



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: D0471-01 – Glengarriff 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 23rd April 2010 concerning the above. The following is my 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. Glengarriff Sewerage Scheme has not been included in the WSIP 2010-2012. The scheme will be included in Cork County Council's Assessment of Needs for 2013-2015.

2. Section B.10 – Capital Investment Programme

Glengarriff Sewerage Scheme has not been included in the WSIP 2010-2012. The scheme will be included in Cork County Council's Assessment of Needs for 2013-2015.

3. Section B.12 – Foreshore Licence

The foreshore licence for the proposed work is not yet applied for. Glengarriff Sewerage Scheme has not been included in the WSIP 2010-2012. The scheme will be included in Cork County Council's Assessment of Needs for 2013-2015.

4. Preliminary Report & Parts (g) & (k) of Regulation 16

The Preliminary Report is due to be issued by our Consulting Engineers to Cork County Council within the next month therefore these issues can not be addressed until the report is to hand.

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 Glengarriff Harbour into which the agglomeration discharges to has an "unassigned status" and the risk assessment overall value of 2a "probable 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.

Table E4 has been revised and updated to include the most recent results available.

6. Storm Water Overflow & Combined Sewer Network

The storm water overflow mentioned in section C of the application form is in fact an emergency overflow from the septic tank and is not designed as a stormwater overflow in accordance with Formula A. Please see revised Section C of the application form attached.

With regard to the extent on combined sewers within the network, further information will be available within the next three months when the Preliminary report has been issued.

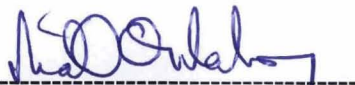
Revised Sections of Application Form

Section C

List of Attachments

Table E4
Attachment F

Yours sincerely,



Niall O'Mahony,
Senior Engineer,
Cork County Council

Enclosures

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Application Form

- Section C

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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.

Discharge Points in Glengarriff Sewage Scheme

Discharge	Reference	Location	Design Criteria	Construction Details
Primary	SW01 Glen	093358E, 056263N	9" Cast Iron pipe encased in concrete	Discharge pipe to Glengarriff Harbour below LWL

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

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Tables

- Revised Table E4

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Attachment E4 (Revised) Glengarriff Application Register Number D0471-01

Revised Attachment E4 Influent			Revised Attachment E4 Discharge					Revised Attachment E4 Ambient				
Sample Date	14/05/2009		Sample Date	30/10/2008	13/11/2008	14/05/2009	16/09/2009	14/05/2009		14/05/2009		
Sample	Influent	Average	Sample	Effluent	Effluent	Effluent	Effluent	Average	Ambient Coastal waters	Comments	Average	Ambient Coastal waters below LOD
Sample Code	GT660		Sample Code	GS1184	GS1201	GT661	GT1163		GT662			GT662
Flow M ³ /Day	*		Flow M ³ /Day	*	*	*	*	*	*			
pH	7.2	7.2	pH	*	*	7.0	7.2	7.1	8.1		8.1	
Temperature °C	*	*	Temperature °C	*	*	*	*	*	*		*	
Cond 20 °C	376	376	Cond 20 °C	*	*	520	552	536	33100		33100	
SS mg/L	188	188	SS mg/L	60	12	51	131	63.5	6		6	
NH ₃ mg/L	19.1	19.1	NH ₃ mg/L	*	*	29.7	*	29.7	0.4"	" saline interference	0.4"	
BOD mg/L	116	116	BOD mg/L	214	14	144	149	130.25	2		2	
COD mg/L	419	419	COD mg/L	427	80	329	454	322.5	21		21	
TN mg/L	37.1	37.1	TN mg/L	*	*	51	53.01	52.005	0.67		0.67	
Nitrite mg/L	<0.10	<0.10	Nitrite mg/L	*	*	<0.10	no result	<0.10	<0.10		<0.10	
Nitrate mg/L	<0.50	<0.50	Nitrate mg/L	*	*	<0.50	<0.50	<0.50	<0.50		<0.50	
TP mg/L	3.95	3.95	TP mg/L	*	*	5.67	*	5.67	<0.05		<0.05	
O-PO4-P mg/L	2.67	2.67	O-PO4-P mg/L	*	*	3.54	*	3.54	<0.05		<0.05	
SO4 mg/L	<30	<30	SO4 mg/L	*	*	<30	<30	<30	NO RESULT**	" saline interference	NO RESULT**	
Phenols µg/L	<0.10	<0.10	Phenols µg/L	*	*	<0.10	*	<0.10	<0.10		<0.10	
Atrazine µg/L	<0.01	<0.01	Atrazine µg/L	*	*	<0.01	*	<0.01	<0.01		<0.01	
Dichloromethane µg/L	<1	<1	Dichloromethane	*	*	<1	*	<1	<1		<1	
Simazine µg/L	<0.01	<0.01	Simazine µg/L	*	*	<0.01	*	<0.01	<0.01		<0.01	
Toluene µg/L	<0.28	<0.28	Toluene µg/L	*	*	<0.28	*	<0.28	<0.28		<0.28	
Tributyltin µg/L	<0.25*	<0.25*	Tributyltin µg/L	*	*	<0.05	*	<0.05*	<0.02		<0.02	
Xylenes µg/L	<1	<1	Xylenes µg/L	*	*	<1	*	<1	<1		<1	
Arsenic µg/L	<0.96	<0.96	Arsenic µg/L	*	*	<0.96	*	<0.96	1.6		1.6	
Chromium ug/L	<20	<20	Chromium ug/L	*	*	<20	*	<20	<20		<20	saline interference
Copper ug/L	60	60	Copper ug/L	*	*	32	*	32	<20		<20	<1
Cyanide µg/L	<5	<5	Cyanide µg/L	*	*	<5	*	<5	<5		<5	
Fluoride µg/L	<100	<100	Fluoride µg/L	*	*	<100	<100	<100	481	" saline interference	481	
Lead ug/L	<20	<20	Lead ug/L	*	*	<20	*	<20	<20		<20	4.28
Nickel ug/L	<20	<20	Nickel ug/L	*	*	<20	*	<20	<20		<20	1.512
Zinc ug/L	66	66	Zinc ug/L	*	*	36	*	36	<20		<20	3.57
Boron ug/L	<20	<20	Boron ug/L	*	*	<20	*	<20	2673.7		2673.7	2673.7
Cadmium ug/L	<20	<20	Cadmium ug/L	*	*	<20	*	<20	<20		<20	<1
Mercury µg/L	<0.2	<0.2	Mercury µg/L	*	*	<0.2	*	<0.2	<0.2		<0.2	
Selenium µg/L	3.6	3.6	Selenium µg/L	*	*	1.8	*	1.8	934.7	" saline interference	934.7	
Barium ug/L	24	24	Barium ug/L	*	*	<20	*	<20	<20		<20	10.26

TBT Detection limit raised due to complications with sample matrix prior to analysis

TBT Detection limit raised due to complications with sample matrix prior to analysis

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

" saline interference

NO RESULT**
INTERFERENCE DUE TO SALINITY IN TEST

Attachment F

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

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Application D0471-01 Glengarriff

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	<20µg/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	4.28µg/L
Nickel and its compounds	20	1.512µg/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.