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

Discharge Point Code: SW01 Castlemartyr

Source of Emission:	Castlemartyr WWTP Primary Discharge and Storm overflow from plant
Location:	Bridgetown, Castlemartyr
Grid Ref. (12 digit, 6E, 6N):	196303E, 72884N
Name of receiving waters:	Kiltha River
River Basin District:	South Western River Basin District
Designation of receiving waters:	None
Flow rate in receiving waters:	0.0085 $m^3.sec^{-1}$ Dry Weather Flow 0.033 $m^3.sec^{-1}$ 95%ile flow

Emission Details:

(i) Volume emitted			
Normal/day	255m^3	Maximum/day	405m^3
Maximum rate/hour	m^3	Period of emission (avg)	60 min/hr 24 hr/day 365 day/yr
Dry Weather Flow	m^3/sec		

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

Discharge Point Code: SW01 Castlemartyr

Number	Substance	As discharged	
		Max. daily average	
1	pH	6.5-8.5	
2	Temperature	25 °C	
3	Electrical Conductivity(@20°C)	1000	
		Max. daily average (mg/l)	**kg/day**
4	Suspended Solids	35	14.175
5	Ammonia (as N)	5	2.025
6	Biochemical Oxygen Demand	25	10.125
7	Chemical Oxygen Demand	125	50.625
8	Total Nitrogen (as N)	6	2.43
9	Nitrite (as N)	Not available	Not available
10	Nitrate (as N)	Not available	Not available
11	Total Phosphorus (as P)	4	1.62
12	Orthophosphate (as P)[Note 1]	3	1.215
13	Sulphate (SO_4)	Not available	Not available
14	Phenols (sum) [Note 2] (ug/l)	Not available	Not available

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: SW01 Castlemartyr

Number	Substance	As discharged		
		Max. daily average (µg/l)	kg/day	Kg/year
1	Atrazine	Not available	Not available	Not available
2	Dichloromethane	Not available	Not available	Not available
3	Simazine	Not available	Not available	Not available
4	Toluene	Not available	Not available	Not available
5	Tributyltin	Not available	Not available	Not available
6	Xylenes	Not available	Not available	Not available
7	Arsenic	Not available	Not available	Not available
8	Chromium	Not available	Not available	Not available
9	Copper	Not available	Not available	Not available
10	Cyanide	Not available	Not available	Not available
11	Fluoride	Not available	Not available	Not available
12	Lead	Not available	Not available	Not available
13	Nickel	Not available	Not available	Not available
14	Zinc	Not available	Not available	Not available
15	Boron	Not available	Not available	Not available
16	Cadmium	Not available	Not available	Not available
17	Mercury	Not available	Not available	Not available
18	Selenium	Not available	Not available	Not available
19	Barium	Not available	Not available	Not available

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(ii)(a): EMISSIONS TO SURFACE/GROUND WATERS
(Secondary Discharge Point) (1 table per discharge point)

Discharge Point Code: SW02 Castlemartyr

Source of Emission:	Emergency Overflow from Pumping Station
Location:	Bridgetown, Castlemartyr
Grid Ref. (12 digit, 6E, 6N):	196377E, 72203N
Name of receiving waters:	Kiltha River
River Basin District:	South Western River Basin District
Designation of receiving waters:	None
Flow rate in receiving waters:	0.0085 $m^3.sec^{-1}$ Dry Weather Flow 0.033 $m^3.sec^{-1}$ 95%ile flow

Emission Details:

(i) Volume emitted			Not available
Normal/day	Not available	Maximum/day	Not available
Maximum rate/hour	Not available	Period of emission (avg)	_____min/hr _____hr/day _____day/yr
Dry Weather Flow	Not available		

TABLE D.1(ii)(b): EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of the emission (1 table per discharge point)

(Secondary Discharge Point)

Discharge Point Code: SW02 Castlemartyr

Number	Substance	As discharged	
		Max. daily average	
1	pH	Not available	
2	Temperature	Not available	
3	Electrical Conductivity (@25°C)	Not available	
		Max. daily average (mg/l)	**kg/day**
4	Suspended Solids	Not available	Not available
5	Ammonia (as N)	Not available	Not available
6	Biochemical Oxygen Demand	Not available	Not available
7	Chemical Oxygen Demand	Not available	Not available
8	Total Nitrogen (as N)	Not available	Not available
9	Nitrite (as N)	Not available	Not available
10	Nitrate (as N)	Not available	Not available
11	Total Phosphorus (as P) Note 1	Not available	Not available
12	Orthophosphate (as P)	Not available	Not available
13	Sulphate (SO_4)	Not available	Not available
14	Phenols (sum) Note 2 (ug/l)	Not available	Not available

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(ii)(c): DANGEROUS SUBSTANCE EMISSIONS TO SURFACE/GROUND WATERS

Secondary Discharge Point - Characteristics of the emission (1 table per discharge point)

Discharge Point Code: SW02 Castlemartyr

Number	Substance	As discharged		
		Max. daily average (µg/l)	kg/day	Kg/year
1	Atrazine	Not available	Not available	Not available
2	Dichloromethane	Not available	Not available	Not available
3	Simazine	Not available	Not available	Not available
4	Toluene	Not available	Not available	Not available
5	Tributyltin	Not available	Not available	Not available
6	Xylenes	Not available	Not available	Not available
7	Arsenic	Not available	Not available	Not available
8	Chromium	Not available	Not available	Not available
9	Copper	Not available	Not available	Not available
10	Cyanide	Not available	Not available	Not available
11	Fluoride	Not available	Not available	Not available
12	Lead	Not available	Not available	Not available
13	Nickel	Not available	Not available	Not available
14	Zinc	Not available	Not available	Not available
15	Boron	Not available	Not available	Not available
16	Cadmium	Not available	Not available	Not available
17	Mercury	Not available	Not available	Not available
18	Selenium	Not available	Not available	Not available
19	Barium	Not available	Not available	Not available

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

Discharge Point Code: SW01 Storm Overflow

Source of Emission:	Emergency Storm Overflow at treatment plant
Location:	Bridgetown, Castlemartyr
Grid Ref. (12 digit, 6E, 6N):	196303E, 72884N
Name of receiving waters:	Kiltha River
River Basin District:	South Western River Basin District
Designation of receiving waters:	None
Flow rate in receiving waters:	0.0085 $m^3.sec^{-1}$ Dry Weather Flow 0.033 $m^3.sec^{-1}$ 95%ile flow

Emission Details:

(i) Volume emitted			Not available
Normal/day	Not available	Maximum/day	Not available
Maximum rate/hour	Not available	Period of emission (avg)	Not available min/hr _____hr/day _____day/yr

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

Discharge Point Code: SW02 Storm Overflow

Source of Emission:	Emergency Storm Overflow at pumping station
Location:	Bridgetown, Castlemartyr
Grid Ref. (12 digit, 6E, 6N):	196377E, 72203N
Name of receiving waters:	Kiltha River
River Basin District:	South Western River Basin District
Designation of receiving waters:	None
Flow rate in receiving waters:	0.0085 $m^3.sec^{-1}$ Dry Weather Flow 0.033 $m^3.sec^{-1}$ 95%ile flow

Emission Details:

(i) Volume emitted			Not available
Normal/day	Not available	Maximum/day	Not available
Maximum rate/hour	Not available	Period of emission (avg)	Not available min/hr _____hr/day _____day/yr

Table D2

PT_CD	PT_TYPE	LA_NAME	RWB_TYPE	RWB_NAME	Designation	EASTING	NORTHING
Point Code Provide label ID's	Point Type (e.g., Primary/ Secondary/ Storm Water Overflow)	Local Authority Name (e.g., Donegal County Council)	Receiving Water Body Type (e.g., River, Lake, Groundwater, Transitional, Coastal)	Receiving Water Body Name (e.g., River Suir)	Protected Area Type (e.g., SAC, candidate SAC, NHA, SPA etc.)	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference
SW01CMYR	Primary	Cork County Council	River	Kiltha River	Not applicable	196235	72891
	Secondary	Cork County Council	River	Kiltha River	Not applicable	196235	72891
	Storm Water Overflow	Cork County Council	River	Kiltha River	Not applicable	196235	72891
SW02CMYR	Secondary	Cork County Council	River	Kiltha River	Not applicable	196377	72203
	Storm Water Overflow	Cork County Council	River	Kiltha River	Not applicable	196377	72203

Table E3

PT_CD	PT_TYPE	MON_TYPE	Easting	Northing	Verified
Point Code Provide label ID's assigned in section E of application	Point Type (e.g., Primary, Secondary, Storm Water Overflow)	Monitoring Type M = Monitoring S = Sampling	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference	Y = GPS used N = GPS not used
SW01CMYR - Flow monitoring at outlet	Primary / Secondary / Storm Overflow	M	196285	72884	N
SW01CMYR - Outlet monitoring	Primary / Secondary / Storm Overflow	S	196288	72884	N
SW01CMYR - Inlet	Primary	S	196303	72887	N
SW01CMYR - Flow Monitoring	Primary	M	196298	72893	N
SW01CMYR - Aeration Tank	Primary	S	196298	72884	N
aSW01CMYRu	Primary / Secondary / Storm Overflow	S	196378	73195	N
aSW01CMYRd	Primary / Secondary / Storm Overflow	S	196206	72835	N