

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

Discharge Point Code: SW 1 - FERMOY

Source of Emission:	Fermoy WWTP
Location:	Strawhall, Townsland of Fermoy
Grid Ref. (12 digit, 6E, 6N):	E : 182331 N : 098819
Name of receiving waters:	River Blackwater
River Basin District:	South Western River Basin District
Designation of receiving waters:	SAC SPA NHA & Sensitive Waters (Under UWWD) Salmonid
Flow rate in receiving waters:	<p style="text-align: right;">_____ Not Available _____ m³.sec⁻¹ Dry Weather Flow</p> <p style="text-align: right;">_____ Not Available _____ m³.sec⁻¹ 95%ile flow</p>

Emission Details:

(i) Volume emitted	4097 cubic metres		
Normal/day	4097 cu. m	Maximum/day	5631 cu.m
Maximum rate/hour	250 cu.m	Period of emission (avg)	_____min/hr <u>24</u> hr/day _____day/yr
Dry Weather Flow	0.032 cu. m/sec		

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

Discharge Point Code: SW 1 - FERMOY

Number	Substance	As discharged	
		Max. daily average	
1	pH	7.3	
2	Temperature	Not Available	
3	Electrical Conductivity(@20°C)	565	
		Max. daily average (mg/l)	kg/day
4	Suspended Solids	9.78	34.74
5	Ammonia (as N)	<0.1	<0.36
6	Biochemical Oxygen Demand	3.24	11.5
7	Chemical Oxygen Demand	24	85.27
8	Total Nitrogen (as N)	14.26	50.67
9	Nitrite (as N)	Not Available	Not Available
10	Nitrate (as N)	0.43	1.53
11	Total Phosphorus (as P)	1.20	4.28
12	Orthophosphate (as P) ^{Note 1}	1.28	4.54
13	Sulphate (SO ₄)	30	106.59
14	Phenols (sum) ^{Note 2} (ug/l)	<0.10	<0.0004

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.

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

Primary Discharge Point - Characteristics of the emission

Discharge Point Code: SW 1 FERMOY

Number	Substance	As discharged		
		Max. daily average (µg/l)	kg/day	kg/year
1	Atrazine	<0.01	<0.00004	<0.0146
2	Dichloromethane	<1	<0.0036	<1.31
3	Simazine	<0.01	<0.00004	<0.0146
4	Toluene	<0.01	<0.00004	<0.0146
5	Tributyltin	Not Available	Not Available	Not Available
6	Xylenes	<0.01	<0.00004	<0.0146
7	Arsenic	10	0.0355	12.96
8	Chromium	<20	<0.071	<25.9
9	Copper	<20	<0.071	<25.9
10	Cyanide	<5	<0.018	<6.57
11	Fluoride	<0.1	<0.356	<130
12	Lead	<20	<0.0835	<30.48
13	Nickel	<20	<0.071	<25.9
14	Zinc	<20	<0.071	<25.9
15	Boron	<20	<0.071	<25.9
16	Cadmium	<20	<0.071	<25.9
17	Mercury	<0.2	<0.0008	<0.292
18	Selenium	4	0.014	5.11
19	Barium	<20	<0.071	<25.9

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

Discharge Point Code: SW 2 - FERMOY

Source of Emission:	Pumping Station
Location:	Strawhall, Townland of Strawhill
Grid Ref. (12 digit, 6E, 6N):	E : 182193 N : 098780
Name of receiving waters:	River Blackwater
River Basin District:	South Western River Basin District
Designation of receiving waters:	SAC SPA NHA & Sensitive Waters (Under UWWD) Salmonid
Flow rate in receiving waters:	<p style="text-align: right;">Not Available $\text{m}^3.\text{sec}^{-1}$ Dry Weather Flow</p> <p style="text-align: right;">Not Available $\text{m}^3.\text{sec}^{-1}$ 95%ile flow</p>

Emission Details:

(i) Volume emitted			
Normal/day	Not Available m^3	Maximum/day	Not Available m^3
Maximum rate/hour	Not Available m^3	Period of emission (avg)	Not Available min/hr hr/day day/yr
Dry Weather Flow	Not Available m^3/sec		

**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: SW 2 - FERMOY

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

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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: SW 2 - FERMOY

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

Discharge Point Code: SW 3 - FERMOY

Source of Emission:	Pumping Station
Location:	Rathealy Road, Townsland of Carrignagroghera
Grid Ref. (12 digit, 6E, 6N):	E : 181462 N : 098719
Name of receiving waters:	River Blackwater
River Basin District:	South Western River Basin District
Designation of receiving waters:	SAC SPA NHA & Sensitive Waters (Under UWWD) Salmonid
Flow rate in receiving waters:	<p style="text-align: right;">_____ Not Available _____ m³.sec⁻¹ Dry Weather Flow</p> <p style="text-align: right;">_____ Not Available _____ m³.sec⁻¹ 95%ile flow</p>

Emission Details:

(i) Volume emitted			
Normal/day	Not Available m ³	Maximum/day	Not Available m ³
Maximum rate/hour	Not Available m ³	Period of emission (avg)	Not Available ___ min/hr ___ hr/day ___ day/yr
Dry Weather Flow	Not Available m ³ /sec		

**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: SW 3 - FERMOY

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

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

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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: SW 3 - FERMOY

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

Discharge Point Code: SW 4 - FERMOY

Source of Emission:	Piped Surface Water including Trade Discharge from MICROBIO
Location:	Fermoy Bridge North East, Townsland of Carrignagroghera
Grid Ref. (12 digit, 6E, 6N):	E : 181232 N : 098624
Name of receiving waters:	River Blackwater
River Basin District:	South Western River Basin District
Designation of receiving waters:	SAC SPA NHA & Sensitive Waters (Under UWWD) Salmonid
Flow rate in receiving waters:	<p style="text-align: right;">_____ Not Available _____ m³.sec⁻¹ Dry Weather Flow</p> <p style="text-align: right;">_____ Not Available _____ m³.sec⁻¹ 95%ile flow</p>

Emission Details:

(i) Volume emitted			
Normal/day	Not Available m ³	Maximum/day	Not Available m ³
Maximum rate/hour	Not Available m ³	Period of emission (avg)	Not Available _____ min/hr _____ hr/day _____ day/yr
Dry Weather Flow	m ³ /sec		

**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: SW 4 - FERMOY

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

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

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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: SW 4- FERMOY

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: SW 5 - FERMOY

Source of Emission:	Combined Storm Water Overflow
Location:	Fermoy Bridge North East, Townsland of Carrignagroghera.
Grid Ref. (12 digit, 6E, 6N):	E : 182191 N : 098622
Name of receiving waters:	River Blackwater
River Basin District:	South Western River Basin District
Designation of receiving waters:	SAC SPA NHA & Sensitive Waters (Under UWWD) Salmonid
Flow rate in receiving waters:	<p style="text-align: right;">_____ Not Available ___m³.sec⁻¹ Dry Weather Flow</p> <p style="text-align: right;">_____ Not Available ___m³.sec⁻¹ 95%ile flow</p>

Emission Details:

(i) Volume emitted			
Normal/day	Not Available m ³	Maximum/day	Not Available m ³
Maximum rate/hour	Not Available m ³	Period of emission (avg)	<p style="text-align: center;">_____ Not Available ___min/hr _____hr/day _____day/yr</p>

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

Discharge Point Code: SW 6 - FERMOY

Source of Emission:	Combined Storm Water Overflow
Location:	Fitzgerald Place, Townsland of Fermoy
Grid Ref. (12 digit, 6E, 6N):	E : 181400 N : 098557
Name of receiving waters:	River Blackwater
River Basin District:	South Western River Basin District
Designation of receiving waters:	SAC SPA NHA & Sensitive Waters (Under UWWD) Salmonid
Flow rate in receiving waters:	<p style="text-align: right;">_____ Not Available ___m³.sec⁻¹ Dry Weather Flow</p> <p style="text-align: right;">_____ Not available ___m³.sec⁻¹ 95%ile flow</p>

Emission Details:

(i) Volume emitted			
Normal/day	Not Available m ³	Maximum/day	Not Available m ³
Maximum rate/hour	Not Available m ³	Period of emission (avg)	<p style="text-align: center;">_____ Not Available ___min/hr _____hr/day _____day/yr</p>

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

Discharge Point Code: SW 7 - FERMOY

Source of Emission:	Combined Storm Water Overflow
Location:	Fermoy Bridge South East, Townsland of Fermoy
Grid Ref. (12 digit, 6E, 6N):	E : 181217 N : 098500
Name of receiving waters:	River Blackwater
River Basin District:	South Western River Basin District
Designation of receiving waters:	SAC SPA NHA & Sensitive Waters (Under UWWD) Salmonid
Flow rate in receiving waters:	<p style="text-align: right;">_____ Not Available _____m³.sec⁻¹ Dry Weather Flow</p> <p style="text-align: right;">_____ Not Available _____m³.sec⁻¹ 95%ile flow</p>

Emission Details:

(i) Volume emitted			
Normal/day	Not Available m ³	Maximum/day	Not Available m ³
Maximum rate/hour	Not Available m ³	Period of emission (avg)	<p style="text-align: right;">_____ Not Available _____ min/hr _____ hr/day _____ day/yr</p>

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

Discharge Point Code: SW 8 - FERMOY _____

Source of Emission:	Combined Storm Water Overflow
Location:	Waterloo Lane, Townland of Fermoy
Grid Ref. (12 digit, 6E, 6N):	E : 180936 N : 098498
Name of receiving waters:	River Blackwater
River Basin District:	South Western River Basin District
Designation of receiving waters:	SAC SPA NHA & Sensitive Waters (Under UWWD) Salmonid
Flow rate in receiving waters:	<p style="text-align: right;">_____ Not Available ___m³.sec⁻¹ Dry Weather Flow</p> <p style="text-align: right;">_____ Not Available ___m³.sec⁻¹ 95%ile flow</p>

Emission Details:

(i) Volume emitted			
Normal/day	Not Available m ³	Maximum/day	Not Available m ³
Maximum rate/hour	Not Available m ³	Period of emission (avg)	<p style="text-align: center;">_____ Not available ___min/hr _____hr/day _____day/yr</p>

Table D.2: Fermoy							
PT_CD	PT_TYPE	LA_NAME	RWB_TYPE	RWB_NAME	DESIGNATION	EASTING	NORTHING
SW1	Primary	Cork County Council	River	Blackwater	SAC, NHA, SPA	182331	098819
SW2	Secondary	Cork County Council	River	Blackwater	SAC, NHA, SPA	182193	098780
SW3	Secondary	Cork County Council	River	Blackwater	SAC, NHA, SPA	181462	098719
SW4	Secondary	Cork County Council	River	Blackwater	SAC, NHA, SPA	181232	098624
SW5	Storm Water Outflow	Cork County Council	River	Blackwater	SAC, NHA, SPA	181191	098622
SW6	Storm Water Outflow	Cork County Council	River	Blackwater	SAC, NHA, SPA	181400	098557
SW7	Storm Water Outflow	Cork County Council	River	Blackwater	SAC, NHA, SPA	181217	098500
SW8	Storm Water Outflow	Cork County Council	River	Blackwater	SAC, NHA, SPA	180936	098498

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