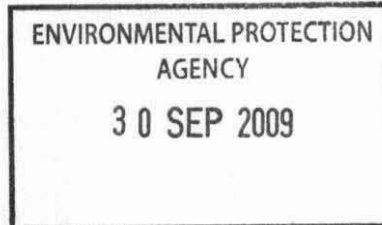


# Comhairle Contae Chorcaí Cork County Council

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



29<sup>th</sup> September 2009

**Re: Waste Water Discharge Licence for the Midleton Agglomeration  
Application Register No. D0056-01**

To whom it may concern

Please find enclosed outstanding documentation required under Regulation 18 (3) (b) of the Waste management Regulations for the above licence application.

This data is contained in pdf format on two CD ROM's as requested along with two hardcopies of the documents also.

Yours Sincerely

Patricia Power  
Director of Service  
Area Operations South  
Floor 5  
Co Hall



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29<sup>th</sup> September 2009

**Re: Waste Water Discharge Licence for the Middleton Agglomeration  
Application Register No. D0056-01**

To whom it may concern

Please find attached revised Table D data as promised in recent letter dated 15<sup>th</sup> September.

The Data contained on these tables is current data as opposed to data submitted with the original application form in December 2007.

With regard to the recent Regulation 18 letter, one query raised with regard to tables in Section D was deferred until the data was revised. This issue is detailed and answered below.

- *In relation to Table D.1(i)(a) and (i), provide a breakdown by source of the flow and give the dry weather flow of the primary discharge. In relation to Table D.1(i)(b) give details of the mass load calculations.*

Table D Data was initially submitted in Dec 2007 ( Table D.1 (i)(a))

This data was resubmitted in March 2008 as it was found to contain some mathematical errors. By then the technical amendment had been issued to Irish Distillers which contained max. flows licenced for discharge to the primary discharge point. This second table of data which contains the revised IDL figures is labelled Table D.1 (i)(a) (i).



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With regard to data now being submitted for the year Sept 08 to August 09, the breakdown of flow is as follows

The WWTP treats and discharges on average 2.5 DWF daily. Once the plant is upgraded the new DWF figure will be 40l/s. This equates to a normal/day figure of 8,640cu.m/day. A record of flows from Irish Distillers was not available to cover exactly the same time frame but up to June 2009 the max flow discharged to the municipal sewer was 2000cu.m/day. The normal/day figure submitted is 11,000cu.m to account for greater than average flows through the WWTP on occasion and the fact that an incomplete set of records was unavailable from Irish Distillers.

The projected DWF from the WWTP is 40l/s but as this combines with a variable daily flow from IDL and is also not discharged continually no overall DWF for the primary discharge can be provided.

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**TABLE D.1(i)(a): EMISSIONS TO SURFACE/GROUND WATERS  
(Primary Discharge Point)**

**Discharge Point Code:** SW01Midl Revised

Source of Emission:	Rathcoursey Final Treated Effluent Outfall
Location:	Rathcoursey Point
Grid Ref. (12 digit, 6E, 6N):	186177E 069506N
Name of receiving waters:	North Great Channel
River Basin District:	South Western River Basin District
Designation of receiving waters:	RPA Species SPA.RPA nutrient Sensitive Estauary
Flow rate in receiving waters:	<p style="text-align: center;">Not applicable <math>m^3 \cdot sec^{-1}</math> Dry Weather Flow</p> <p style="text-align: right;">Not applicable <math>m^3 \cdot sec^{-1}</math> 95%ile flow</p>

**Emission Details:**

(i) Volume emitted <b>270m3/hr is IDL max per hour</b>			
Normal/day	11000 m <sup>3</sup>	Maximum/day	16000* m <sup>3</sup>
Maximum rate/hour	N/a m <sup>3</sup>	Period of emission (avg)	<u>60</u> min/hr <u>7</u> hr/day <u>365</u> day/yr
Dry Weather Flow	Tidal tank containing effluent from two sources		

\*note volume set at maximum value of 5000 m3/day after technical amendment of IDL -IPPC licence

**TABLE D.1(i)(b): EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of the emission  
(Primary Discharge Point)**

**Discharge Point Code:** SW01Midl Revised

Number	Substance	As discharged	
		Max. daily average	
1	pH	9.0	
2	Temperature	25 °C	
3	Electrical Conductivity(@25°C)	1000	
		Max. daily average (mg/l)*	kg/day*
4	Suspended Solids	35	560
5	Ammonia (as N)	Not applicable	Not applicable
6	Biochemical Oxygen Demand	25	400
7	Chemical Oxygen Demand	125	2000
8	Total Nitrogen (as N)	15	240
9	Nitrite (as N)	*	*
10	Nitrate (as N)	*	*
11	Total Phosphorus (as P)	2	*
12	Orthophosphate (as P) <sup>Note 1</sup>	1.6	25.6
13	Sulphate (SO <sub>4</sub> )	250	4000
14	Phenols (sum) <sup>Note 2</sup> (ug/l)	<0.1	<0.0016

Note 1: For waste water samples this monitoring should be undertaken on a sample filtered on 0.45µm filter paper.

Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

**TABLE D.1(i)(c): DANGEROUS SUBSTANCE EMISSIONS TO SURFACE/GROUND WATERS**

**Primary Discharge Point - Characteristics of the emission**

**Discharge Point Code: SW01Midl Revised**

Number	Substance	As discharged		
		Max. daily average ( $\mu\text{g/l}$ )*	kg/day*	kg/year*
1	Atrazine	<0.01	<0.00016	<0.0584
2	Dichloromethane	<1.0	<0.016	<5.84
3	Simazine	<0.01	<0.00016	<0.0584
4	Toluene	<1.0	<0.016	<5.84
5	Tributyltin	<0.02	<0.00032	<0.1168
6	Xylenes	<1.0	<0.016	<5.84
7	Arsenic	<10	<0.16	<58.4
8	Chromium	<20	<0.32	<116.8
9	Copper	<20	<0.32	<116.8
10	Cyanide	Not applicable	Not applicable	Not applicable
11	Fluoride	<150	<2.4	<876.0
12	Lead	<20	<0.32	<116.8
13	Nickel	<20	<0.32	<116.8
14	Zinc	<20	<0.32	<116.8
15	Boron	Not applicable	Not applicable	Not applicable
16	Cadmium	<20	<0.32	<116.8
17	Mercury	<0.2	<0.0032	<1.168
18	Selenium	Not applicable	Not applicable	Not applicable
19	Barium	Not applicable	Not applicable	Not applicable

Note 1: For waste water samples this monitoring should be undertaken on a sample filtered on 0.45 $\mu\text{m}$  filter paper.

Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.



**TABLE D.1(iii)(a): EMISSIONS TO SURFACE/GROUND WATERS  
(Storm Water Overflow) (1 table per discharge point)**

**Discharge Point Code:** SW04Midl Revised

Source of Emission:	Screened storm Overflow		
Location:	Bailick No.2 Storm Overflow		
Grid Ref. (12 digit, 6E, 6N):	188045E 072513N		
Name of receiving waters:	Ballynacorra /Owenacurra River		
River Basin District:	South Western River Basin District		
Designation of receiving waters:	SAC,SPA, pNHA,		
Flow rate in receiving waters:			0.024 m <sup>3</sup> .sec <sup>-1</sup> Dry Weather Flow 0.08 m <sup>3</sup> .sec <sup>-1</sup> 95%ile flow

**Emission Details:**

(i) Volume emitted – 55634.4m3 ( Data taken from 1 <sup>st</sup> Sept 2008 to 31 <sup>st</sup> Aug 2009)			
Normal/day	152m3	Maximum/day	2023m3
Maximum rate/hour	720m3	Period of emission (avg)	_____ min/hr <u>0.34</u> hr/day <u>221</u> day/yr



**TABLE D.1(iv)(a): EMISSIONS TO SURFACE/GROUND WATERS  
(Storm Water Overflow) (1 table per discharge point)**

**Discharge Point Code:** SW05Midl Revised

Source of Emission:	Screened storm Overflow
Location:	Ballinacurra No.2 Storm Overflow
Grid Ref. (12 digit, 6E, 6N):	188520E 071783N
Name of receiving waters:	Owenacurra Estuary
River Basin District:	South Western River Basin District
Designation of receiving waters:	SAC,SPA, pNHA, sensitive waters
Flow rate in receiving waters:	<div style="text-align: right;">_____ 0.024 m<sup>3</sup>.sec<sup>-1</sup> Dry Weather Flow</div> <div style="text-align: right;">_____ 0.08 m<sup>3</sup>.sec<sup>-1</sup> 95%ile flow</div>

**Emission Details:**

(i) Volume emitted -(No overflows between 1 <sup>st</sup> Sept 2008 and 31 <sup>st</sup> Aug 2009)			
Normal/day	0m3	Maximum/day	0m3
Maximum rate/hour	630m3	Period of emission (avg)	_____ 0 min/hr _____ 0 hr/day _____ 0 day/yr

**TABLE D.1(v)(a): EMISSIONS TO SURFACE/GROUND WATERS  
(Storm Water Overflow) (1 table per discharge point)**

**Discharge Point Code:** SW07Midl Revised

Source of Emission:	Screened storm Overflow
Location:	Dwyers Road PS Storm Overflow
Grid Ref. (12 digit, 6E, 6N):	188520E 071783N
Name of receiving waters:	Owenacurra Estuary
River Basin District:	South Western River Basin District
Designation of receiving waters:	SAC,SPA, pNHA, sensitive waters
Flow rate in receiving waters:	<div style="text-align: right;">_____ 0.024 m<sup>3</sup>.sec<sup>-1</sup> Dry Weather Flow</div> <div style="text-align: right;">_____ 0.08 m<sup>3</sup>.sec<sup>-1</sup> 95%ile flow</div>

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**Emission Details:**

(i) Volume emitted -(No overflows between 1 <sup>st</sup> Sept 2008 and 31 <sup>st</sup> Aug 2009)			
Normal/day	0m3	Maximum/day	0m3
Maximum rate/hour	Gravity flow	Period of emission (avg)	_____ 0 _____ min/hr _____ 0 _____ hr/day _____ 0 _____ day/yr