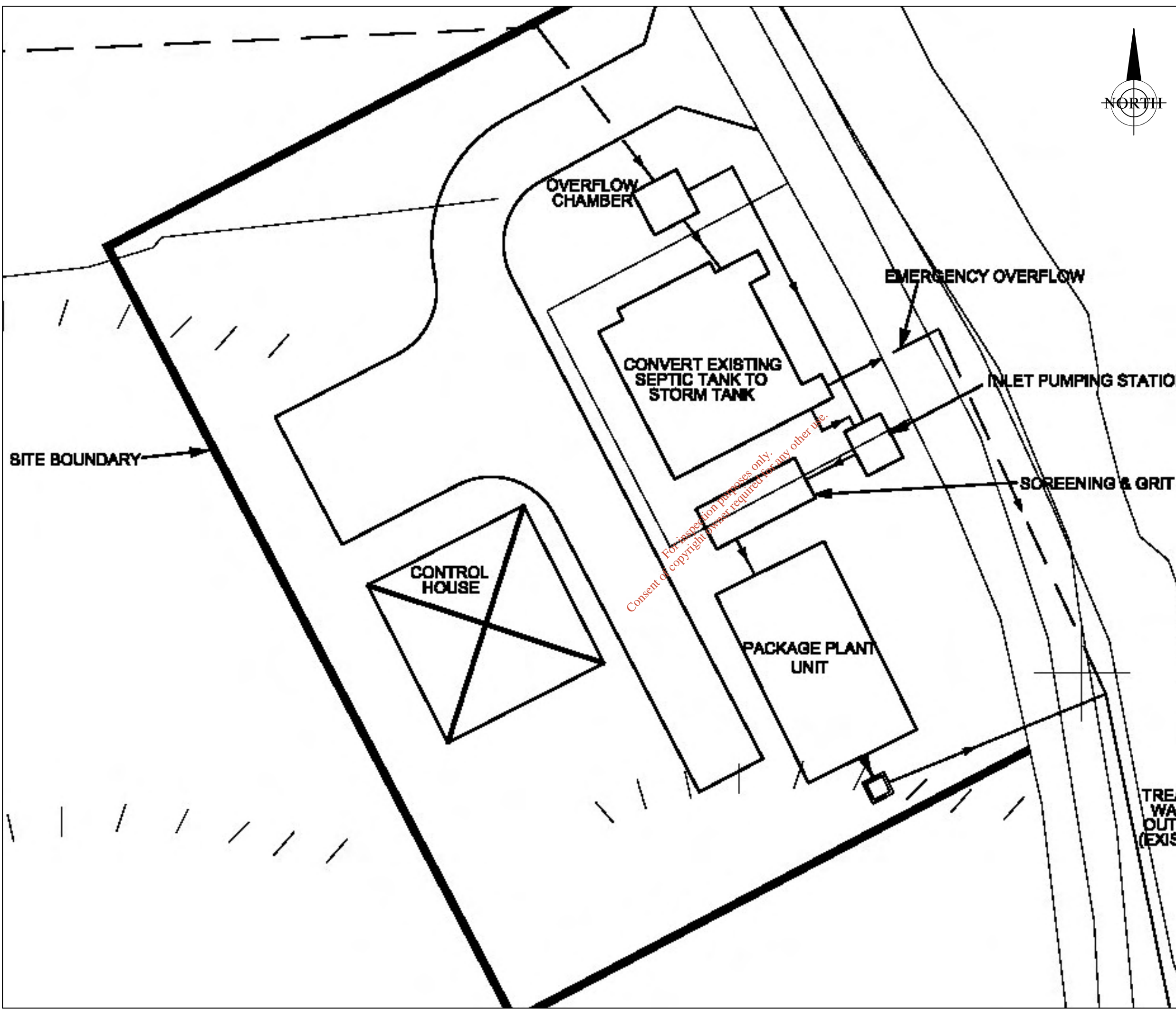
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Attachment C.1

Drawing:

- BALL C1.01 LAYOUT OF PROPOSED WWTP
- BALL C1.02 LAYOUT PLAN SHOWING SEWERS
- BALL C1.03 EXISTING PUMP STATION
- BALL C1.04 PROCESS FLOW DIAGRAM

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No.	Date	Drawn	Child	Revision Description

**Cork County Council,
Western Division.**



1899

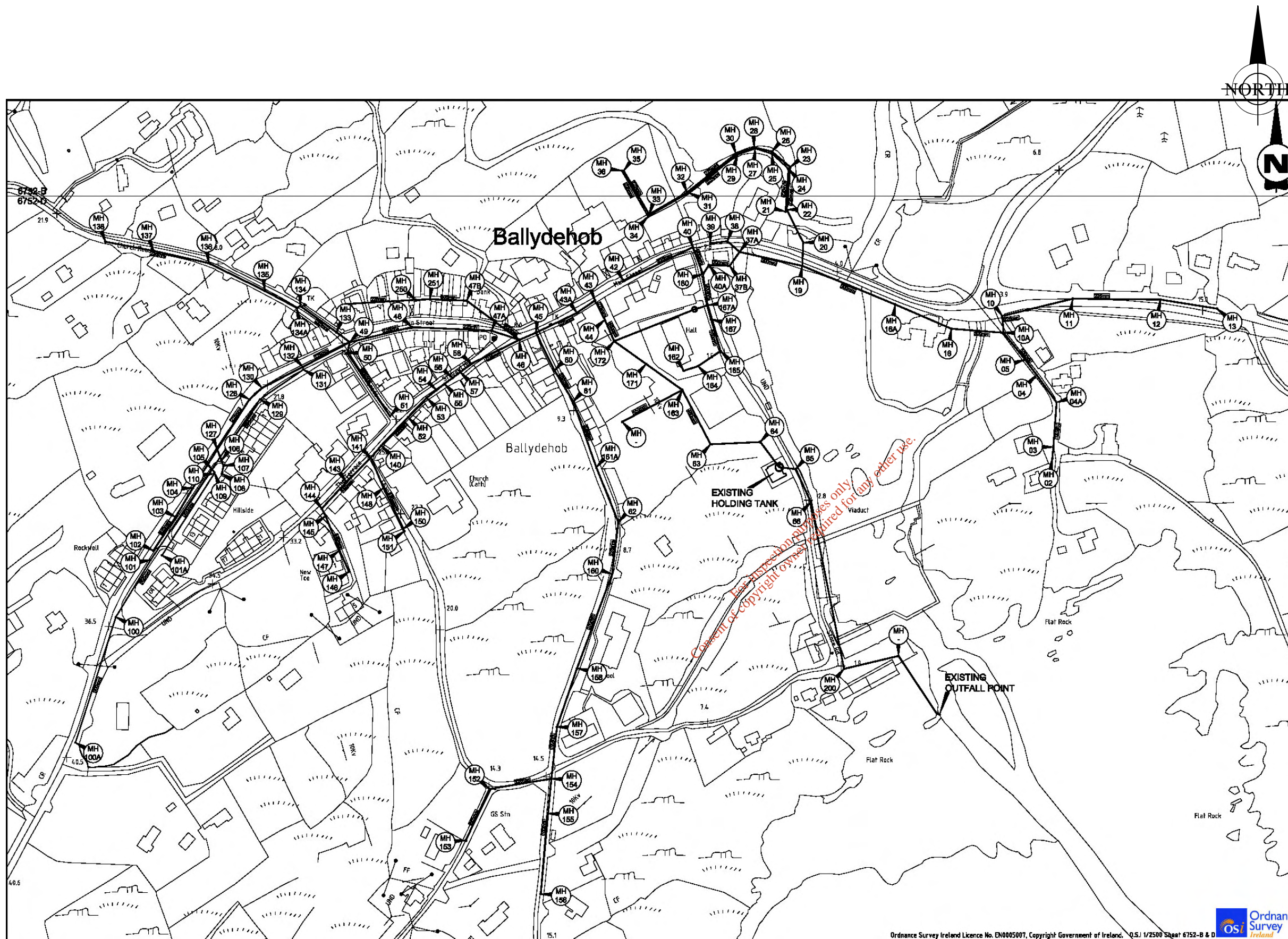
N.O'MAHONY, B.E.,
SENIOR ENGR. (WATER SERVICES),
COURTHOUSE, SKIBBEREEN.

M. MURRELL,
DIRECTOR OF SERVICES
WEST CORK

Job Title:
**WASTE WATER DISCHARGE
LICENCE APPLICATION
BALLYDEHOB AGGLOMERATION**

Drawing Title:
**ATTACHMENT C1.01
PROPOSED WWTP LAYOUT**

Prepared By: A.O'BRIEN	Checked By: D.GROARKE	Date: JUN.2009
Drawing number: BALL_C1-01	Scales: 1:2000	Rev: -



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No.	Date	Drawn	Chkd	Revision Description

Cork County Council, Western Division.



N. O'MAHONY, B.E.,
SEN. ENGR. (WATER SERVICES),
COURTHOUSE, SKIBBEREEN.

M. MURRELL,
DIRECTOR OF SERVICES
WEST CORK

Job Title:
**WASTE WATER DISCHARGE
LICENCE APPLICATION
BALLYDEHOB AGGLOMERATION**

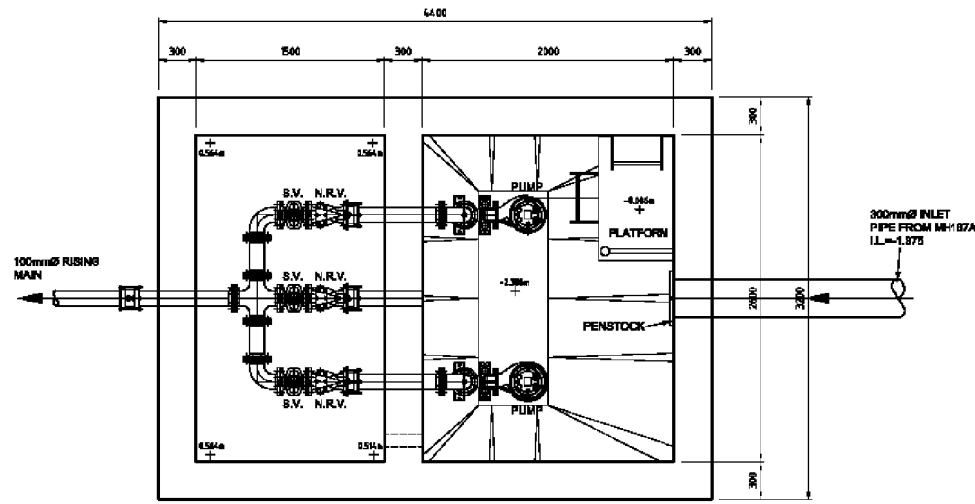
Drawing Title:
**ATTACHMENT C1.02
LAYOUT PLAN SHOWING
EXISTING SEWERS**

Prepared By: A. O'BRIEN	Checked By: D. GROARKE	Date: JUN. 2009
Drawing number: BALL_C1-02	Scales: N.T.S.	Rev: -

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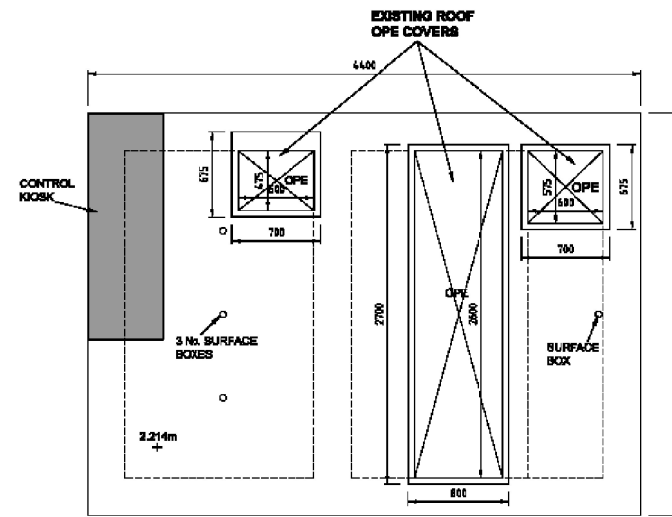
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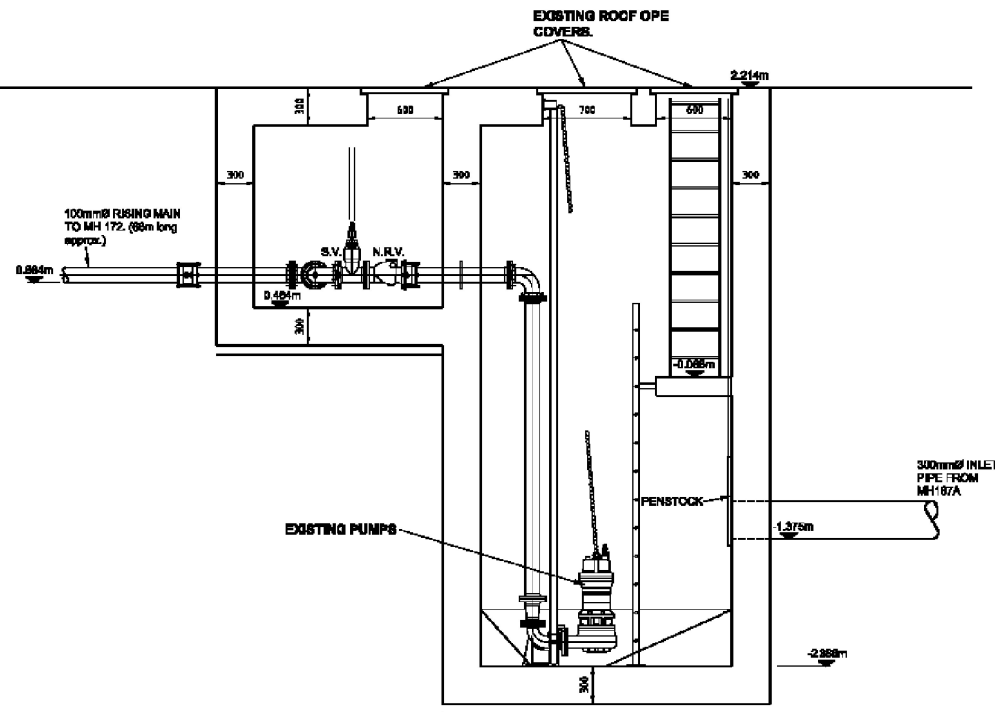
FLOOR PLAN

scale 1:25



ROOF PLAN

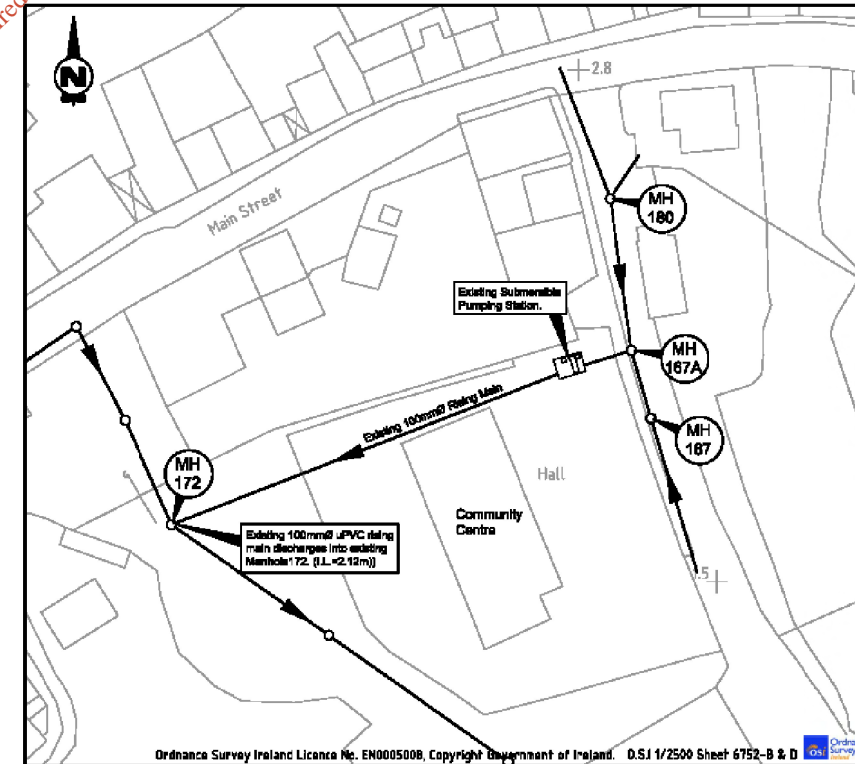
scale 1:25



SECTIONAL ELEVATION A-A

scale 1:25

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1:500 SITE LAYOUT PLAN

No.	Date	Drwn	Chkd	Revision Description

Cork County Council, Western Division.

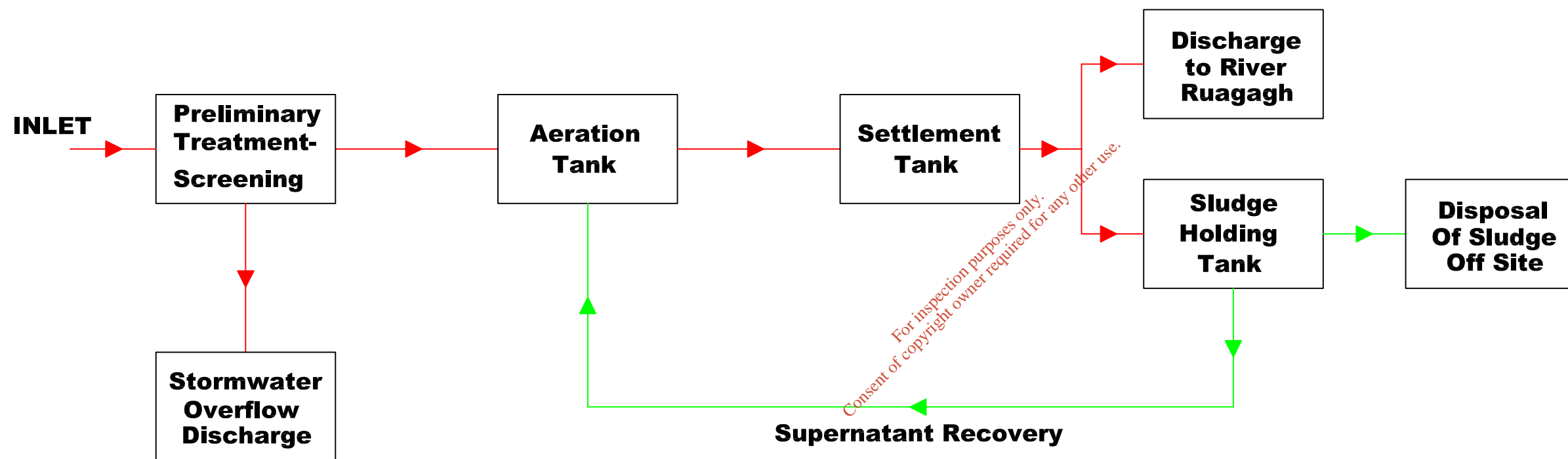


N.O'MAHONY, B.E.,
SENR. ENGR. (WATER SERVICES),
COURTHOUSE, SKIBBEREEN.
M. MURRELL,
DIRECTOR OF SERVICES
WEST CORK

Job Title:
**WASTE WATER DISCHARGE
LICENCE APPLICATION
BALLYDEHOB AGGLOMERATION**

Drawing Title:
**ATTACHMENT C1.03
EXISTING PUMP STATION**

Prepared By: A.O'BRIEN	Checked By: D.GROARKE	Date: JUN.2009
Drawing number: BALL_C1-03	Scales: N.T.S.	Rev: -




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No.	Date	Drawn	Chkd	Revision Description

**Cork County Council,
Western Division.**



CORK COUNTY COUNCIL
1899

N.O'MAHONY, B.E.,
SENR. ENGR. (WATER SERVICES),
COURTHOUSE, SKIBBEREEN.

M. MURRELL,
DIRECTOR OF SERVICES
WEST CORK

Job Title:
**WASTE WATER DISCHARGE
LICENCE APPLICATION
BALLYDEHOB AGGLOMERATION**

Drawing Title:
**ATTACHMENT C1.04
Proposed WWTP Process Flow
Diagram**

Prepared By: A.O'BRIEN	Checked By: D.GROARKE	Date: JUN.2009
Drawing number: BALL_C1-04	Scales: N.T.S.	Rev: -

Attachment E.2

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Attachment E.2

- Monitoring Programme

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Attachment E.2 - Ballydehob Waste Water Discharge Licence Application **- Monitoring and Sampling Points**

Grab samples have been collected recently of the effluent from the primary discharge and the results are included in Attachments E.4 and F.1 of this application.

Please note that no downstream monitoring was carried out due to inaccessible nature of the location.

There is no drinking water abstraction point downstream of the plant and therefore the Abstraction Directive is not applicable. Neither is there Shellfish Waters in the Harbour.

The recent sample analysis has been carried out by the Laboratory of Cork County Council which is accredited for a number of analytical tests under the Irish National Accreditation Board (INAB) under the ISO 17025 international standard. It is currently accredited for the following parameters under that standard system:

- pH
- Biochemical Oxygen Demand
- Chemical Oxygen Demand
- Suspended Solids
- Ammonia
- Ortho Phosphate
- Total Phosphate
- Chloride
- Sulphate

It is proposed to sample the influent and effluent from septic tanks where accessible and receiving waters once a year in the future for the following parameters at the Cork County Council Laboratory in Skibbereen:

- pH
- Biochemical Oxygen Demand
- Chemical Oxygen Demand
- Suspended Solids
- Ammonia
- Ortho Phosphate
- Total Nitrogen

When the proposed WWTP for Ballydehob is constructed it will be operated under a Design, Build & Operate contract. A comprehensive monitoring and sampling programme will be undertaken by the contractor in accordance with the relevant standards and frequencies as set out by Cork County Council.

Attachment E.4

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Attachment E.4

- Sampling Data

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Attachment E4 Ballydehob Inlet Table E4			
Sample Date	28/01/2009	12/02/2009	
Sample	Influent	Influent	Average
Sample Code	GT132	GT173	
Flow M ³ /Day	*	*	
pH	7.3	*	7.3
Temperature °C	*	*	
Cond 20°C	330	*	330
SS mg/L	30	*	30
NH ₃ mg/L	2.8	*	2.8
BOD mg/L	61	*	61
COD mg/L	133	*	133
TN mg/L	3.5	*	3.5
Nitrite mg/L	0.124	*	0.124
Nitrate mg/L	2.85	*	2.85
TP mg/L	2.6	*	2.6
O-PO4-P mg/L	0.1	*	0.1
SO4 mg/L	<30	*	<30
Phenols µg/L	<0.10	*	<0.10
Atrazine µg/L	<0.01	*	<0.01
Dichloromethane µg/L	<1	*	<1
Simazine µg/L	<0.01	*	<0.01
Toluene µg/L	<1	*	<1
Tributyltin µg/L	<0.02	*	<0.02
Xylenes µg/L	<1	*	<1
Arsenic µg/L	<0.96	*	<0.96
Chromium ug/L	<20	<20	<20
Copper ug/L	<20	<20	<20
Cyanide µg/L	5	*	5
Fluoride µg/L	165	*	165
Lead ug/L	<20	<20	<20
Nickel ug/L	<20	<20	<20
Zinc ug/L	<20	<20	<20
Boron ug/L	37.19	49	43.095
Cadmium ug/L	<20	<20	<20
Mercury µg/L	<0.2	*	<0.2
Selenium µg/L	2.6	*	2.6
Barium ug/L	<20	<20	<20
	HALF OF LOD FOR STATISTICAL PURPOSE		

Attachment E4 Ballydehob Discharge Outlet Table E4

Sample Date	03/09/2008	24/09/2008	18/12/2008	28/01/2009	12/02/2009	12/03/2009			
Sample	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Average	Kg/Day	Kg/year
Sample Code	GS840	GS970	GS1396	GT131	GT170	GT336			
Flow M ³ /Day	*	*	*	*	*	*			
pH	*	*	*	7.3	*	7.2	7.25		
Temperature °C	*	*	*	*	*	*			
Cond 20°C	*	*	*	539	*	*	539		
SS mg/L	*	41	29	13	19	12	22.8		
NH ₃ mg/L	*	*	*	4.9	*	*	4.9		
BOD mg/L	*	105	27.8	18	31	56	47.56		
COD mg/L	*	207	59	44	70	63	88.6		
TN mg/L	*	*	*	7.6	8.9	10	8.833333		
Nitrite mg/L	*	*	*	0.081	*	*	0.081		
Nitrate mg/L	*	*	*	2.63	*	*	2.63		
TP mg/L	*	*	*	2.7	0.7	0.7	1.366667		
O-PO4-P mg/L	*	*	*	no result	*	*	no result		
SO ₄ mg/L	*	*	*	<30	*	*	<30		
Phenols µg/L	*	*	*	<0.10	*	*	<0.10		
Atrazine µg/L	*	*	*	<0.01	*	*	<0.01		
Dichloromethane	*	*	*	<1	*	*	<1		
Simazine µg/L	*	*	*	<0.01	*	*			
Toluene µg/L	*	*	*	<1	*	*	<1		
Tributyltin µg/L	*	*	*	<0.02	*	*	<0.02		
Xylenes µg/L	*	*	*	<1	*	*	<1		
Arsenic µg/L	*	*	*	<0.96	*	*	<0.96		
Chromium ug/L	<20	*	<20	<20	<20	<20	<20		
Copper ug/L	<20	*	<20	<20	<20	<20	<20		
Cyanide µg/L	*	*	*	6	*	*	6		
Fluoride µg/L	*	*	*	150	*	*	150		
Lead ug/L	<20	*	<20	<20	<20	<20	<20		
Nickel ug/L	<20	*	<20	<20	<20	<20	<20		
Zinc ug/L	<20	*	<20	<20	<20	<20	<20		
Boron ug/L	229	*	10	10	175	118.4	108.48		
Cadmium ug/L	<20	*	<20	<20	<20	<20	<20		
Mercury µg/L	*	*	*	<0.2	*	*	<0.2		
Selenium µg/L	*	*	*	4.7	*	*	4.7		
Barium ug/L	31	*	31	10	10	10	18.4		
	HALF OF LOD FOR STATISTICAL PURPOSE								

Attachment E4 Ballydehob Upstream Table E4

Sample Date	28/01/2009	12/02/2009	12/03/2009	
Sample	River	River	River	Average
Sample Code	GT130	GT171	GT335	
Flow M ³ /Day	*	*	*	
pH	7.1	*	*	7.1
Temperature °C	*	*	*	
Cond 20°C	161	*	*	161
SS mg/L	<2.5	*	*	<2.5
NH ₃ mg/L	<0.1	*	*	<0.1
BOD mg/L	<1	*	*	<1
COD mg/L	<21	*	*	<21
TN mg/L	1.2	*	*	1.2
Nitrite mg/L	<0.004	*	*	<0.004
Nitrate mg/L	1.08	*	*	1.08
TP mg/L	<0.20	*	*	<0.20
O-PO ₄ -P mg/L	<0.05	<0.05	<0.05	<0.05
SO ₄ mg/L	<30	*	*	<30
Phenols µg/L	<0.10	*	*	<0.10
Atrazine µg/L	<0.01	*	*	<0.01
Dichloromethane	<1	*	*	<1
Simazine µg/L	<0.01	*	*	<0.01
Toluene µg/L	<1	*	*	<1
Tributyltin µg/L	not required	*	*	not required
Xylenes µg/L	<1	*	*	<1
Arsenic µg/L	<0.96	*	*	<0.96
Chromium ug/L	<20	<20	50.11	50.11
Copper ug/L	<20	<20	<20	<20
Cyanide µg/L	<5	*	*	<5
Fluoride µg/L	45	*	*	45
Lead ug/L	<20	<20	<20	<20
Nickel ug/L	<20	<20	<20	<20
Zinc ug/L	<20	<20	<20	<20
Boron ug/L	10	208	583.6	267.2
Cadmium ug/L	<20	<20	<20	<20
Mercury µg/L	<0.2	*	*	<0.2
Selenium µg/L	1.3	*	*	1.3
Barium ug/L	60	10	10	26.66666667
	HALF OF LOD FOR STATISTICAL PURPOSE			

Attachment E4 Ballydehob Upstream (ii) Table E4				
Sample Date	28/01/2009	12/02/2009	12/03/2009	
Sample	River	River	River	Average
Sample Code	GT133	GT172	GT337	
Flow M ³ /Day	*	*	*	
pH	7.2	*	*	7.2
Temperature °C	*	*	*	
Cond 20 °C	2040	*	*	2040
SS mg/L	<2.5	*	*	<2.5
NH ₃ mg/L	<0.1	*	*	<0.1
BOD mg/L	<1	*	*	<1
COD mg/L	<21	*	*	<21
TN mg/L	1.2	*	*	1.2
Nitrite mg/L	*	*	*	saline interference
Nitrate mg/L	*	*	*	saline interference
TP mg/L	<0.20	*	*	<0.20
O-PO4-P mg/L	<0.05	<0.05	<0.05	<0.05
SO4 mg/L	92.5	*	*	92.5
Phenols µg/L	<0.10	*	*	<0.10
Atrazine µg/L	<0.01	*	*	<0.01
Dichloromethane	<1	*	*	<1
Simazine µg/L	<0.01	*	*	<0.01
Toluene µg/L	<1	*	*	<1
Tributyltin µg/L	<0.02	*	*	<0.02
Xylenes µg/L	<1	*	*	<1
Arsenic µg/L	<0.96	*	*	<0.96
Chromium ug/L	<20	<20	<20	<20
Copper ug/L	<20	<20	<20	<20
Cyanide µg/L	<5	*	*	<5
Fluoride µg/L	58	*	*	58
Lead ug/L	<20	<20	<20	<20
Nickel ug/L	<20	<20	<20	<20
Zinc ug/L	<20	<20	<20	<20
Boron ug/L	129	638	46.83	271.277
Cadmium ug/L	<20	<20	<20	<20
Mercury µg/L	<0.2	*	*	<0.2
Selenium µg/L	24.2	*	*	24.2
Barium ug/L	32	10	10	17.333
	HALF OF LOD FOR STATISTICAL PURPOSE			