

River Valley W.W.T.P. - Snag List

1	The site on which the plant is located is overgrown and the waste material lying around the plant which should be removed. The site should be tidied up to provide safe access for the curator. A hardcore surface is required for vehicle parking. All vegetation within the perimeter of the treatment plant and close to circulation paths etc. for maintenance staff should be removed or cut back as it interferes with save movement of staff operating the plant. Paths should be provided where necessary.			
2	Locks and keys should be provided for entrance gate and doors to control rooms to the Council's satisfaction. The same type of lock should be used throughout the facility so that it can be operated with a single key. (Note: total 6 no locks required.)			
3	Some of the pipes within the waste water treatment plant are held in place with timber supports. All pipelines should be secured using galvanised steel supports and fittings as necessary.			
4	The plywood covers (weighed down with cavity blocks) used as lids on the chambers of the treatment plant should be replaced with approved galvanised steel covers in accordance with the manufacturer's requirements. Galvanised steel covers are required for safety reasons and to minimise emission of odours.			
5	A U.V. treatment unit should be installed upstream of the constructed wetland.			
6	The inspection chamber near the discharge point should be rebuilt as directed on site.			
7	The effluent outflow pipe should be fitted with a diffuser on the outlet, in order to maximise the mixing of effluent with the receiving river water. The effluent outflow pipe shall be fitted with a flow-meter and composite samples at the discharge point following secondary treatment and before discharge to the wetlands of at a location agreed with the Licensing Authority. The flow meter shall be of the continuous recording and integrating type and composite sampler shall be flow proportionate. The sampler shall be capable of taking samples at a frequency to be agreed with the Licensing Authority making up to a composite sample once every 24 hours. This sampling and monitoring system shall be fully operational and in use at all times during which effluent is being discharged.			
8	All pump sumps and other treatment plant chambers from which spillages might occur shall be fitted with 'high liquid level' alarms. The alarm condition shall be indicated by a signal on site and also, by a dial out modem, to the person responsible for the site.			
	Control panels shall incorporate hours run meters for each individual unit. Containment areas around pump sumps shall be put in place and any spillages diverted to the effluent treatment plant. An alternative energy power supply shall be installed to augment the main power source in the event of a power failure on site unless alternative arrangements are agreed with the Licensing Authority.			
9	A standby storage facility for untreated effluent shall be installed to accommodate untreated wastewater in the event of a malfunction, or, breakdown of the effluent treatment. Details of this facility shall be agreed with the Licensing Authority.			

Attachment G.1. Capital Investment Programme

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Water Services Investment Programme 2007 - 2009

Schemes at Construction	WS	Dr. Cost	Schemes to start 2000 contd.	W/5	Est. Cos
Cork North			Cork South		
Mithelstown Sewerage Scheme			Balincolig Sewerage Schieme (Lipgrade) (G)	S	22.245.000
(Nutrient Removal)	8	221,000	Cod: Lower Harbour Soverage Scheme (excl. Crosshaven		73542000
Cork South			Sharmagarry/Garryvon/Statyorton Sewerage Scheme	S	3.780,000
Ballyrourrey/Ballymakeery Sewcrage Scheme	8	3.049.000	Voughal Sewerage Scheme	8	14400,000
Cobh/ Mideton/ Camgwohill Water Supply Scheme	w	10.135.000			74,400,000
Cork Lower Harbour Sewerage Scheme	-	10,00,000	Cork West		
(Crosshaver SS) (G)	8	4.850.000	Ballyderob Severage Scheme	8	-
Code Water Strategy Study (G)	W	941,000	Barry Water Supply Schools		683,000
Kinsale Sewerage Scheme	8	20,000,000		W	14,505,000
Mideton Sewerage Scheme (Infiltration Reduction) (G) S	2,078,000	Clorality Sewarage Scheme (Part Capacity Increase)	8	3,677,000
		41,274,000	Coutmacking/ Timdeagus Severage Scheme	S	2,472,000
Schemes to start 2007			Dumnarway Regional Water Supply Scheme Stage 1	W	12,689,000
Cork North					164,639,000
CONTRACTOR OF THE PARTY OF THE			Serviced Land hittotive		
North Colk Grouped DBO Wastewater Treatment Plant (Buttevant, Donesaile & Kibrin)	8	- Lane			
THE COURSE STREET & CETT	8	5,150,000	Cork North		
Cork West			Ballydough Water Supply Scheme	W	139,000
Skitherson Sewerage Scheme	8	20.000.000	Ballyhoday Improvement Schame	WB	139,000
		25,180,000	Brighti-Pathgrapi Cowerage Scheme	8	406,000
Schemes to start 2008			Bweeng Water Gupply Scheme	W	115,000
			Children Courses Columns (and Makes)	WS	543,000
Cork North			Compliane Sevage Teament Plant	8	417,000
Mallow/ Ballyurtter Regional Water Supply Scheme (H	W	8.052.000	Considere Severge Treatment Plant	S	190,000
Mallow Sewerage Scheme (H)	8	5.00ggbb	Place Road Sewerage Scheme (Ind. Wister)	WS	200000
Cork South		-05, 50	Rethormac Sewerage Scheme (Incl. Water)	WS	875,000
Cork south Ballincidig Sewerage Scheme (Nutrient Removal) (G)		purpositied	Spa Glen Severage Scheme	s	735,000
Balingeary Sewerage Scheme	~	1.296,000 14,729,000 153,000	Uplands Fermay Severage Scheme (not Wasse)	WE	1,174,000
Bandin Sewirage Scheme Bage 2	0,	Ø14 755 000	Watergrass's Vister Bupty Scheme (nd. Sewerage) (G)	WS	4,191,000
City Environs (CASP) Strategic Study (G)	The	153.000	The second second second	View I	
Cloghros Sewerage Scheme (Upgrade)	S	653,000	Cork South		
Coachton Water Supply Scheme	W	1,318,000	Baltroolig Sewerage Scheme (Barry's Rid Fourierd		
Garattistown Sewerage Scheme	8	2,153,000	Storm Dramage) (5)	8	1,164,000
Garnettsown Sewerage Scheme Inniscatra Water Treatment Plant Extension Plate 1 Little Island Sewerage Scheme (G)	W	2,678,000	Belgoday Water Supply Scheme (Incl. Sewerage)	WS	293000
Principle Water Treatment Plant Esteraion Challe 1 Little Island Sewerage Scheme (G) Cork West Banty Sewerage Scheme	S	2,200,000	Barroy Water Supply Scheme (Ext to Station Rd) (G)	W	495,000
ent			Compwortili Severage Schame (Resiment and		400,000
0115			Control of the Contro		
Cork West Banty Sewerage Scheme	6	-	Store Dran)(G)	S	7,632,000
During way Sewerage Scheme	8	7,148,000 2,153,000	Casileraty Watewater Teatment Plant Econsion	3	1,200,000
Leap/ Baltmore Water Supply Scheme	W	6.365,000	Godistown Sewarage Scheme (Ind. Water)	WS	1,200,000
Schull Water Buppy Scheme	w	5.253,000	Drpady Water Supply Scheme (Incl. Sewerage)	WS	1,112,000
		61,137,000	Glauffrane Sewerage Scheme (G)	8	F25E000
Schemes to start 2009			hrishannon-Sewerage Scrieme	8	277,000
			Infehannon Wastewater Seatment Flant	S	694,000
Cork North			Kerypke Severage Scheme	8	832,000
Bantper/Oromahene Regional Water Supply Scheme	W	1,576,000	Kerypike Water Supply Scheme	W	416,000
Conna Regional Water Supply Scheme Extension	W	2,627,000	Mileagh Wasteward Telement Plant Exercision	8	1,200,000
Cosk NE Water Supply Scheme	W	4,326,000	Wileagh Water Buggly Scheme (Includes Sewerage)	WB	495,000
Colk NW Regional Water Supply Scheme Milistreet Wastewster Treshment Plant (Upgrade)	W	8,046,000	Misers Sewerage Scheme	8	400,000
(No. 100 (No.	8	1,623,000	Mhaglasry Severage Schieme	8	694,000
			Molecon Valabrader Treatment Plant Extension	8	4000000

Cork County contd.

Water Services Investment Programme 2007 - 2009

Serviced Land Initiative contd.	Wis	est Cost	Schemes to Adverge through Planning cond.	W/5	Est. Co
Cork South contd.			Conk South		
Mogody Cartematyr & Ladystadge Vister Supply Schen	ne W	2,996,000	Carrigtwohl & Gewerage Scheme (G)	8	20,000,00
North Odth Severage Scheme (G)	8	3.193,000	Cork Sludge Management (G)	8	14,420,00
Riverside Visitor Buppty Scheme (Incl. Sewerage)	W/S	525,000	Cork Water Supply Scheme (Storage - Mount Emis.		
Rochestown Water Supply Scheme	W	2700,000	Ballincollig & Chetwind) (G)	w	8.500.00
Saloen Sewerage Boheme	8	1,051,000	Indiscans Water Treatment Plant (Sudje Treatment)		5,356,00
Youghal Water Supply Scheme	W	2300,000	Macroom Seworage Scheme	8	5,150,00
			Minane Bridge Water Supply Scheme	W	1,421,00
Cosk West				-	1,796.7,000
Castistownshand Sewerage Scheme	S	1,576,000	Cork West		
		50,797,000	Bantry Regional Water Supply Scheme (Distribution)	w	9,455,00
Rust Towns & Vilages Initiative			Cape Clear Water Supply Scheme	w	1,679,00
			Castidownbere Regional Water Supply Scheme	w	8,405,000
Cark North			Gerganiii Sewerage Scheme	s	2500 00
Buttovart Sewerage Schieme (Collection System)	8	2446,000	Rosesterny/Owenshinchs Sewerage Scheme	8	1,576,000
Danerale Sewerage Scheme (Calection System)	S	1,738,000	Subbersen Regional Water Supply Scheme Stage 4	W	7,880,00
					95,646,000
Cost South					94,040,161
Imishamon (Balinadee/Balimpitle/Garetabwn)			Water Conservation Allocation		*****
Water Supply Scheme	w	6726000			12,206,000
			Asset Managoral Stady		200.00
Cork West			NOT THE REAL PROPERTY.		300,000
Balyldy Severge Scheme	8	2153.000	South Western River Basin District (WFD) Project		
Baltimon Sewerge Scheme	8		South Western River Basin District (WFD) Project		9,400,000
Caridownbire Sewings Scheme	S	5.202.000 S	of de		
Schull Sewerage Scheme	8	్టల్ న	Programme Total	ADE	,489,000
		20,16	Togrania Ioan	403	,405,000
Schull Severage Scheme Schemes to Advence through Plenning Cosk North Mitchelstown North Galaces Vistor Supply Scheme Mitchelstown Severage Scheme Newmarket Severage Scheme 1 This project is being sed by Cosk Cost		m. do			
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Cook North	COL TO	S 0.			
Microstown North Galless Victor Supply Scheme	Sc. "02.	3152000			
Micheldown Severage Scheme	97	2000000			
Newmarket Sewarge Scheme	70	3.152.000			
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A STATE OF THE STA					
1 This project is being led by Cont Greatly Council	on behalf	of other author	xities in the River Basin District		
(H) Peters to a Hub as designated in the National					
(G) Platers to a Gateway as designated in the Nati	with obein	- SOURCY			

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CORK COUNTY COUNCIL
Comhairle Contae Chorcaí
Water Services South
County Hall
Carrigrohane Road
Cork

SUBMISSION TO ACHIEVE
COMPLIANCE WITH
REGULATION 24
OF THE
WASTE WATER DISCHARGE
(AUTHORISATION)
REGULATIONS 2007
FOR
Minane Bridge
(A0356-01)

March 2011

QUESTION 1 "ASSESS THE LIKELIHOOD OF SIGNIFICANT EFFECTS OF THE WASTE WATER DISCHARGE ON THE RELEVANT EUROPEAN SITES..."

1.0 Background

The Village of Minane Bridge is situated approximately 20km south of Cork City and 7km south of Carrigaline, on the main route to the coastal resorts of Robert's Cove and Rocky Bay. This settlement is a small centre for the rural hinterland.

Cork County Council South is the Water Services Authority serving Minane Bridge. The agglomeration boundary can be seen at Attachment A.1 of the revised certificate application. The population of the Minane Bridge agglomeration is approximately 150.

There are two separate collection/treatment systems in place in Minane Bridge. There is a waste water treatment plant within River Valley Housing Estate which was taken in charge by Cork County Council on 22nd November 2010. There is a septic tank serving Spruce Grove, which made up the original application in 2009. Please see Attachment A1 which highlights this information.

A gravity waste water collection system serves River Valley. There are no pumping stations within the collection system. There are no secondary discharges from the collection system. There are no storm overflows from the collection system. All waste water collected drains to the waste water treatment plant to the rear of the estate.

The waste water treatment plant at River Valley consists of a two stage extended biological filtration treatment process which is linked to a reed bed filtration system which ultimately leads to the primary discharge point. This system provides tertiary treatment. Full details on the operation of the treatment plant are provided in Section C of the revised application form. This details primary settlement, biological treatment and final settlement processes.

A gravity waste water collection system serves Spruce Grove. There are no pumping stations within the collection system. There are no secondary discharges from the collection system. There are no storm overflows from the collection system. All the waste water collected drains to the septic tank to the rear of the estate.

The septic tank provides primary treatment only. The primary treatment is achieved by settlement which according to the National Urban Waste Water Study (NUWWS) reduces BOD loading by approximately 30% and Suspended Solids by approximately 50%.

All treated effluent from the septic tank drains by gravity to a nearby soak pit where it discharges directly to groundwater. The soak pit is located approximately 75m from the Minane River. The Minane River flows into Ringabella Creek, which is located 5.0km outside the mouth of Cork Harbour (Roche's Point).

The agglomeration is not within or is not nearby any Natura 2000 site. The closest Natura 2000 site is Cork Harbour SPA. Minane Bridge is approximately 5km from Ringabella Creek. Ringabella Creek is approximately a further 5km from Roche's Point, the mouth to Cork Harbour.

1.1 Habitats Directive Assessment

The Habitats Directive 92/43/EEC is transposed into Irish Law under the European Union (Natural Habitats) Regulations SI 94/1997 (The Regulations). The Regulations require the assessment of all projects or plans that have the potential to impact on nature conservation sites, including SPAs. This assessment is referred to as a Habitats Directive Assessment. The purpose of a Habitats Directive Assessment is to identify potential impacts on nature conservation sites arising from a project or plan and to predict the effect of such impacts on the integrity of the sites.

The European Union has provided guidance on Habitats Directive Assessment which identifies four stages in the assessment process as follows:

- 1. Stage One Screening
 Screening identifies the likely impacts on a Natura 2000 site of a project or plan, whether alone or in combination with other projects or plans, and considers whether or nor these impacts are likely to be significant.
- 2. Stage Two Appropriate Assessment
 This assessment considers the impact on the integrity of the Natura 2000 site of a project or plan, either alone or in combination with other projects or plans, with respect to the site's structure and function and its conservation objectives. Additionally, where there are adverse impacts, the Appropriate Assessment considers the potential mitigation of those impacts.
- Stage Three Assessment of Alternative Solutions
 This assessment examines alternative ways of achieving the objectives of the project or plan that avoid adverse impacts on the integrity of the Natura 2000 site.
- 4. Stage Four Assessment Where No Alternative Solutions Exist and Where Adverse Impacts Remain
 This assessment considers compensatory measures, where in the light of an assessment of imperative reasons of overriding public interest, it is deemed that the project or plan should proceed.

This Submission brings together all of the information necessary to make determination as to whether or not there are likely to be significant impacts arising from the discharges from the Minane Bridge Agglomeration on the Minane Bridge Marsh proposed Natural Heritage Area (pNHA) and Cork Harbour SPA. A flow diagram in accordance with Appendix 1 of Circular Letter L8/08 is included at Appendix 1 of this Submission.

1.2 Stage One - Screening

Screening identifies the likely impacts on a Natura 2000 site of a project or plan, whether alone or in combination with other projects or plans, and considers whether or not these impacts are likely to be significant. Screening comprises of 5 steps as follows:

- Step One Description of Project or Plan
 Provide a description of the project or plan and other projects or plans that, alone or in combination, have the potential to have significant effects on Natura 2000 sites within the potential impact zone.
- Step Two Identification of Impacted Natura 2000 Sites
 Identify Natura 2000 sites which may be impacted by the project or plan, and compile information on their qualifying interests and conservation objectives.
- 3. Step Three Assessment Criteria.

 Determine whether the project or plan needs to be screened for potential impacts on Natura 2000 sites.
- Step Four Assessment of Likely Effects
 Carry out an assessment of likely effects direct, indirect and cumulative undertaken on the basis of available information as a desk study or field survey or primary research as necessary.
- Step Five Significance of Effects
 Assess the significance of any such effects on the Natura 2000 sites within the impact zone.

Steps 1 to 5 are presented as an Appropriate Assessment Screening Matrix below. This assessment has been prepared in accordance with the following guidance:

- European Commission (2000) Managing Natura 2000 sites: the provisions of Article 6 of the Habitats Directive 92/43/EEC;
- European Commission (2001) Assessment of plans and projects significantly affecting Natura 2000 sites: Methodological guidance on the provisions of Articles 6(3) and (4) of the Habitats Directive 92/43/EEC;
- Appropriate Assessment of Plans and Projects in Ireland. Guidance for Planning Authorities. Environment, Heritage and Local Government, 2009.

Step One - Description of Project or Plan				
Location	Minane Bridge, Co Cork.			
Description of the key components of the project	Minane Bridge Agglomeration is served by a Waste Water Treatment Plant at River Valley Housing Estate and Septic Tank at Spruce Grove Housing Estate. River Valley WWTP provides tertiary treatment by means of primary settlement, a two stage biological treatment process, final settlement and reed bed filtration, and discharges to surface water. The estimated daily discharge from the WWTP is 23m3/day.			
	Spruce Grove Septic Tank provides primary treatment. Treated effluent discharges to groundwater through a percolation area located 75m from the Minane River. The septic tank provides primary treatment only which according to the National Urban Waste Water Study (NUWWS) reduces the BOD load by approximately 30% and the Suspended Solids load by approximately 50%. On average approx. 6cu.m./day of effluent is discharged to the percolation area.			
Distance from designated sites in potential impact zone	The Minane River runs in an easterly direction downstream of Minane Bridge Village for approximately 5km before reaching coastal waters at Ringabella Creek. The receiving waters at Ringabella Creek are not deemed sensitive. Ringabella Creek as approximately 2.5km from Fountainstown Beach which is designated bathing waters. Fountainstown Seach is presently monitored in accordance with the Directive EU 76/160/EEC and the Quality of Bathing Water Regulations 1992 (SI 155/1992) and amendments. From the 2011 bathing season onwards (mid May to 31st August annually) the monitoring and reporting of bathing waters will commence under new legislation 'The Bathing Water Quality Regulations 2008 (SI No.79 of 2008 Directive 2006/7/EC)'.			
	Ringabella Creek is located approximately 5km outside the mouth of Cork Harbour (Roche's Point). The discharge point at Minane Bridge is approx. 10 Km distance from the mouth to Cork Harbour which contains a Special Protected Area (SPA). The primary discharge point is located at the downstream end of a proposed Natural Heritage Area (pNHA) called Minane Bridge Marsh – site code 001966. The location of the pNHA and primary discharge point is highlighted in			

Name	Minane Bridge Marsh Proposed Natural Heritage Area
Site Code	001966
Site Description	The Minane Bridge Marsh pNHA
	This is not a Natura 2000 Site, however is a proposed Natural Heritage Area, and has been noted as such.
	Discharge from the River Valley WWTP occurs at the downstream end of the pNHA.
	Spruce Grove Septic Tank discharges via a percolation area to groundwater, downstream of the pNHA and does not affect it.
	No bird count data was available for Minane Marsh. Data available in relation to Ringabella Creek forms Appendix II of this document and Attachment Section F1 of the revised Application Form (March 2011)
Qualifying Interests of Minane Bridge Marsh pNHA	None Tel IIsc.
Other Notable Features of Minane Bridge pNHA.	None None None To avoid deterioration of the habitats of and qualifying species and species of species of species of species and species are species of
Conservation Objectives	to these species thus ensuring that the integrity of the site is maintained.
	To ensure root the qualifying species and species of special conservation interest that the following are maintained in the long term: The population of the species as a viable component of the
	 The distribution and extent of habitats supporting the species; The structure, function and supporting processes of habitats supporting the species.

¹ Natura 2000 sites within the potential impact zone of the proposed development have been identified in accordance with guidance provided in the NPWS circular L8/08.

Name	Cork Harbour Special Protection Area
Site Code	4130
Site Description	The Cork Harbour SPA is an estuarine complex which is primarily comprised of intertidal habitats, mainly mudflats as well as some other coastal and marine habitats. These habitats support very high numbers of wintering waterfowl that feed on the macro invertebrates inhabiting the mudflats. The Harbour regularly supports in excess of 20,000 wintering birds, making it are internationally important site and the fifth most important wintering waterfowl site in the country.
	Discharges from the Minane Bridge Agglomeration occur approx 10km outside of Cork Harbour SPA. Any impacts on this SPA site from discharges at Minane Bridge are considered negligible.
Qualifying Interests of Cork Harbour SPA.	Internationally important numbers of Black-tailed Godwit and Redshank; Nationally important numbers of Cormorant, Shelduck, Oystercatcher, Golden Plover, Lapwing, Dunlin and Curlew; 20,000 wintering water birds. Source – National Parks and Wildlife Service
Other Notable Features of Cork Harbour SPA	Little Grebe, Great-crested Grebe, Grey Heron, Wigeon, Teal, Pintail, Shoveler, Red-breasted Merganser, Grey Plover, Black-headed Gull, Common Gull, Lesser Black-backed Gull, wetland and water birds. Source – National Parks and Wildlife Service. See Appendix III
Conservation Objectives	To avoid deterioration of the habitats of the qualifying species and species of special conservation interest, or significant disturbance to these species thus ensuring that the integrity of the site is maintained of the species and species of special conservation interest that the following are maintained in the long-term.
	 the population of the species as a viable component of the site; the distribution and extent of habitats supporting the species; the structure, function and supporting processes of habitats supporting the species;
	Source - National Parks and Wildlife Service

Step Three - Assessment Criteria Describe the elements of River Valley WWTP: the project likely to give 2. Spruce Grove Septic Tank. rise to impacts on the Natura 2000 site. Describe any likely direct, The agglomeration has a total population equivalent of 161. indirect or secondary The average daily output of the WWTP is estimated at 23cu. impacts of the project m/day. The maximum capacity of the WWTP is 50cu. m/day (either alone or in so at present the WWTP has not reached 50% capacity. The combination with other Septic Tank at Spruce Grove receives approx 6cu.m/day. plans or projects) on the Minane Bridge is located approx 10km outside the mouth of Natura 2000 site taking Cork Harbour which contains an SPA. Any impacts from the into account the following: discharges at Minane Bridge on Cork Harbour SPA are deemed Size and scale negligible. Land-take Discharges could give rise to elevated nutrients entering the Distance from the Minane River on the eastern end of the Minane Bridge Marsh Natura 2000 site or proposed Natural Heritage Area (pNHA). The primary key features of the discharge point for the agglomeration discharges on the site: northern side of the Minane River. The Minane River forms a Resource northern boundary to the Minane Bridge Marsh (please see requirements (water Attachment Map 10 in the revised certificate application for abstraction etc.) location details). Increased nutrient levels may impact on the ecology of an Emissions (disposal to land, water or air) area by changing the composition of floral communities and Excavation reducing the ability of less robust plants to survive. Increased Requirements nutrient levels may also result in increasing the invertebrate Transportation populations in the estuary thereby increasing bird population Requirements Duration of The combined impact of the above-listed WWTP (primary construction, discharge) on the proposed Natural Heritage Area may require an ecological assessment of the pNHA. This assessment has operation, decommissioning not been undertaken in the preparation of this Submission. Other. However, consideration is currently being given by Cork County Council to such an assessment. The primary discharge point is located upstream of the Minane Bridge Infiltration Gallery. The infiltration gallery can take up to approx. 98cu. m/day from groundwaters. The annual output of the infiltration gallery is approximately 25cu.m/day. Study of the infiltration gallery carried out by Geological Survey of Ireland note that 'water (is) drawn in from the stream, which lies just over 100metres south of the gallery. Given the small hydraulic head which the gallery develops, this is probably a negligible source of water to the gallery. This seems to be confirmed by the hydrochemistry of the water'. Furthermore the report adds: 'Subsurface flow from the hillside of the north of the gallery, plus shallow subsurface flow ('interflow') and surface runoff infiltrates into the ground at the foot of the slope. Since the gallery is orientated at right angles to the direction of this flow, it is optimally placed to intercept it. Hence it is expected that this source contributes most of the flow into the gallery'. The report later states that 'infiltration from the stream (Minane River) to the gallery is probably negligible'. The revised certificate application detailed the zones of contribution and inner protection zone for the infiltration gallery. Cork County Council took the River Valley WWTP in charge on 22nd November 2010. A proposed programme of improvement works for the WWTP based on items identified

and listed by Cork County Council forms Attachment G3 of the

revised application.

Describe any likely changes to the site arising as a result of:

- Reduction in habitat area
- Disturbance to key species
- Habitat or species fragmentation
- Reduction in species density
- Changes in key indicators of conservation value (water quality etc)
- Climate Change

Reduction in habitat area

Not significant.

Disturbance to key species

The operation of the Septic Tank does not cause any disturbance to any Natura Sites. The WWTP is located at the downstream end of Minane Bridge Marsh (pNHA) however the treatment process employed at the WWTP provides tertiary treatment. There are no key species listed at the pNHA.

Habitat or species fragmentation

No habitat fragmentation has been caused as a result of the operation of this facility.

Reduction in species density

No significant impacts are evident or predicted on species for which the SPA is designated.

Changes in key indicators of conservation value - e.g. water quality

The status of the section of the Minane River is "moderate". There has been no deterioration downstream of the discharges in this respect.

Climate Change

Not significant.

Describe any likely impacts on the Natura 2000 site as a whole in terms of:

- Interference with the key relationships that define the structure of the site
- Interference with key relationships that define the function of the site

Interference with the key relationships that define the structure of the site

The structure of the SPA is not impacted by the operation of this facility.

Interference with key relationships that define the function of the site

The function of the SPA is not impacted by the operation of this facility.

Describe from the above those elements of the project of plan, or combination of elements, where the above impacts are likely to be significant or where the scale or magnitude of impacts is not known.

Cork County Council took the WWTP in charge in November 2010. A programme of sampling is due to commence on the primary discharge point in 2011 with 6 samples to be taken and tested. These results will give a more accurate representation of the likely impacts of the WWTP. A screening programme has not been carried out to date on the plant under the Dangerous Substances Directive. This maybe necessary in order to assess the full impact of the WWTP. In addition a proposed programme of improvement works has been identified by Cork County Council (and forms Attachment G3 of the revised application form) and work should begin in remedying any defects noted, and upgrading the plant in 2011.

Name of project or plan	Minane Bridge Agglomeration
Name and location of Natura 2000 site	Cork Harbour SPA (over 10km from the discharge point) Primary Discharge Point within proposed Natural Heritage Area pNHA of Minane Bridge Marsh.
Description of the project or plan	Minane Bridge Agglomeration is served by a waste water treatment plant which provides tertiary treatment and discharges to Minane River, and a septic tank which provides primary treatment only which discharges to groundwater approx 75m from the Minane River.
Is the project or plan directly connected with or necessary to the management of the site (provide details)?	No
Describe how the project or plan (alone or in combination) is likely to affect the Natura 2000 Site.	Discharges from the River Valley WWTP could give rise to elevated nutrients within the pNHA (not a Natura 200 site). Increased nutrient levels may impact on the ecology of an area by changing the composition of floral communities and reducing the ability of less robust plants to survive. Increased nutrient levels may also result in increasing the invertebrate populations in the estuary, thereby increasing bird population levels. A programme of sampling is due to commence on the primary discharge point in 2013 with 6 samples to be taken and tested. These results will give a more accurate picture of likely affects.

Explain why these effects are not considered significant.	 Small quantities of effluent (max PE 161 current PE 133). 20% Effluent discharges to groundwater; 80% effluent undergoes tertiary treatment process. Dilution and assimilative capacities of Minane River and Cork Harbour; Minane River has ongoing "moderate" status; No significant impacts are evident or predicted on species for which the pNHA is designated. Negligible impacts of Cork SPA which is over 10km away. No Natura 2000 site in area.
List of agencies consulted: provide contact name and telephone or email address	National Parks and Wildlife Service; Birdwatch Ireland.
Response to consultation	Draft Conservation Objectives and a copy of Intention to Designate Cork Harbour as SPA was received previously from the NPWS; Bird count data was received previously from Birdwatch Ireland.

Who carried out the assessment	Sources of data	Level of assessment completed	Where can the full results of the assessment be accessed and viewed
Brendan O' Leary, Assistant Engineer, Water Services Operations, Cork County Council	Nation Parks & Wildlife Service Website; Birdwatch Ireland Website. Geological Survey of Ireland	Desktop review of cited data.	This Submission.

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QUESTION 2"CONFIRM THE DESIGN CAPACITY OF THE WASTE WATER TREATMENT PLANT ..."

The waste water treatment plant serving River Valley has a capacity of 250PE. It currently serves 28 houses with an estimated PE of 105. In addition conditional planning has been granted on a nearby site for 8 dwellings which could increase loading by an estimated 28PE – bringing a total possible future PE loading of 133 (53% of total capacity). This loading would still be below the capacity of the plant, so the plant would not be overloaded.

The septic tank was designed to treat waste water arising from 8 no. dwellings - i.e. a PE of 28. The current PE treated by the septic tank is estimated to be 28. The septic tank is therefore at capacity and not overloaded.

The current PE includes the maximum average weekly loading for the agglomeration having taken account of local festivals, peak holiday seasons, etc.

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QUESTION 3"PROVIDE A REVISED DRAWING CLEARLY DETAILING THE BOUNDARY OF THE AGGLOMERATION..."

Attachment Map 02 "Section A1 – Non-Technical Summary – Minane Bridge Location Map" has been revised to include all areas serviced by the sewer network as well as the newly taken in charge waste water treatment plant and existing septic tank. The revised drawing forms part of the revised Waste water application March 2011. The revised application details the treatment processes used at the treatment plant as well as proposed improvement programme of works to upgrade the plant.

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APPENDIX I

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Minane Bridge Flow Chart - A0356-01

Is the development in the surface water catchment of a nature conservation site (or part of such a site) – NO

Is the development in the surface groundwater catchment of other water dependent Annex II species, other rate of protected species or salmonid waters? – NO

No further action required

Consent of the consent of

APPENDIX II

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Appendix II - Ringabella Creek - Bird Numbers

Irish Wetland Bird Survey: Waterbird monitoring in Ireland

Location:	Ringabella Creek
Year	Bird Numbers
2001/02	1,377
2002/03	801
2003/04	976
2004/05	1,111
2005/06	954
2006/07	1,498
2007/08	1,195

Species occuring in significant numbers
Black Tailed Godwit

Thirty of the standard of the sta

17

APPENDIX III

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SITE SYNOPSIS

Site Name: Minane Bridge Marsh proposed Natural Heritage Area

Site Code: 001966

Minane Bridge Marsh **pNHA 1966** is located to the south west of Minane Bridge village. The area is listed for its unusual vegetation type which throughout much of the country has been drained. In November 2010 Cork County Council published the Carrigaline Electoral Area Local Area Plan Review. Within this review Cork County Council recognise that 'the village of Minane Bridge adjoins this environmental designation (the proposed Natural Heritage Area and)....any further expansion westwards will impact on the intactness of the designation'. Within the Local Area Plan Review (LAP Review) Cork County Council outlined the methodology behind carrying out various environmental studies while also underlining their commitments to environmental protection.

A habitat study has not been carried out on the Minane Bridge Marsh proposed Natural Heritage Area. No information is available at present detailing the species, flora or fauna specific to this area. It is not deemed a bird area of international or national importance. Ringabella Creek, 5km downstream of Minane Bridge is designated a nationally important site supporting > 1,000 waterbirds. The black tailed godwit has been spotted in nationally important numbers at Ringabella Creek, There has been no detrimental effect to this species numbers as a result of discharges from Minane Bridge.

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SITE SYNOPSIS

SITE NAME: CORK HARBOUR SPA

SITE CODE: 004030

Cork Harbour is a large, sheltered bay system, with several river estuaries – principally those of the Rivers Lee, Douglas and Owenacurra. The SPA site comprises most of the main intertidal areas of Cork Harbour, including all of the North Channel, the Douglas Estuary, inner Lough Mahon, Lough Beg, Whitegate Bay and the Rostellan inlet.

Owing to the sheltered conditions, the intertidal flats are often muddy in character. These muds support a range of macro-invertebrates, notably *Macoma balthica*, *Scrobicularia plana*, *Hydrobia ulvae*, *Nepthys hombergi*, *Nereis diversicolor* and *Corophium volutator*. Green algae species occur on the flats, especially *Ulva lactua* and *Enteromorpha* spp. Cordgrass (*Spartina* spp.) has colonised the intertidal flats in places, especially where good shelter exists, such as at Rossleague and Belvelly in the North Channel. Salt marshes are scattered through the site and these provide high tide roosts for the birds. Salt marsh species present include Sea Purslane (*Halimione portulacoides*), Sea Aster (*Aster tripolium*), Thrift (*Armeria maritima*), Common Saltmarsh-grass (*Puccinellia maritima*), Sea Plantain (*Plantago maritima*), Laxflowered Sea-lavender (*Limonium humile*) and Sea Arrowgrass (*Triglochin maritima*). Some shallow bay water is included in the site. Cork Harbour is adjacent to a major urban centre and a major industrial centre. Rostellan lake is a small brackish lake that is used by swans throughout the winter. The site also includes some marginal wet grassland areas used by feeding and roosting birds.

Cork Harbour is an internationally important wetland site, regularly supporting in excess of 20,000 wintering waterfowl, for which it is amongst the top five sites in the country. The five-year average annual core count for the entire harbour complex was 34,661 for the period 1996/97-2000/01. Of particular note is that the site supports an internationally important population of Redshank (1,614) - all figures given are average winter means for the 5 winters 1995/96-1999/00. A further 15 species have populations of national importance, as follows: Great Crested Grebe (218), Cormorant (620), Shelduck (1,426), Wigeon (1,750), Gadwall (15), Teal (807), Pintail (84), Shoveler (135), Red-breasted Merganser (90), Oystercatcher (791), Lapwing (3,614), Dunlin (4,936), Black-tailed Godwit (412), Curlew (1,345) and Greenshank (36). The Shelduck population is the largest in the country (9.6% of national total), while those of Shoveler (4.5% of total) and Pintail (4.2% of total) are also very substantial. The site has regionally or locally important populations of a range of other species, including Whooper Swan (10), Pochard (145), Golden Plover (805), Grey Plover (66) and Turnstone (99). Other species using the site include Bat-tailed Godwit (45), Mallard (456), Tufted Duck (97), Goldeneye (15), Coot (77), Mute Swan (39), Ringed Plover (51), Knot (31), Little Grebe (68) and Grey Heron (47). Cork Harbour is an important site for gulls in winter and autumn, especially

Common Gull (2,630) and Lesser Black-backed Gull (261); Black-headed Gull (948) also occurs.

A range of passage waders occur regularly in autumn, including Ruff (5-10), Spotted Redshank (1-5) and Green Sandpiper (1-5). Numbers vary between years and usually a few of each of these species over-winter.

The wintering birds in Cork Harbour have been monitored since the 1970s and are counted annually as part of the I-WeBS scheme.

Cork Harbour has a nationally important breeding colony of Common Tern (3-year mean of 69 pairs for the period 1998-2000, with a maximum of 102 pairs in 1995). The birds have nested in Cork Harbour since about 1970, and since 1983 on various artificial structures, notably derelict steel barges and the roof of a Martello Tower. The birds are monitored annually and the chicks are ringed.

Extensive areas of estuarine habitat have been reclaimed since about the 1950s for industrial, port-related and road projects, and further reclamation remains a threat. As Cork Harbour is adjacent to a major urban centre and a major industrial centre, water quality is variable, with the estuary of the River Lee and parts of the Inner Harbour being somewhat eutrophic. However, the polluted conditions may not be having significant impacts on the bird populations. Oil pollution from shipping in Cork Harbour is a general threat. Recreational activities are high in some areas of the harbour, including jet skiing which causes disturbance to roosting birds.

Cork Harbour has is of major ornithological significance, being of international importance both for the total numbers of wintering birds (i.e. > 20,000) and also for its population of Redshank. In addition, there are at least 15 wintering species that have populations of national importance, as well as a nationally important breeding colony of Common Tern. Several of the species which occur regularly are listed on Annex I of the E.U. Birds Directive, i.e. Whooper Swan, Golden Plover, Bar-tailed Godwit, Ruff and Common Tern. The site provides both feeding and roosting sites for the various bird species that use it.

APPENDIX IV

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Cork County Council, November 2010, Carrigaline Electoral Area Local Area Plan Review – Summary of Extracts

Introduction

Minane Bridge Marsh pNHA 1966 is located to the south west of Minane Bridge village. The area is listed for its unusual vegetation type which throughout much of the country has been drained. In November 2010 Cork County Council published the Carrigaline Electoral Area Local Area Plan Review. Within this review Cork County Council recognise that 'the village of Minane Bridge adjoins this environmental designation (the proposed Natural Heritage Area and)....any further expansion westwards will impact on the intactness of the designation'. Within the Local Area Plan Review (LAP Review) Cork County Council outlined the methodology behind carrying out various environmental studies while also underlining their commitments to environmental protection. The following are exerts from the Cork County Council's Carrigaline Electoral Area Local Area Plan Review, which relate to the Minane Bridge Agglomeration:

Ecological Networks

It is the intention of CCC to map areas of high biodiversity value and corridors. The ecological network approach promotes management of linkages between areas of high biodiversity value, between areas of high and low biodiversity value, between areas used by species for different functions and between local populations of different species. Corridors and linking areas can support migration, dispersal and daily movements. This process has begun with the Habitat Mapping programmes completed in Blarney and Carrigaline and recently begun in Midleton. The objectives of the Carrigaline Electoral District Habitat Survey and Mapping project are

- To carry out a survey of habitats within the Carrigaline Electoral district (ED);
- To map semi-natural habitats identified to level 111 of Fossitt (2000) classification scheme:
- To survey, map and provide supplementary information relating to all habitat listed on Annex 1 of the European union Habitats Directive 992/43/EEC) that occur within the survey area:
- To survey, map and provide supplementary information relating to sites of local biodiversity value and ecological corridors with the survey area;
- To provide a GIS database of habitat mapping and other data.

Many areas of local biodiversity value correspond to sites already designated by the Department of the Environment, Heritage and local Government as Special areas of Conservation (SACs), special protection areas for birds (SPAs) or proposed natural heritage areas (pNHAs). Ecological corridors linking high biodiversity areas were also identified. The conservation value and threats to areas of local biodiversity value were assessed in greater detail. Management recommendations were made to maintain or enhance the conservation value of areas of local biodiversity value. As most of the lands identified in the habitat survey database are in private ownership, achieving ecologically beneficial management will in many cases require a cooperative engagement with landowners.

Issues

Impacts on protected areas, European (e.g. Special areas of Conservation (SACs), Special Protection Areas (SPAs), Ramsar sites) and Nationally Designated Sites (e.g. Natural Heritage Areas (NHAs);

- · Impacts on flora and fauna including protected species
- · Impacts on sensitive habitats outside protected areas;
- · Protecting and enhancing biodiversity at a regional level;
- · Potential for habitat loss and fragmentation

Features of geological/geomorphologic interest

To date sites of geological interest have not been comprehensively covered by the existing nature conservation designations. This is currently being addressed by the Department of Environment Heritage and Local Government and the Geological Survey of Ireland who are drawing up a list of sites of geological interest that will be proposed as Natural Heritage Areas. The 2009 Cork County Development Plan identifies areas of geological interest in the county.

Site	Geological Interest	Location		
Fountainstown Creek to Ringabella Beach	Lower Carboniferought and	Ringabella Tn, Minane Bridge		

Potential Pressures on Water Quality

The principal suspected causes of less than satisfactory water in the state are discharges, principally of nutrients, from agricultural activities and from municipal wastewater treatment works. Industrial discharges, wastewater from unsewered properties and discharges from several other activities have also been identified as contributing. Action should concentrate in the first instance on these issues which pose the greatest threat to the water environment, but it is also important to address other possible sources of water pollution and impact, including issues such as water abstraction and physical modification and issues specific to the RBD.

The RBD Plans identify a programme of measures to protect and restore water status by addressing the main pressures (that is sources of pollution or status impact) in the district. Many of the measures are already provided for in national legislation and are being implemented. These include, for example, the Urban Waste Water Treatment Regulations 2001 to 2010 and the Good Agricultural Practice for the Protection of Waters Regulations of 2009. Other measures have been recently introduced (for example new Bathing Water Regulations, 2008) or are under preparation (for example proposed authorisation regulations for abstractions and physical modifications). The key measures include:

- · Control of urban wastewater discharges;
- · Control of unsewered waste water discharges;
- Control of agricultural sources of pollution;
- · Water pricing policy;

- Sub-basin management plans and programmes of measures for the purpose of achieving environmental water quality objectives for Natura 2000 sites designated for the protection of Freshwater Pearl Mussel populations;
- Pollution reduction programmes for the purpose of achieving water quality standards for designated shellfish waters; and
- · Control of environmental impacts from forestry.

Mapping of Environmental Sensitivities

Introduction

The following section explains how cumulative environmental sensitivity was identified and mapped. A composite map for the electoral area has been produced based on the environmental sensitivity data. Environmental sensitivities have been categorised in a range from robust (green) to vulnerable (yellow) to highly vulnerable (orange, red and dark red). It should be recognised that the impacts of cumulative developments causes a slow but measurable deterioration of environmental resources.

Methodology

This aim of the cumulative environmental sensitivity assessment and the resulting map is to present the sensitivities within the electoral area from a purely environmental point of view. The purpose in essence is to highlight highly witherable lands within the electoral area where proposed developments or small developments on an incremental scale could have significant environmental effects which would lead to conflict between development and the environment. However, the assessment has also identified environmentally robust areas where it is considered that the environmental capacity is greater. Vulnerable areas have also been identified and this categorisation lies between the above two. It is important to note that there may be individual environmental issues in lands that are designated as vulnerable or robust. Thus information provided in the baseline environment section of this Environmental Report should be examined to determine these issues as the baseline environment identifies and explores localised environment issues within these areas in more detail.

The environmental sensitivity assessment of this electoral area was provided through a GIS based evaluation of environmental sensitivities involving a number of analytical maps, which are weighted and overlapped to produce a combined Environmental Sensitivity Map (synthesis map) for the electoral area. The combined map indicates the range of environmental sensitivities in the electoral area and rates vulnerability from robust to highly vulnerable. For the purposes of the assessment of environmental sensitivities, 3 categories were identified i.e. robust

(green) to vulnerable (yellow) to highly vulnerable (orange and red). The darker the green the more robust the area is and the darker the red means that area is more vulnerable. For the assessment of environmental sensitivity, indicators were classified into 8 groups as follows:

- Biodiversity
- Population and Human Health
- Soil and Geology

- Water Resources
- Air and Climate
- Cultural Heritage
- Landscape
- Material Assets

Each of the above indicators was then divided into sub-indicators e.g. biodiversity is subdivided into SAC's, SPA's, NHA's and pNHA's.. For the purposes of the assessment of environmental sensitivity, indicators and their sub-indicators were allocated a certain weighting depending on their environmental importance. Figure 6.1 (Cumulative Assessment Indicators - Weighting) presents the weighting allocated to each indicator. The sum of the weighting of all 8 indicators is equal to one and the sum of all sub indicators under each of the individual indicators is also equal to one.

Figure 6.1. Cumulative Assessment Indicators - Weighting

- **BIODIVERSITY 21.97**
- POPULATION & HUMAN HEALTH 37.62
- SOIL & GEOLOGY 8.1

WATER RESOURCES 11.81

AIR & CLIMATE 11.81

CULTURAL HERITAGE 2.55

LANDSCAPE 1.64

MATERIAL ASSETS 4.5

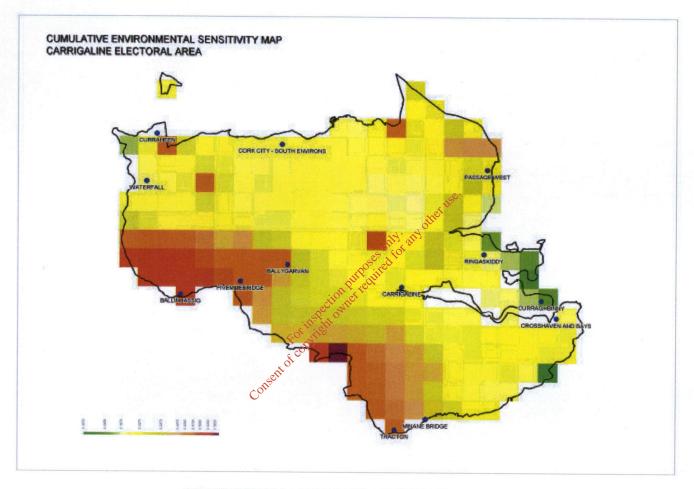
It is clear from the figure above that Population and Human Health has got a heavy weighting as two of the sub-indicators this last an appellation of the sub-indicators this last appearance of the sub-indicators the weighting as two of the sub indicators that were considered within this indicator were the availability of a municipal wastewater treatment plant and the availability of a public drinking water supply. Thus if both criteria were met then it is likely that the area in question will be more robust while areas do not have either will be more environmentally vulnerable. Biodiversity also gets a high rating due to the significance of Natura 2000 sites which are important at a European level.

The next figure (Figure 6.2) shows the 8 environmental indicators and sub indicators. Colour coding indicates the type of sub indicator i.e. protected areas under the WFD, performance indicators (e.g. achieving objectives under the River Basin District Management Plans).

Fig 6.2

BIODIVERSITY	POPULATION AND HUMAN HEALTH	SOIL AND GEOLOGY	WATER RESOURCES	AIR AND	CULTURAL HERITAGE	LANDSCAPE	MATERIAL ASSETS
SAC	Population growth	Sall Francistrativ	Surface and grandwerers wetter configurati	Amaze ty	Goelfocht greas	Londatope shorter	Quarries density
59A	PvAlid water supply amplets		Bathing water	Austic Transport	Protected structures	Scenic Landscapes	
NHA	Public Wasterestan appliebility		Guerall surface suster objectives				
PNHA	Drinking water		Oyenall grassideater objectives				
Freshwater Pearl mussel							
Nutrient sensitive proes							No. 1
Shellfish waters							
	protected areas driving force indicato pressure indicators state indicator performance indicators				14. of other us	ê.	

Map 6.6 presents the results of the assessment and it the Cumulative Environmental Sensitivity Map for the electoral area. It must be noted that this map represents the combining and overlapping of environmental receptors in the electoral area and thus will not highlight individual environmental issues within individual settlements. For example, it is clear from an examination of Map 60 that the area around the main towns are generally regarded as less sensitive as these settlements have municipal wastewater treatment and a public water supply. However Map 6.6 does not measure the performance or capacity of the wastewater treatment or quality of the drinking water in these settlements and these must be assessed separately using data from the environmental baseline. Overall this environmental sensitivity assessment highlights the need to make the best use of lands within the electoral area from an environmental perspective. However, in order to achieve this, areas of conflict within the electoral areas highly vulnerable lands must be determined. For the purposes of the LAP Environmental Report it was assumed that development pressure areas are the actual settlements within the electoral areas. Thus it is assumed that conflict will occur where settlements and highly vulnerable lands overlap. As stated previously, the individual environmental issues for the electoral area must also be taken into consideration as the environmental sensitivity map is only an assessment on a broad cumulative scale.



Map 6.6: Cumulative Environmental Sensitivity Map

Conclusion

Cork County Council have committed in the most recent Local Area Plan Review (November 2010) to identifying, assessing and safeguarding the environment across a range of areas such as biodiversity, material assets, water resources, air and climate etc. Cork County Council are actively engaging in carrying out environmental reviews across the County, with studies already beginning in the Carrigaline Electoral Area. The results of these studies are not yet known but will form the basis of future development plans with environmental issues being a primary concern.

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River Valley W.W.T.P. – Snag List

-	
1	The site on which the plant is located is overgrown and the waste material lying around the plant which should be removed. The site should be tidied up to provide safe access for the curator. A hardcore surface is required for vehicle parking. All vegetation within the perimeter of the treatment plant and close to circulation paths etc. for maintenance staff should be removed or cut back as it interferes with save movement of staff operating the plant. Paths should be provided where necessary.
2	Locks and keys should be provided for entrance gate and doors to control rooms to the Council's satisfaction. The same type of lock should be used throughout the facility so that it can be operated with a single key. (Note: total 6 no locks required.)
3	Some of the pipes within the waste water treatment plant are held in place with timber supports. All pipelines should be secured using galvanised steel supports and fittings as necessary.
4	The plywood covers (weighed down with cavity blocks) used as lids on the chambers of the treatment plant should be replaced with approved galvanised steel covers in accordance with the manufacturer's requirements. Galvanised steel covers are required for safety reasons and to minimise emission of odours.
5	A U.V. treatment unit should be installed upstream of the constructed wetland.
6	The inspection chamber near the discharge point should be rebuilt as directed on site.
7	The effluent outflow pipe should be fitted with a diffuser on the outlet, in order to maximise the mixing of effluent with the receiving river water. The effluent outflow pipe shall be fitted with a flow-meter and composite sampler at the discharge point following secondary treatment and before discharge to the wetlands or at a location agreed with the Licensing Authority. The flow meter shall be of the continuous recording and integrating type and composite sampler shall be flow proportionate. The sampler shall be capable of taking samples at a frequency to be agreed with the Licensing Authority making app to a composite sample once every 24 hours. This sampling and monitoring system shall be fully operational and in use at all times during which effluent is being discharged.
8	All pump sumps and other treatment plant chambers from which spillages might occur shall be fitted with 'high liquid level' alarms. The alarm condition shall be indicated by a signal on site and also, by a dial out modem, to the person responsible for the site.
	Control panels shall incorporate hours run meters for each individual unit. Containment areas around pump sumps shall be put in place and any spillages diverted to the effluent treatment plant. An alternative energy power supply shall be installed to augment the main power source in the event of a power failure on site unless alternative arrangements are agreed with the Licensing Authority.
9	A standby storage facility for untreated effluent shall be installed to accommodate untreated wastewater in the event of a malfunction, or, breakdown of the effluent treatment. Details of this facility shall be agreed with the Licensing Authority.

Agglomeration details

Leading Local Authority	Cork County Council	
Co-Applicants	Journal Country	
Agglomeration	Minane Bridge New	
Population Equivalent	161	
Level of Treatment	Secondary Treatment	
Treatment plant address	Waste Water Treatment Plant, River Valley Estate, Minane Bridge, Co. Cork	
Grid Ref (12 digits, 6E, 6N) EPA Reference No:	174107 / 056537 (Verifed using GPS)	

Contact details

Contact Name:	Patricia Power
Contact Address:	Water Services Cork County Council County Hall Carrigrohane Road of Cork.
Contact Number:	021-4276897
Contact Fax:	021-4276321
Contact Email:	patricia power@corkcoco.ie

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

Discharge Point Code: SW-1

Local Authority Ref No:	BOL/MINB/1209/1
Source of Emission:	WWTP serving 28 houses
Location:	Minane, Minane Bridge
Grid Ref (12 digits, 6E, 6N)	174107 / 056537 (Verifed using GPS)
Name of Receiving waters:	Minane River
Water Body:	River Water Body
River Basin District	South Western RBD
Designation of Receiving Waters:	Moderate
Flow Rate in Receiving Waters:	0 m³.sec-1 Dry Weather Flow 0 m³.sec-1 95% Weather Flow
Additional Comments (e.g. commentary on zero flow or other nformation deemed of value)	flow data for the Minane River was not available

Emission Details:

(i) Volume emitted		nd: of other	
Normal/day	23 m³	Maximum/day & 23 m³	
Maximum rate/hour	0.96 m ³	Period of emission 60 min/hr 24 hr/day 36 (avg)	65 day/yr
Dry Weather Flow	0.000266 m³/sec	(Gray) Cector first	

Table D.1(i)(b): EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of The Emission (Primary Discharge Point)

Discharge Point Code: SW-1

Substance	As discharged				
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day	
pH	рН	Grab	= 9	- 1.5	
Temperature	°C	Grab	The second secon		
Electrical Conductivity (@ 25°C)	µS/cm	Grab	= 25		
Suspended Solids	mg/l		= 1000		
Ammonia (as N)	TOTAL STATE OF THE	Grab	= 35	0.805	
Biochemical Oxygen Demand	mg/l	Grab	= 5	0.115	
Chemical Oxygen Demand	mg/l	Grab	= 25	0.575	
Total Nitrogen (as N)	mg/l	Grab	= 125	2.875	
Nitrite (as N)	mg/l	Grab	= 5	0.115	
Nitrate (as N)	mg/l	Grab	= 0	0	
	mg/l	Grab	= 0	0	
Total Phosphorous (as P)	mg/l	Grab	= 4		
OrthoPhosphate (as P)	mg/I	Grab	= 3	0.092	
Sulphate (SO ₄)	mg/l	Grab		0.069	
Phenols (Sum)	µg/l		= 0	0	
	149/1	Grab	= 0	0	

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45 μm filter paper For Phenols: 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 - Characteristics of The Emission (Primary Discharge Point)

Discharge Point Code: SW-1

Substance		As discharged				
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day		
Atrazine	μg/l	Grab	= 0			
Dichloromethane	µg/l	Grab		0		
Simazine	μg/l	Grab	= 0	0		
Toluene	μg/l		= 0	0		
Tributyltin	μg/l	Grab	= 0	0		
Xylenes		Grab	= 0	0		
Arsenic	µg/l	Grab	= 0	0		
Chromium	μg/l	Grab	= 0	0		
Copper	µg/l	Grab	= 0	0		
Cyanide	μg/l	Grab	= 0	0		
Flouride	μg/l	Grab	= 0	0		
Lead	µg/l	Grab	= 0	0		
	µg/l	Grab	= 0	0		
Nickel	µg/l	Grab	= 0	0		
Zinc	µg/I	Grab	= 0	0		
Boron	μg/l	Grab	= 0 . = 0 V ²			
Cadmium	μg/l	Grab	***	0		
Mercury	µg/l	Grab 14. 0	= 0	0		
Selenium	µg/l	Grab Grab Grab Grab Grab Grab Grab Grab	= 0	0		
Barium	µg/l	Grab OS 200	-0	0		
	LP3"	Glau G. To	= 0	0		

Table D.1(ii)(a): EMISSIONS TO SURFACE/GROUND WATERS (Secondary Discharge Point)

Discharge Point Code: GW-2

Local Authority Ref No:	BOL/MINB/1209/		
Source of Emission:	Septic tank serving 8 houses		
Location:	Laharran, Minane Bridge		
Grid Ref (12 digits, 6E, 6N)	174490 / 056690 (Verifed using GPS)		
Name of Receiving waters:	Minane River		
Water Body:	Ground Water Body		
River Basin District	South Western RBD		
Designation of Receiving Waters:	Moderate		
Flow Rate in Receiving Waters:	0 m³.sec-1 Dry Weather Flow 0 m³.sec-1 95% Weather Flow		
Additional Comments (e.g. commentary on zero flow or other nformation deemed of value)	flow data for the Minane River was not available		

Emission Details:

(i) Volume emitted		1. A affect
Normal/day	5 m ³	Maximum/day 6.75 m³
Maximum rate/hour	0.28125 m ³	Period of emission 60 min/hr 24 hr/day 365 day/yı (avg)
Dry Weather Flow	5.787E-05 m³/sec	e ctito in the
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Table D.1(ii)(b): EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of The Emission (Secondary Discharge Point)

Discharge Point Code: GW-2

Substance	As discharged				
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day	
рН	рН	Grab	= 9		
Temperature	°C	Grab			
Electrical Conductivity (@ 25°C)	µS/cm		= 25		
Suspended Solids		Grab	= 1000		
Ammonia (as N)	mg/l	Grab	= 35	0.23625	
Biochemical Oxygen Demand	mg/l	Grab	= 5	0.003375	
Chemical Oxygen Demand	mg/l	Grab	= 25	0.16875	
Total Nitrogen (as N)	mg/l	Grab	= 125	0.84375	
	mg/l	Grab	= 0	0.04373	
Nitrite (as N)	mg/l	Grab	= 0		
Nitrate (as N)	mg/l	Grab	= 0	0	
Total Phosphorous (as P)	mg/l	Grab		0	
OrthoPhosphate (as P)	mg/l	Grab	= 4	0.027	
Sulphate (SO ₄)	The state of the s		= 3	0.0205	
Phenols (Sum)	mg/l	Grab	= 0	0	
	μg/l	Grab	= 0	0	

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper For Phenols: 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 - Characteristics of The Emission (Secondary Discharge Point)

Discharge Point Code: GW-2

Substance		As discharged				
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day		
Atrazine	μg/l	Grab				
Dichloromethane	μg/l		= 0	0		
Simazine		Grab	= 0	0		
Toluene	μg/l	Grab	= 0	0		
Tributyltin	μg/I	Grab	= 0	0		
Xylenes	μg/l	Grab	= 0	0		
Arsenic	µg/l	Grab	= 0	0		
Chromium	μg/l	Grab	= 0	0		
	µg/l	Grab	= 0	0		
Copper	μg/l	Grab	= 0	100		
Cyanide	μg/l	Grab	= 0	0		
Flouride	μg/l	Grab	= 0	0		
Lead	µg/l	Grab		0		
Nickel	μg/l	Grab	= 0	0		
Zinc	μg/l		= 0	0		
Boron		Grab	= 0 .0.	0		
Cadmium	μg/l	Grab	= U	0		
Mercury	µg/l	Grab	€ 0	0		
Selenium	µg/l	Grab Grab Grab Grab Grab Grab Grab	= 0	0		
arium	µg/l	Grab & CO	= 0	0		
MIMIL	μg/l	Grab of the	= 0	0		

TABLE E.1(i): WASTE WATER FREQUENCY AND QUANTITY OF DISCHARGE – Primary and Secondary Discharge Points

Identification Code for Discharge point	Frequency of discharge (days/annum)	Quantity of Waste Water Discharged (m³/annum)	
SW-1	365		
GW-2		8395	
	365	1825	

Consent of copyright owner reduced for any other use.

TABLE E.1(ii): WASTE WATER FREQUENCY AND QUANTITY OF DISCHARGE – Storm Water Overflows

Identification Code for Discharge			
point Code for Discharge	Frequency of discharge (days/annum)	Quantity of Waste Water Discharged (m³/annum)	Complies with Definition of Storm Water Overflow

Consent of copyright owner required for any other use.

TABLE F.1(i)(a): SURFACE/GROUND WATER MONITORING

Primary Discharge Point

Discharge Point Code:	SW-1
MONITORING POINT CODE:	aSW-1d
Grid Ref (12 digits, 6E, 6N)	174786 / 056914

Parameter	Results (mg/l)			Sampling method	Limit of Quantitation	Analysis method /
	22/10/09	V-1-1-1				technique
рН	= 7.4			Grab	2	Electrochemic
Temperature	= 0					al
				Grab	0.5	Electrochemic
Electrical Conductivity (@ 25°C)	= 186			Grab	0.5	al
Suspended Solids	= 33			Grab	0.5	Electrochemic
Ammonia (as N)	= 0.1			Grab	0.5	Gravimetric
Biochemical Oxygen Demand				Grab	0.02	Colorimetric
Diconemical Oxygen Demand	= 8			Grab	0.06	Electrochemic
Chemical Oxygen Demand	= 47			- 60.	100	al
100000000000000000000000000000000000000				Grab	8	Digestion & Colorimetric
Dissolved Oxygen	= 0			Grab	0.2	ISE
Hardness (as CaCO ₃)	= 0		मीर्थ थारी	Grab	1	
Total Nitrogen (as N)	= 3.76		es 350	Grab	0.5	Titrimetric
Nitrite (as N)	= 0.1		1005 tred	Grab	0.5	Digestion & Colorimetric
Nitrate (as N)	= 1.47		In Soft	Grab	0.1	Colorimetric
Total Phosphorous (as P)		- ction	er	Grab	0.5	Colorimetric
OrthoPhosphate (as P)	= 0.308	For inspection		Grab	0.2	Digestion & Colorimetric
7/12/14/14/14/14/14/14/14/14/14/14/14/14/14/	= 0.13	FORNITE		Grab	0.02	Colorimetric
Sulphate (SO ₄)	< 30	£ 001		Grab	30	Turbidimetric
Phenols (Sum)	= 0	ŏ,0'		Grab	0.1	GC-MS2

Additional Comments:	

TABLE F.1(i)(b): SURFACE/GROUND WATER MONITORING (Dangerous Substances)

Primary Discharge Point

Discharge Point Code:	SW-1
MONITORING POINT CODE:	aSW-1d
Grid Ref (12 digits, 6E, 6N)	174786 / 056914

Parameter		Sampling method	Limit of Quantitation	Analysis method /	
	22/10/09				technique
Atrazine	= 0				
Dichloromethane	= 0		Grab	0.96	HPLC
Simazine	= 0		Grab	1	GC-MS1
Toluene	= 0		Grab	0.01	HPLC
Tributyltin	= 0		Grab	0.02	GC-MS1
Xylenes	= 0		Grab	0.02	GC-MS1
Arsenic	= 0		Grab	1	GC-MS1
Chromium	< 20		Grab	0.96	ICP-MS
Copper	< 20		Grab	20	ICP-OES
Cyanide	= 0		Grab	20	ICP-OES
louride	= 84		Grab	5	Colorimetric
.ead	< 20		Grab	100	ISE
Nickel	< 20	- All	Grab Grab	20	ICP-OES
Zinc	< 20	الم	Grab	20	ICP-OES
Boron	= 66.3	NO HEE	Grab	20	ICP-OES
Cadmium	< 20	The soli	Grab	20	ICP-OES
Mercury	= 0	eti ^O ne)	Grab	20	ICP-OES
elenium	= 0	Fed High owner countries to the countries of the countrie	Grab	0.2	ICP-MS
arium		Cot Triols	Grab	0.74	ICP-MS
arram	< 20	100	Grab	20	ICP-OES

Additional Comments:

TABLE F.1(i)(a): SURFACE/GROUND WATER MONITORING

Primary Discharge Point

Discharge Point Code:	SW-1
MONITORING POINT CODE:	aSW-1d 2
Grid Ref (12 digits, 6E, 6N)	174786 / 056914

	Results (mg/l)			Sampling method	Limit of Quantitation	Analysis method /
	01/01/09	22/10/09				technique
pH		= 7.4		Grab	2	Electrochemic
Temperature		= 0		Grab	0.5	Electrochemic
Electrical Conductivity (@ 25°C)		= 186		Grab	0.5	Electrochemic
Suspended Solids		= 33		Grab	0.5	al
Ammonia (as N)		= 0			0.5	Gravimetric
Biochemical Oxygen Demand		= 0		Grab	0.2	Colorimetric
Chemical Oxygen Demand				Grab	0.06	Electrochemic
		= 47		Grab	8	Digestion &
Dissolved Oxygen	= 0			Grab	0.2	Colorimetric
lardness (as CaCO ₃)	= 0		वीर्र भारे	Grab		ISE
otal Nitrogen (as N)		= 3.76	050,50	Crab	1	Titrimetric
litrite (as N)		-0.1	100 stred	Grab	0.5	Digestion & Colorimetric
itrate (as N)		= 0.1	of the contract of the contrac	Grab	0.1	Colorimetric
otal Phosphorous (as P)		= 1.47	citane	Grab	0.5	Colorimetric
		= 0.308	insperior representation of the service of the serv	Grab	0.2	Digestion & Colorimetric
rthoPhosphate (as P)		= 0.13	Wite	Grab	0.02	
ulphate (SO ₄)		< 30	3,	Grab	30	Colorimetric
nenols (Sum)		= 0		Grab	0.1	Tubridmetric GC-MS2

Additional Comments:	Default of 01/01.09 and 0 whee results are not available
	and the dvallable

TABLE F.1(i)(b): SURFACE/GROUND WATER MONITORING (Dangerous Substances)

Primary Discharge Point

Discharge Point Code:	SW-1	
MONITORING POINT CODE:	aSW-1d 2	
Grid Ref (12 digits, 6E, 6N)	174786 / 056914	

Parameter		Results (μg/l)			Limit of Quantitation	Analysis method /
	01/01/09	22/10/09				technique
Atrazine	= 0					
Dichloromethane	= 0			Grab	0.96	HPLC
Simazine	= 0			Grab	1	GC-MS1
Toluene	= 0			Grab	0.01	HPLC
Tributyltin	= 0			Grab	0.02	GC-MS1
Xylenes	= 0			Grab	0.02	GC-MS1
Arsenic	= 0			Grab	1	GC-MS1
Chromium	- 0	- 00		Grab	0.96	ICP-MS
Copper		< 20		Grab	20	ICP-OES
Cyanide	-0	< 20		Grab	20	ICP-OES
Flouride	= 0			Grab	5	Colorimetri
.ead		= 84		Grab	100	ISE
Vickel		< 20	ally of	Grab	20	ICP-OES
Zinc		< 20	es for	Grab	20	ICP-OES
Boron		< 20	200 itel	Grab	20	ICP-OES
Cadmium		= 66.3	2 Sin Section	Grab	20	ICP-OES
		< 20	A Trafe dio Ante	Grab	20	ICP-OES
Mercury	= 0		SPO ON	Grab	0.2	ICP-MS
elenium	= 0		N Tagli	Grab	0.74	ICP-MS
arium		< 20	00%	Grab	20	ICP-IVIS

		v en
Additional Comments:	a Office	

TABLE F.1(ii)(a): SURFACE/GROUND WATER MONITORING

Secondary Discharge Point

Discharge Point Code:	GW-2	
MONITORING POINT CODE:	aGW-2d	
Grid Ref (12 digits, 6E, 6N)	174786 / 056914	

Parameter		Results (mg/l)	Sampling method	Limit of Quantitation	Analysis method /
	22/10/09				technique
рН	= 7.4		Grab	2	Electrochemic
Temperature	= 0				al
			Grab	0.5	Electrochemic
Electrical Conductivity (@ 25°C)	= 186	1514 1	Grab	0.5	al
Suspended Solids	= 33		Grab	0.5	Electrochemic
Ammonia (as N)	= 0		Grab	0.5	Gravimetric
Biochemical Oxygen Demand	= 0		Grab	0.2	Colorimetric
		A - 17 P	Grab	0.06	Electrochemic
Chemical Oxygen Demand	= 47		Grab	8	al Digestion &
Dissolved Oxygen	= 0		Net .		Colorimetric
Hardness (as CaCO ₃)	= 0		Grab	0.2	ISE
Total Nitrogen (as N)	= 3.76		Offic di Grab	1	Titrimetric
Nitrite (as N)		and the second s	Grab	0.5	Digestion & Colorimetric
Nitrate (as N)	= 0.1	Tolk Edit	Grab	0.1	Colorimetric
Total Phosphorous (as P)	= 1.47	cit ^{Ot} ne	Grab	0.5	Colorimetric
	= 0.308	Forting to the feet of the fee	Grab	0.2	Digestion & Colorimetric
OrthoPhosphate (as P)	= 0.13	FORMER	Grab	0.02	Colorimetric
Sulphate (SO ₄)	< 30	S COL	Grab	30	Tubridmetric
Phenois (Sum)	= 0	ansent o	Grab	0.1	GC-MS2

Additional Comments:	Default of 04/04 00 and 0
Commonts.	Default of 01/01.09 and 0 whee results are not available

TABLE F.1(ii)(b): SURFACE/GROUND WATER MONITORING (Dangerous Substances)

Secondary Discharge Point

Discharge Point Code:	GW-2	
MONITORING POINT CODE:	aGW-2d	
Grid Ref (12 digits, 6E, 6N)	174786 / 056914	

Parameter	Results (µg/l)			Sampling method	Limit of Quantitation	Analysis method /
	01/01/09	22/10/09				technique
Atrazine	= 0			0.1		
Dichloromethane	= 0			Grab	0.96	HPLC
Simazine	= 0			Grab	1	GC-MS1
Toluene	= 0			Grab	0.01	HPLC
Tributyltin	= 0			Grab	0.02	GC-MS1
Xylenes	= 0			Grab	0.02	GC-MS1
Arsenic	= 0			Grab	1	GC-MS1
Chromium	- 0	- 00		Grab	0.96	ICP-MS
Copper		< 20		Grab	20	ICP-OES
Cyanide	= 0	< 20		Grab.	20	ICP-OES
Flouride	= 0			Grab	5	Colorimetric
_ead		= 84		Grab	100	ISE
Nickel		< 20	39.	Grab	20	ICP-OES
Zinc		< 20	Solfot	Grab	20	ICP-OES
Boron		< 20	os red	Grab	20	ICP-OES
Salar		= 66.3	DINEQUI	Grab	20	ICP-OES
Cadmium		< 20	tion of the	Grab	20	ICP-OES
Mercury	= 0		TOD THE COUNTY TECHNICAL TO THE COUNTY TECHNICAL TECHNIC	Grab	0.2	ICP-MS
elenium	= 0		cition dist	Grab	0.74	ICP-MS
arium		< 20	ONIT	Grab	20	ICP-MS

Additional Comments:	ent	
Additional Comments.	2015	
	<u> </u>	

Annex 2: Check List For Regulation 16 Compliance

Regulation 16 of the waste water discharge (Authorisation) Regulations 2007 (S.I. No. 684 of 2007) sets out the information which must, in all cases, accompany a discharge licence application. In order to ensure that the application fully complies with the legal requirements of regulation 16 of the 2007 Regulations, all applicants should complete the following.

In each case, refer to the attachment number(s), of your application which contains(s) the information requested in the appropriate sub-article.

in t	ne case of an application for a waste water discharge licence, the application shall -	Attachment Number	Checked by Applica
(a)	give the name, address, telefax number (if any) and telephone number of the applicant (and, if different, of the operator of any treatment plant concerned) and the address to which correspondence relating to the application should be sent and, if the operator is a body corporate, the address of its registered office or principal office,	App Form B1/B2	Yes
(b)	give the name of the water services authority in whose functional area the relevant applicant,	App Form B1/B2	Yes
(c)	give the location or postal address (including where appropriate, the name of the townland or townlands) and the National Grid reference of the location of the waste water treatment plant and/or the waste water discharge point or points to which the application relates,		Yes
(d)	state the population equivalent of the agglomeration to which the application relates,		
(e)	Specify the content and extent of the wests water it.	161	Yes
	The are now and type of discharge.	App Form C1	Yes
(f)	give details of the receiving water body, including its protected area status, if any, and details of any sensitive areas or protected areas or both in the vicinity of the discharge point or points likely to be affected by the discharge concerned, and for discharges to ground provide details of groundwater protection schemes in place for the receiving water body and all associated hydrogeological and geological assessments related to the receiving water environment in the vicinity of the	App Form F1	Yes
g)	identify monitoring and sampling points and indicate proposed arrangements for the monitoring of discharges and, if Regulation 17 does not apply, provide details of the likely environmental consequences of any such discharges,	App Form F1 & G1	Yes
1)	in the case of an existing waste water treatment plant, specify the sampling data pertaining to the discharge based on the samples taken in the 12 months preceding the making of the application,		Yes
)	describe the existing or proposed measures, including emergency arccedures, to prevent unintended waste water discharges and to minimise the impact on the environment of any such discharges,	App Form F1 & G1	Yes
	give particulars of the nearest downstream drinking water abstraction point or points App Form &		Yes
)	give details, and an assessment of the effects, of any existing or proposed emissions on the environment, including any environmental medium other than those into which the emissions are, or are to be made, and of proposed measures to prevent or eliminate or, where that is not practicable, to limit any pollution caused in such discharges,	App Form F1 & G1	Yes
		App Form G1	Yes
)	a timeframe and schedule for such work.	App Form & Attachment G1	Yes
aula	Any other information as may be stipulated by the Agency.	App Form & Attachments	Yes
hou	t prejudice to Regulation 16 (1) and (2), an application for a licence shall be	Attachment Number	Checked by Applicant
		Not Applicable	Yes
	where appropriate, a copy of the notice given to a relevant water services authority	lot Applicable	Yes
(1)		s Described below	Yes
(i)		lot Applicable	Yes
ii)		ection E	Yes
	such fee as is appropriate having regard to the provisions of Regulations 38 and 39. A	ttachment B8	Yes

WWD Licence Application Annex II

doc or o	gulation 16(4) original application shall be accompanied by 2 copies of it and of all accompanying cuments and particulars as required under Regulation 16(3) in hardcopy or in an electronic ther format as specified by the Agency.	Attachment Number	Checked by Applican
1	An Original Application shall be accompanied by 2 copies of it and of all accompanying documents and particulars as required under regulation 16(3) in hardcopy or in electronic or other format as specified by the agancy.	Application Form, Attachments & CD RO	Yes
For	the purpose of paragraph (4), all or part of the 2 copies of the said application and ociated documents and particulars may, with the agreement of the Agency, be submitted in electronic or other format specified by the Agency.		Checked by Applicant
2	Signed original.	Not Applicable	Yes
46.0	2 hardcopies of application provided or 2 CD versions of application (PDF files) provided.	Not Applicable	Yes
3	1 CD of geo-referenced digital files provided.	Not Applicable	
Whe subjeto 20 resp state	ulation 17 re a treatment plant associated with the relevant waste water works is or has been est to the European Communities (Environmental Impact Assessment) Regulations 1989 101, in addition to compliance with the requirements of Regulation 16, an application in est of the relevant discharge shall be accompanied by a copy of an environmental Impact may be submitted in an electronic or other format specified by the Agency	Attachment Number	Yes Checked by Applicant
1	EIA provided if applicable	Not Applicable	V
2	2 hardcopies of EIS provided if applicable.	Not Applicable	Yes
	2 CD versions of EIS, as PDF files, provided.	Not Applicable	Yes
Regu	lation 24	Attachment Number	Yes
ppli	case of an application for a waste water discharge certificate of authorisation, the	Attachment Number	Checked by Applicant
a)	give the name, address, telefax number (if any) and telephone number of the applicant and the address to which correspondence relating to the application should be sent and, if the operator of the waste water works is a body corporate, the address of its registered office or principal office	App Form B1/B2	Yes
)	give the name of the water services authority in whose functional area the relevant waste water discharge takes place or is to take place, if different from that of the applicant,	App Form B1/B2	Yes
c)	give the location or postal address (including where appropriate, the name of the townland or townlands) and the National Grid reference of the location of the discharge point or points to which the application relates.	App Form B3, B4	Yes
)	state the population equivalent of the agglomeration to which the application relates	161	
)	in the case of an application for the review of a certificate, specify the reference number given to the relevant certificate in the register,	A0356-01	Yes Yes
	specify the content and extent of the waste water discharge the	App Form C1	Yes
)	give details of the receiving water body, its protected as a		
)	points or likely to be affected by the discharge concerned	App romit ra Gr	Yes
,	discharges,	App Form E4	Yes
	application,	App Form Section E & F	Yes
	describe the existing or proposed measures, including emergency procedures, to prevent unauthorised or unexpected waste water discharges and to minimise the impact on the environment of any such discharges,	App Form & Attachment	Yes
	give particulars of the location of the nearest downstream drinking water abstraction point or points to the discharge point or points associated with the water water and the point of points associated with the water water and the point of	App Form F1 & G1	Yes
	191VC UCIDIIS OF ANY DESIGNATION Under only Course! D	app Form F1 & G1	Yes
	give details of compliance with any applicable with it	pp Form F1 & G1	Yes
	give details of any work necessary to most relevant.		Yes
	give any other information as may be stipulated by the Agency, and	pp Form and	Yes
	be accompanied by such fee as is appropriate beginning.	ttachments	
	be accompanied by such fee as is appropriate having regard to the provisions of Regulations 38 and 39.	ttachment B8	Yes