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Cork County Council

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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: D0297-01 – Castletownbere 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.6 – Planning requirements for Proposed Works
Planning permission for the proposed work is not yet applied for. The Preliminary Report is due to be issued to Cork County Council within the next month. The scheme is expected to proceed though the WSIP Planning phase by 2012.

2. Section B.10 – Capital Investment Programme
Castletownbere Sewerage Scheme has been included in the WSIP 2010-2012 under the Schemes at Planning Stage. The scheme will be included in Cork County Council's Assessment of Needs for 2013-2015 to proceed to construction.

3. Section B.12 – Foreshore Licence
The foreshore licence for the proposed work is not yet applied for. The Preliminary Report is due to be issued to Cork County Council within the next month. The scheme is expected to proceed though the WSIP Planning phase by 2012.

4. Preliminary Report & Parts (g) & (k) of Regulation 16
The Preliminary Report is due to be issued by our Consulting Engineer to Cork County Council within the next three month therefore these issues can not be address until the report is to hand.

5. 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 sites or discharges are not located within a designated area.

The Natura 2000 sites in the area are Sheep's Head SAC (Site Code 102) & SPA (Site Code 4156) which are over 10km away from the discharge points and are designated for the slug "*Geomalacus maculosus*" and Chough & Peregrine Birds respectfully. The second site is Beara peninsula SPA (Site Code 4155) and is over 3km from the discharge points and is designated for the Chough & Fulmar Birds.

6. Environmental Quality Objectives Regulations (S.I. No. 272 of 2009)
This application was lodged with the EPA in February 2009 and this regulation did not come into effect until July 2009.

According to the SWRBD Berehaven into which the agglomeration discharges has a "high status" and the risk assessment overall value of 2b "not at significant 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.

7. Labelling of Discharge Points
Please see revised section B4 and C2 of the application form attached for correct identification of groundwater discharge labels.

Revised Sections of Application Form:

Section B4
Section C2

List of Attachments

Attachment F
Table E4

Yours sincerely,

Niall O'Mahony,
Senior Engineer,
Cork County Council

Enclosures

Application Form

- Section B4
- Section C2

SECTION B: GENERAL

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.

Type of Discharge	Outfall Pipe
Unique Point Code	SW02 CAST
Location	Castletownbere Harbour
Grid ref (6E, 6N)	E:68344 N:46342

Type of Discharge	Outfall Pipe
Unique Point Code	SW03 CAST
Location	Castletownbere Harbour
Grid ref (6E, 6N)	E:68614 N:46024

Type of Discharge	Outfall Pipe
Unique Point Code	SW04 CAST
Location	Castletownbere Harbour
Grid ref (6E, 6N)	E:67654 N:45745

Type of Discharge	Outfall Pipe
Unique Point Code	GW05 CAST
Location	Ground
Grid ref (6E, 6N)	E:67462 N:45370

Type of Discharge	Outfall Pipe
Unique Point Code	GW06 CAST
Location	Ground
Grid ref (6E, 6N)	E:67997 N:46481

Attachment B.4 should contain appropriately scaled drawings / maps (≤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.

Attachment included	**Yes**	**No**
	√	

SECTION C: INFRASTRUCTURE & OPERATION

C.2 Outfall Design and Construction

Provide details on the primary discharge point & secondary discharge points and storm overflows to include reference, location, design criteria and construction detail.

Table C.2.1: Details of Existing Discharging Outfalls

Discharge	Reference	Location	Design Criteria	Construction Details
Primary	SW01 Cast	E:68028, N:46138	350mm Discharge pipe	Discharge below high water level
Secondary	SW02 Cast	E:68344, N:46342	Discharge pipe	Discharge below high water level
Secondary	SW03 Cast	E:68614, N:46024	Discharge pipe	Discharge below high water level
Secondary	SW04 Cast	E:67654, N:45745	Discharge pipe	Discharge below high water level
Secondary	GW05 Cast	E:67462, N:45370	Discharge pipe	Discharge to soakpit
Secondary	GW06 Cast	E:67997, N:46481	Discharge pipe	Discharge to soakpit

Attachment C.2 should contain any supporting documentation on the design and construction of any and all discharge outfalls, including stormwater overflows, from the waste water works.

Attachment included	**Yes**	**No**
		√

Tables

- Revised Table E4

D0297-01 Revised Attachment E4 Castletownbere Table E4

Sample Date	30/10/2008	10/12/2008		30/10/2008	10/12/2008		30/10/2008	30/10/2008	30/10/2008	30/10/2008	10/12/2008		30/10/2008
Sample	Effluent	Effluent	**Average**	Effluent	Effluent	**Average**	Effluent	Effluent	Effluent	Effluent	Effluent	**Average**	Ambient Receiving Water
Source	**No 1**	**No 1**		**No 2**	**No 2**		**No 3**	**No 4**	**No 5**	**No 6**	**No 6**		**No 7**
Sample Code	GS1185	GS1360		GS1186	GS1361		GS1187	GS1188	GS1189	GS1190	GS1359		GS1191
Flow M^3/Day	*	*	*	*	*	*	*	*	*	*	*	*	*
pH	7.8	*	7.8	6.8	*	6.8	6.9	7	8.3	6.7	*	6.7	8.2
Temperature ℃	*	*	*	*	*	*	*	*	*	*	*	*	*
Cond 20℃	395	*	395	256	*	256	357	337	912	2200	*	2200	4730
SS mg/L	86	*	86	54	*	54	129	54	95	287	*	287	115
NH_3 mg/L	2.6	*	2.6	6.7	*	6.7	1.5	20.3	49.3	124.1	*	124.1	0.6
BOD mg/L	92.4	*	92.4	44.1	*	44.1	124.8	83.6	208.4	1887	*	1887	5.23
COD mg/L	239	*	239	121	*	121	262	251	502	2537	*	2537	24
TN mg/L	12	*	12	<1	*	<1	54	24	49	123	*	123	<1.0
Nitrite mg/L	0.399	*	0.399	0.052	*	0.052	0.433	0.047	0.007	0.007	*	0.007	0.029
Nitrate mg/L	1.09	*	1.09	1.45	*	1.45	1.11	<0.405	<0.405	<0.405	*	<0.405	<0.405
TP mg/L	2.5	*	2.5	0.3	*	0.3	1.5	3.8	9.9	10.3	*	10.3	0.3
O-PO4-P mg/L	0.58	*	0.58	0.67	*	0.67	0.29	2.66	8.14	88.85	*	88.85	<0.05
SO4 mg/L	<30	*	<30	<30.0	*	<30.0	<30.0	*	82.2	427	*	427	2565.4
Phenols ug/L	8	<0.10	4.025	20	<0.10	10.025	120	700	300	5500*	<0.10	<0.10	<5
Atrazine µg/L	<0.01	5.03	2.54	<0.01	<0.01	<0.01	<0.01	<0	<0.02	<0.05	<0.01	0.015	<0.01
Dichloromethane	26.7	<1	13.38	9.6	<1	4.825	<5.0	<0.02	<5.0	<5.0	<1	3	<5.0
Simazine µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.05	<0.01	15	<0.01
Toluene µg/L	<0.1	22.041	11.05	<0.1	2.172	1.111	<0.1	<0.1	<0.1	<0.1	3.419	1.735	<0.1
Tributyltin µg/L	<0.02	*	<0.02	<0.02	*	<0.02	<0.02	<0.02	<0.02	<0.02	*	<0.02	<0.02
Xylenes µg/L	<0.2	<1	<0.6	<0.2	<1	0.3	<0.2	<0.2	<0.2	<0.2	<1	0.3	<0.2
Arsenic µg/L	1	2.1	1.55	0.5	<0.96	0.49	<0.2	0.8	2.5	39.5	184.4	111.95	<0.2
Chromium µg/L	<20	*	<20	<20	*	<20	<20	<20	<20	<20	*	<20	67
Copper µg/L	<20	*	<20	<20	*	<20	<20	<20	27	35	*	35	<1
Cyanide µg/L	16	<5	9.25	47	7	27	7	24	31	77	40	58.5	<5.0
Fluoride µg/L	310	*	310	70	*	70	170	290	300	740	*	740	360
Lead µg/L	<20	*	<20	<20	*	<20	<20	<20	<20	<20	*	<20	12
Nickel µg/L	<20	*	<20	<20	*	<20	<20	<20	<20	<20	*	<20	3.7
Zinc µg/L	115	*	115	25	*	25	31	56	57	613	*	613	<1
Boron µg/L	<20	*	<20	<20	*	<20	<20	35	68	615	*	615	3234.3
Cadmium µg/L	<20	*	<20	<20	*	<20	<20	<20	<20	<20	*	<20	<1
Mercury µg/L	<0.02	<0.2	<0.02	<0.02	<0.2	<0.02	<0.02	<0.02	<0.02	5.05	0.2	2.625	0.03
Selenium µg/L	1.2	7.3	4.25	0.7	2.6	1.65	0.5	<0.2	1.1	5.1	671.3	338.2	32.3
Barium µg/L	26	*	26	38	*	38	<20	36	<20	132	*	132	28

Location No 1	Sump at hospital Car park
Location No 2	Brandyhall Bridge
Location No 3	Main Street
Location No 4	reference to map
Location No 5	reference to map
Location No 6	Dinish Island Outfall
Location No 7	Bere Island side of Dinish Island

* Matrix interference from Suspended solids in test

values recorded as 1/2 the LOD for statistical purposes in average column

saline interference

below Lod -actual result reported for comaprison purposes

Attachment F

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

Application D0297-01 Castletownbere

Ambient Coastal Water Quality

Physico-chemical conditions	***Ecological quality ratio/standard***	***2008 ambient sampling results***
	Good boundary	
	Coastal (All Types)	
Oxygenation conditions Table 9	***Coastal water body***	***Ambient sampling results***
Biochemical Oxygen Demand (BOD) (mgO_2/l)	No Limit	-
Acidification Status Table 9	***Coastal Water Body***	***Ambient sampling results***
pH (individual values)	No Limit	-
Nutrient conditions Table 9	***Coastal Water body***	***Ambient sampling results***
Total Ammonia (mg N/l)	No Limit	-
Molybdate Reactive Phosphorus (MRP) (mg P/l)	No Limit	-
Specific pollutants Table 10	***Other surface waters AA-EQS***	***Ambient sampling results***
Phenol	46	<5µg/L
Toulene	No Limit	-
Xylene	No Limit	-
Arsenic	No Limit	-
Total Chromium	32	67µg/L
Copper (depending on water hardness)	No Limit	-
Cyanide	No Limit	-
Flouride	No Limit	-
Zinc (depending on water hardness)	No Limit	-
Priority Substances Table 11	***Other surface waters AA-EQS***	***Ambient sampling results***
Atrazine	0.6	<0.01µg/L
Dichloromethane	20	<5µg/L
Simazine	1	<0.01µg/L
Lead and its compounds	7.2	12µg/L
Nickel and its compounds	20	3.7µg/L
Priority Hazardous Substances Table 12	***Other surface waters AA-EQS***	***Ambient sampling results***
Cadmium and its compounds (depending on water hardness)	0.2	<1.0µg/L
Mercury and its compounds	0.05	0.03µg/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.