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Administration,
Environmental Licensing Programme,
Office of Climate, Licensing & Resource Use,
Environmental Protection Agency,
Headquarters,
PO Box 3000,
Johnstown Castle Estate,
County Wexford

17th June 2010

**Re: D0468-01 – Castletownshend Waste Water Discharge Licence Application –
Reply to Notice in accordance with Regulation 18(3)(b) of the Waste Water
Discharge (Authorisation) Regulations 2007**

Dear Mr. Clabby,

I refer to your letter of the 20th April 2010 concerning the above. The following is our reply to your request for further information in accordance with Regulation 18(3)(b) dealing in sequence with the points raised:

1. Section B.10 – Capital Investment Programme

The Department of Environment, Heritage & Local Government funding for the Castletownshend Sewerage Scheme has been withdrawn. The scheme will be included in Cork County Council's Assessment of Needs for 2013-2015.

2. Section B.12 – Foreshore Licence

The foreshore licence for the proposed work is not yet applied for. The Department of Environment, Heritage & Local Government funding for the Castletownshend Sewerage Scheme has been withdrawn. The scheme will be included in Cork County Council's Assessment of Needs for 2013-2015.

3. Monitoring of Primary Discharge

The wastewater discharging at the primary discharge point in Castletownshend does not receive any treatment. The UWWT Regulations does not specify a monitoring programme for this type of discharge and therefore there are no updated monitoring results available. Please see revised table E4 attached for the most up to date results.

4. Monitoring of Receiving Waters

There is no monitoring regime for sampling coastal waters in the Surface Water Regulations and therefore there are no updated monitoring results available. Please see revised table E4 attached for the most up to date results.

5. Environmental Quality Objectives Regulations (S.I. No. 272 of 2009)

This application was lodged with the EPA in June 2009 and this regulation did not come into effect until July 2009.

According to the SWRBD Rosscarbery Bay into which the agglomeration discharges has an "unassigned status" and the risk assessment overall value of 2a "probably not at risk". The table in attachment F identifies the Criteria for calculating surface water ecological status and ecological potential and compares the results of the ambient water sample taken in the receiving waters.

6. Assessment of Effects of the Waste Water Discharges

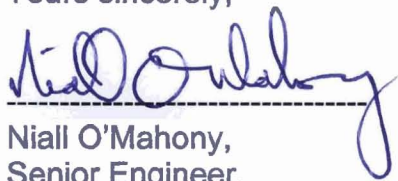
With reference to Circular L8/08 and the flow diagram in Appendix 1, it can be concluded that the wastewater discharging from the agglomeration will not have significant effects on any relevant European sites in the vicinity. The agglomeration is discharging to a well exchanged body of water with unlimited dilution capacity. The scheme or discharges are not located within a designated area and the existing or proposed development does not require an EIA.

The Natura 2000 sites in the area are Castletownsend SAC (Site Code 1547) which is approximately 0.5km away from the discharge point and is designated for the Fern "*Trichomanes speciosum*". The second site is Sheep's Head to Toe Head SPA (Site Code 4156) and is over 5km from the discharge point and is designated for the Peregrine and Chough birds.

List of Attachments

Attachment F
Table E4

Yours sincerely,



Niall O'Mahony,
Senior Engineer,
Cork County Council

Enclosures

Tables

- Revised Table E4

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Attachment E4 (Revised) Castletownsend D0468-01

Attachment E4 Castletownsend Discharge Outlet pipe			
Sample Date	28/05/2009		28/05/2009
Sample	Boat Slip		Flemings pipe
Sample Code	GT772		GT775
Flow M ³ /Day	*		*
pH	7.5		7.3
Temperature °C	*		*
Cond 20°C	332		858
SS mg/L	15		37
NH ₃ mg/L	1.2		61.3
BOD mg/L	7		47
COD mg/L	38		139
TN mg/L	5.08		91.9
Nitrite mg/L	0.249		<0.10
Nitrate mg/L	1.771		<0.50
TP mg/L	0.48		9.11
O-PO4-P mg/L	0.12		8.18
SO4 mg/L	<30		48.5
Phenols µg/L	<0.10		<0.10
Atrazine µg/L	<0.01		<0.01
Dichloromethane	<1		
Simazine µg/L	<0.01		<0.01
Toluene µg/L	<0.28		18.591
Tributyltin µg/L	<0.02		*
Xylenes µg/L	<1		<1
Arsenic µg/L	1.3		<0.96
Chromium ug/L	<20		<20
Copper ug/L	<20		<20
Cyanide µg/L	7		<5
Fluoride µg/L	108		521
Lead ug/L	<20		<20
Nickel ug/L	<20		<20
Zinc ug/L	<20		47.8
Boron ug/L	78.5		49.9
Cadmium ug/L	<20		<20
Mercury µg/L	<0.2		0.2
Selenium µg/L	13.5		4.3
Barium ug/L	<20		<20

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Attachment E4 (Revised) Castletownsend D0468-01

Attachment E4 Castletownsend Ambient Receiving waters			
Sample Date	28/05/2009	comments	28/05/2009
Sample	River		River
Sample Code	GT776		GT776
Flow M ³ /Day	*		
pH	8.2		
Temperature °C	*		
Cond 20°C	45700		
SS mg/L	26		
NH ₃ mg/L	0.5"	saline interference	
BOD mg/L	1		
COD mg/L	24		
TN mg/L	0.28		
Nitrite mg/L	<0.10		
Nitrate mg/L	<0.50		
TP mg/L	0.079		
O-PO4-P mg/L	<0.05		
SO4 mg/L	no result	saline interference in test	
Phenols µg/L	<0.10		
Atrazine µg/L	<0.01		
Dichloromethane	<1		
Simazine µg/L	<0.01		
Toluene µg/L	<0.28		
Tributyltin µg/L	<0.02		
Xylenes µg/L	<1		
Arsenic µg/L	2.7		
Chromium ug/L	<20	saline interference in test	<1
Copper ug/L	<20		4.46
Cyanide µg/L	<5		
Fluoride µg/L	796	saline interference in test	
Lead ug/L	<20	saline interference in test	16.39
Nickel ug/L	<20		1.95
Zinc ug/L	<20		1.896
Boron ug/L	2320		2320
Cadmium ug/L	<20		<1
Mercury µg/L	<0.2		
Selenium µg/L	33.3	saline interference in test	
Barium ug/L	<20		11.6

Note actual result on analysis data sheet as result is below LOD of 20ug/l results of 0 recorded as <1

Attachment F

- Ambient Coastal Water Quality v's EQR/S.

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Application D0468-01 Castletownsend

Ambient Coastal Water Quality

<i>Physico-chemical conditions</i>	<i>Ecological quality ratio/standard</i>	<i>2009 ambient sampling results</i>
	<i>Good boundary</i>	
	<i>Coastal (All Types)</i>	
<i>Oxygenation conditions Table 9</i>	<i>Coastal water body</i>	<i>Ambient sampling results</i>
Biochemical Oxygen Demand (BOD) (mgO ₂ /l)	No Limit	-
<i>Acidification Status Table 9</i>	<i>Coastal Water Body</i>	<i>Ambient sampling results</i>
pH (individual values)	No Limit	-
<i>Nutrient conditions Table 9</i>	<i>Coastal Water body</i>	<i>Ambient sampling results</i>
Total Ammonia (mg N/l)	No Limit	-
Molybdate Reactive Phosphorus (MRP) (mg P/l)	No Limit	-
<i>Specific pollutants Table 10</i>	<i>Other surface waters AA-EQS</i>	<i>Ambient sampling results</i>
Phenol	46	<0.1µg/L
Toulene	No Limit	-
Xylene	No Limit	-
Arsenic	No Limit	-
Total Chromium	32	<1µg/L
Copper (depending on water hardness)	No Limit	-
Cyanide	No Limit	-
Flouride	No Limit	-
Zinc (depending on water hardness)	No Limit	-
<i>Priority Substances Table 11</i>	<i>Other surface waters AA-EQS</i>	<i>Ambient sampling results</i>
Atrazine	0.6	<0.01µg/L
Dichloromethane	20	<1.0µg/L
Simazine	1	<0.01µg/L
Lead and its compounds	7.2	16.39µg/L
Nickel and its compounds	20	1.95µg/L
<i>Priority Hazardous Substances Table 12</i>	<i>Other surface waters AA-EQS</i>	<i>Ambient sampling results</i>
Cadmium and its compounds (depending on water hardness)	0.2	<1.0µg/L
Mercury and its compounds	0.05	<0.2µg/L

Note the following:

The black results are within the EQR/S.

The blue results may break the EQR/S.

The red results break the EQR/S.

The results highlighted grey are at the limit of detection.