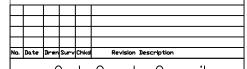


NOTES

- Dimensions are not to be scaled from drawing.
 For any discrepancies found consult with the design office.
- 2. This drawing is to be read in conjunction with the Specification.
- This drawing is to be read in conjunction with all other contract drawings.



Cork County Council, Northern Division.



N. D'KEEFFE, B.E., A/COUNTY ENGINEER, COUNTY HALL, CORK.

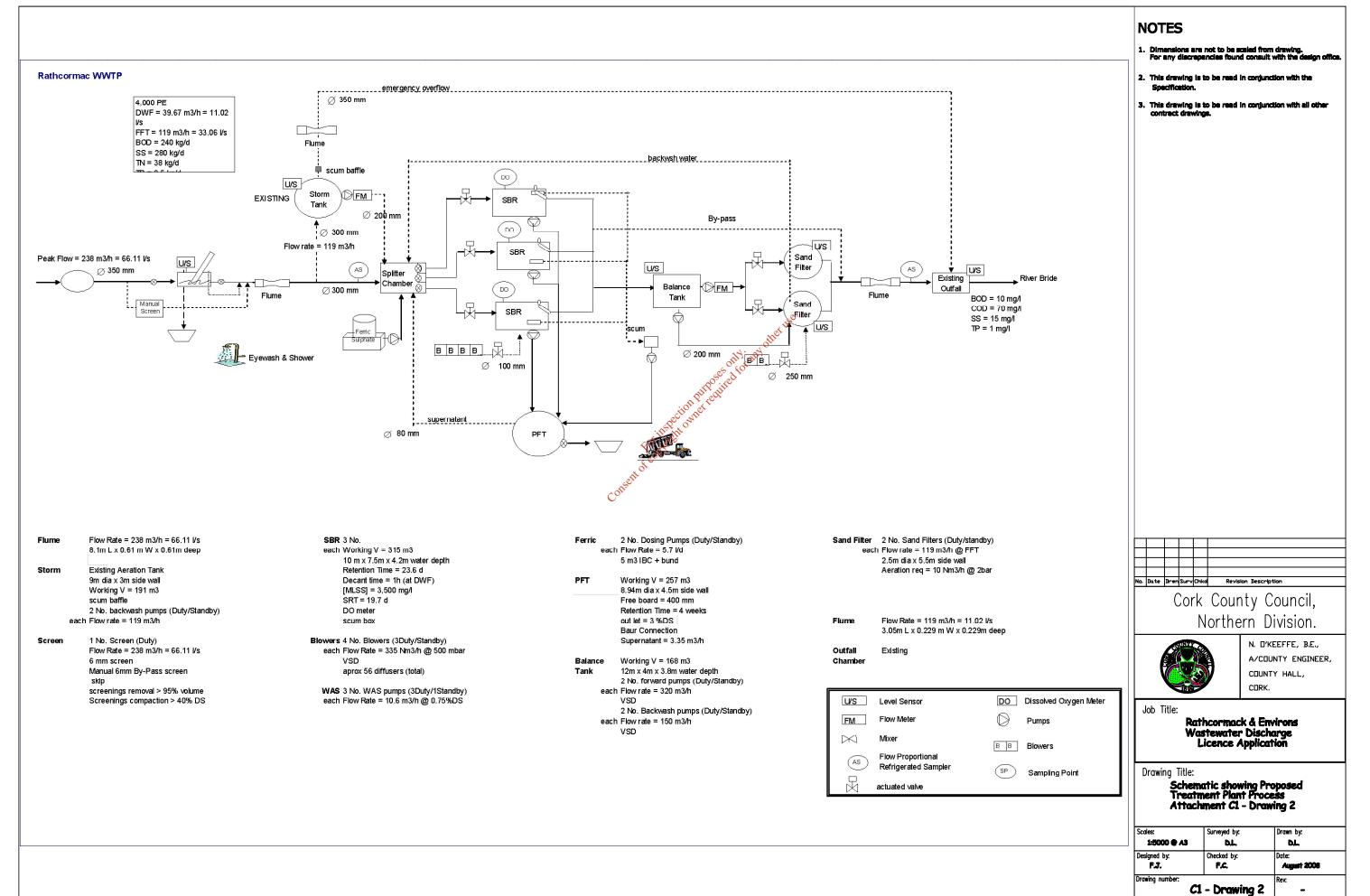
Job Title:

Rathcormack & Environs Wastewater Discharge Licence Application

Drawing Title:

Schematic showing Existing Treatment Plant Process Attachment C1 - Drawing 1

Scales:	Surveyed by:	Drawn by:
1:5000 @ A3	D.L.	D.L.
Designed by:	Checked by:	Date:
F.J.	F.C.	August 2008
Drawing number:		Rev:
_	1 Deswine 1	



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

Discharge Point Code:	SW01 Rathcormac	

Source of Emission:	Rathcormack Wastewater treatment Plant
Location:	Bridetown East Townland ,Rathcormack
Grid Ref. (12 digit, 6E, 6N):	E180980 N090731 Net 1960
Name of receiving waters:	River Bride on the control of the co
River Basin District:	South Western River Basin
Designation of receiving waters:	Salmonid specifor the same of
Flow rate in receiving waters:	m ³ .sec ⁻¹ Dry Weather Flow

Emission Details:

(i) Volume emitted				
Normal/day	720m³	Maximum/day	880 m	n³
Maximum rate/hour	50m ³	Period of emission (avg)	<u>60</u> _min/hr <u>24</u> _hr/day <u>365</u> _day/y	yr
Dry Weather Flow	0.01m³/sec			

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

Discharge Point Code: <u>SW01 Rathcormac</u>

Number	Substance	As discharged			
		Max. daily average			
1	pH	6.0 -9.0			
2	Temperature	<30 °C			
3	Electrical Conductivity(@20°C)	1000			
		Max. daily average (mg/l)*	kg/day*		
4	Suspended Solids	50x3' x53	44		
5	Ammonia (as N)	Not applicable	Not applicable		
6	Biochemical Oxygen Demand	, No. 35	30.8		
7	Chemical Oxygen Demand	7 1 1 25	110		
8	Total Nitrogen (as N)	action test 50	44		
9	Nitrite (as N)	Not applicable	Not applicable		
10	Nitrate (as N)	Not applicable	Not applicable		
11	Total Phosphorus (as P)	£ 000° 6.0	5.28		
12	Orthophosphate (as P)Note 1	5.0	4.4		
13	Sulphate (SO ₄)	Not applicable	Not applicable		
14	Phenols (sum) Note 2 (ug/l)	Not applicable	Not applicable		

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: <u>SW01 Rathcormac</u>

Number	Substance	As discharged			
		Max. daily average (μg/l)	kg/day*	Kg/year*	
1	Atrazine	Not applicable	Not applicable	Not applicable	
2	Dichloromethane	Not applicable	Not applicable	Not applicable	
3	Simazine	Not applicable	Not applicable	Not applicable	
4	Toluene	Not applicable	Not applicable	Not applicable	
5	Tributyltin	Not applicable	Not applicable	Not applicable	
6	Xylenes	Not applicable	Mil Not applicable	Not applicable	
7	Arsenic	Not applicable	Not applicable	Not applicable	
8	Chromium**	Not applicable	Not applicable	Not applicable	
9	Copper**	Not applicable 1	Not applicable	Not applicable	
10	Cyanide	Not applicable	Not applicable	Not applicable	
11	Fluoride	Not applicable	Not applicable	Not applicable	
12	Lead **	Not applicable	Not applicable	Not applicable	
13	Nickel**	Not applicable	Not applicable	Not applicable	
14	Zinc**	Not applicable	Not applicable	Not applicable	
15	Boron	Not applicable	Not applicable	Not applicable	
16	Cadmium**	Not applicable	Not applicable	Not applicable	
17	Mercury	Not applicable	Not applicable	Not applicable	
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 0.45μm 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 Rathcormack

Source of Emission:	Emergency Overflow from Pumping Station
Location:	Knocknabooly. Rathcormack
Grid Ref. (12 digit, 6E, 6N):	E180938 N091613
Name of receiving waters:	River Bride (North)
River Basin District:	South Western River Basin
Designation of receiving waters:	Salmonid Putto di la
Flow rate in receiving waters:	0.16 m³.sec ⁻¹ Dry Weather Flow
	m³.sec ⁻¹ 95%ile flow

Emission Details:

(i) Volume emitte	ed not available	Carr			
Normal/day	m ³	Maximum/day			m ³
Maximum rate/hour	m ³	Period of emission (avg)	min/hr	hr/day	day/yr
Dry Weather Flow	m³/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: <u>SW02 Rathcormac</u>

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 and the same and	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	Notavailable	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: <u>SW02 Rathcormac</u>

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:_____ Not Applicable Source of Emission: Location: Grid Ref. (12 digit, 6E, 6N): Name of receiving waters: River Basin District: Designation of receiving waters: m³.sec⁻¹ Dry Weather Flow Flow rate in receiving waters: m³.sec⁻¹ 95%ile flow **Emission Details:** Volume emitted m^3 m^3 Normal/day Maximum/day m^3 Maximum rate/hour Period of emission _min/hr ____hr/day _____day/yr (avg)

PT CD	PT_TYPE	LA_NAME	RWB_TYPE	RWB_NAME	DESIGNATION	EASTING	NORTHING	VERIFIED
PT_CD SW 1 -RATH	Primary	Cork County Council	River	River Bride	Salmonid Water	180980	90731	
W 2 - RATH	Secondary	Cork County Council	River	Shannowen River	U/S of Salmoid Water	180910	91635	Yes
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