EO Regulations Assessment Template: Licence Examination Report 2010

Examiners Name:	Michelle	Purall		
Date of examination:	26/11/10			
Waste/IPPC Licence Register No.:	W0017-02	j		
Licensee:	Limerick	Courty Cour	ncil	
Location (Site) Address:	Conte d min	a Belletak	Il Ca- Linguise	
Class(es) of Activity EPA/WA licensed: Note 1	3rd schodile	classes: 1,5,6,	7,11 a13 4,9,10,11,12 d13	
Date of Issue of licence:	21/12/09		, ()	
Note 1 This should identify the class of		eed in the original First Sc es to WMA 1996.	hedule to EPA Act and Third and Fourth	
Follow Schedule A Decision Trees to Surface Water and to Groundwater				
I have carried out ar	n examination of thi	s licence and I recommend	d the following action.	
		Yes	No	
Licence complies with EO GW Regs requirements and a declaration can be issued to that effect.				
Licence complies with EO SW Regs requirements and a declaration can be issued to that effect.		H 16/3/11	4	

Note 1:See attached Schedule A for standard conditions wording. Where the existing wording can be taken to meet the objectives of the wording in Schedule A it can be taken as compliant.

Licence does not comply with the requirements of the EO GW Regs, Licence can be brought into compliance with a technical amendment and insertion of conditions identified in Part 2 above.	
Licence does not comply with the requirements of the EO SW Regs, Licence can be brought into compliance with a technical amendment and insertion of conditions identified in Part 2 above.	
Licence does not comply with the requirements of the EO GW Regs and having regard to the degree of noncompliance a full-scale review is considered appropriate.	
Licence does not comply with the requirements of the EO SW Regs and having regard to the degree of noncompliance a full-scale review is considered appropriate.	

Comments:

Licence requires conteminated SW to be diverted to a Stormwater settling pond I holding ponds. Thinggar level for Ammonia on for water entering the Stormwater settling pond. No SW shall be discharged when any thingger level is exceeded Discharge is to be white River. Licence also states that theated leachable is permitted to be discharged to

The while River but only when the discharge meets

ELVs, the flow in the river is 750 litres per second

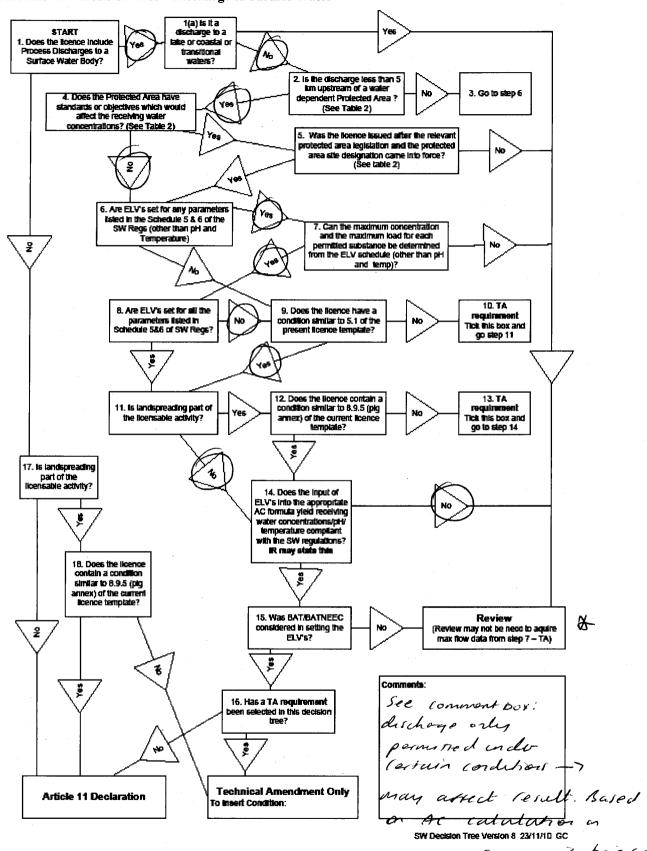
and there are 7 40 dilutions in the recienting water.

The while River russ through the Stack's to Mullaghareisk

Mountains West SPA (code: 004161).

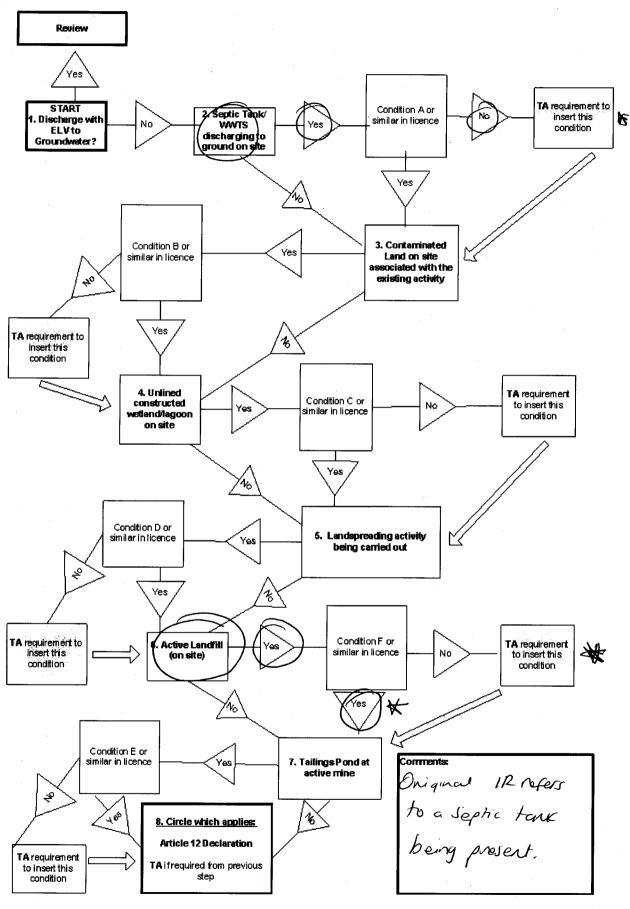
Al- no data for only its monitoring station. Also no uls hydrometric station. See results attached.

Schedule A Decision Tree - Discharge to Surface Water



review it triggered.

Decision Tree - Discharge to Groundwater



Page 4 of 6

Condition is not -> TA.

List of Conditions

A	On-site Wastewater Treatment Systems	The licensee shall provide and maintain a Wastewater Treatment plant at the facility/installation for the treatment of sanitary effluent arising on-site. Any waste water treatment system and any percolation area shall satisfy the criteria set out in the Wastewater Treatment Manual, Treatment Systems for Single Houses, published by the Environmental Protection Agency. Note this condition may alternatively refer to Wastewater Treatment Manuals – Treatment Systems for Small Communities, Business, Leisure Centres and Hotels.
В	Contaminated Land associated with existing activity	In licence, condition may read similar to: The licensee shall, within twelve months of date of grant of this licence, arrange for the carrying out, by an appropriately qualified consultant/professional, of a comprehensive hydrogeological investigation of the site. The scope, detail and programme, including report structure and reporting schedule, for this investigation must be agreed by the Agency prior to implementation. Any recommendations arising from a report or reports on this investigation must be implemented within such a period to be agreed by the Agency.
С	Unlined Constructed Wetlands	Ambient monitoring will require groundwater monitoring in the vicinity of the unlined constructed wetland/lagoons. Including parameters Phosphorus and Nitrogen.
D	Landspreading (Similar to Condition 8.9.5 (pig annex) of current licence template)	In licence the condition may read similar to the following: Landspreading shall, as a minimum, be carried out in accordance with S.I. No. 101 of 2009 European Communities (Good Agricultural Practice for Protection of Waters) Regulations 2009. All landspreading activities shall be carried out in such a manner as to avoid contamination of surface waters and groundwaters, and so as to minimise odour nuisance. Note this condition may alternatively refer to earlier GAP Regulations
E	Landfill	In licence Schedule C.6 Ambient monitoring will require groundwater monitoring and include relevant hazardous parameters. Licence conditions may read similar to the following: Within three months of the date of grant of this licence, the licensee shall submit to the Agency for its agreement, groundwater monitoring trigger levels in accordance with the requirements of Directive 1999/31/EC, Directive 2000/60/EC, Directive 2006/118/EC and the European Communities Environmental Objectives (Groundwater) Regulations 2010
F	Tailings Pond at Active Mine	In licence Schedule C.6 Ambient monitoring will require groundwater monitoring and include relevant hazardous parameters or the licence may require specific groundwater monitoring of the tailings management facility.

		Licence conditions may read similar to the following: Groundwater adjacent to the TMF shall be monitored as set out in Schedule 3(iii) Monitoring of Tailings Management Facility of this licence.
N/A	Condition 5.1 of current licence template	No specified emission from the installation/facility shall exceed the emission limit values set out in <i>Schedule B: Emission Limits</i> , of this licence. There shall be no other emissions of environmental significance.

Signed Michell Percell

Date 10/01/11

Reg. No.

W0017-04 Limerick County Council

Licensee Name:

Instruction: Fill in yellow boxes only

C downstream=(F river 95* C back) + (F effluent * C effluent)/ (F river 95 + F effluent)

C downstream -Downstream concentration in receiving water (mg/l)

F river 95 - upstream receiving fiver flow, 95 percentile flow (m3/s)

C back - background/upstream concentration in receiving water (mg/l)

F effluent - effluent flow discharging to receiving waters, use average (m3/s)

C effluent - permissible effluent concentration

EQS (mg/l)		
(1986년 - 1987년 - 1985년 - 1987년 - 1987년 - 1987년 - 1987	High status Good S	tatus
BOD mg O/I	2. 2	2.6
Total Ammonia mg N/I	0.09	0.14
MRP (Orthophosphate) mg P/I	0.045	0.075
If no background conc available:	Adjusted background conc,	, mg/l
	For High Status For Goo	d Status
BOD mg Oi/l	2	2.4
Total Ammonia mg N/I	0.065	0.115
MRP (Orthophosphate) mg P/I	0.03	0.06
If background conc exceeds EQS	Adjusted background conc	, mg/l
	For High Status For Goo	d Status
BOD mg O ₂ /I	N/A	2.4
Total Ammonia mg N/I	N/A	0.11
MRP (Orthophosphate) mg P/I	N/A	0.06
If background conc does not exceed		
EQS, then use as it is	<u> </u>	

LWO, then use as it is	A Company of the Army and the Army of the State	
Status of Receiving Water	No Status data available - Q4 on GIS	e.g. high or good
500 B		e.g. BOD/Ammonia/MRP
EQS Parameter	BOD	BOD/Ammonia/WKF
EQS applicable	2,6000	e.g. 2.6
C Background	2.4000	
F River 95, m³/s	0.0060	50:
C Background (adjusted if required), mg/l	2.4000	95%ile
F discharge (max/day),	120.0000	# ()
F discharge (average), m³/s	0.0014]
C discharge, mg/l	25.0000	X
Contribution from discharge	4.6992	

and contribution from ELV)	7.0992	Ü
Adjustion correction (eg. (60sec		
*60min*24hours)/1000)	86.4000	
AC (kg/day)	0.1037	
Discharged in kg/day	3.0000	
% AC consumed	2893.52	ğ.
Available Headroom	0.2000	g.
% Headroom consumed	2349.62	

Reg. No.

W0017-04 Limerick County Council

Licensee Name:

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C downstream=(F river 95* C back) + (F effluent * C effluent)/ (F river 95 + F effluent)

C downstream -Downstream concentration in receiving water (mg/l)

F river 95 - upstream receiving fiver flow, 95 percentile flow (m3/s)

C back - background/upstream concentration in receiving water (mg/l)

F effluent - effluent flow discharging to receiving waters, use average (m3/s)

C effluent - permissible effluent concentration

EQS (mg/l)		
	High status	Good Status
BOD mg O ₂ /I	2.2	2.6
Total Ammonia mg N/I	0.09	0.14
MRP (Orthophosphate) mg P/I	0.045	0.075
If no background conc available:	Adjusted backgro	und conc, mg/l
- 아마스 등에 아이트를 통해 하시면 중요한 경험에 있었습니다. - 1 아니티 - 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	For High Status	For Good Status
BOD mg O ₂ /l	2	2.4
Total Ammonia mg N/I	0.065	0.115
MRP (Orthophosphate) mg P/I	0.03	0.06
If background conc exceeds EQS	Adjusted backgro	und conc, mg/l
	For High Status	For Good Status
BOD mg O ₂ /I	N/A	2.4
Total Ammonia mg N/I	N/A	0.115
MRP (Orthophosphate) mg P/I	N/A	0.06
If background conc does not exceed		
EQS, then use as it is		

EQS, then use as it is		
Status of Receiving Water	No Status data available - Q4 on GIS	e.g. high or good
EQS Parameter	Ammonia	e.g. BOD/Ammonia/MRP
EQS applicable	0,1400	e.g. 2.6
C Background	0.1150	
F River 95, m³/s	0.0060	
C Background (adjusted if required), mg/l	0.1150	95%ile
F discharge (max/day),	120.0000	
F discharge (average), m³/s	0.0014	
C discharge, mg/l	3.0000	4
Contribution from discharge	0.5639	
C downstream (by adding background and contribution from ELV)	0.6789	
Adjustion correction (eg. (60sec		

*60min*24hours)/1000)

Discharged in kg/day

Available Headroom % Headroom consumed

% AC consumed

AC (kg/day)

86.4000

0.0130

0.3600 **2777.78**

0.0250

2255.64

Rea. No.

Licensee Name: Limerick CC

W0017-04

Instruction: Fill in yellow boxes only

C downstream=(F river 95* C back) + (F effluent * C effluent)/ (F river 95 + F effluent)

C downstream -Downstream concentration in receiving water (mg/l)

F river 95 - upstream receiving fiver flow, 95 percentile flow (m3/s)

C back - background/upstream concentration in receiving water (mg/l)

F effluent - effluent flow discharging to receiving waters, use average (m3/s)

C effluent - permissible effluent concentration

EQS (mg/l)		
	High status	Good Status
BOD mg O ₂ /I	2.2	2.6
Total Ammonia mg N/I	0.09	0.14
MRP (Orthophosphate) mg P/l	0.045	0.075
If no background conc available:	Adjusted backgro	und conc, mg/l
	For High Status	For Good Status
BOD mg O ₂ /I	2	2.4
Total Ammonia mg N/I	0.065	0.115
MRP (Orthophosphate) mg P/I	0.03	0.06
If background conc exceeds EQS	Adjusted backgro	und conc, mg/l
,	For High Status	For Good Status
BOD mg Oz/I	N/A	2.4
Total Ammonia mg N/I	N/A	0.115
MRP (Orthophosphate) mg P/I	N/A	0.06
If background conc does not exceed		
EQS, then use as it is		

Status	of	Receiving	Water

EQS Parameter EQS applicable C Background

GOOD e.g. high or good BOD/Ammonia/MRP BOD 2.6000 e.g. 2.6 2.4000

F River 95, m³/s

C Background (adjusted if required), mg/l

F discharge (max/day),

F discharge (average), m3/s

C discharge, mg/l

0.0556		=40	ノベ
2.4000		95%ile	
120.000	0		/
0.0014			
25 0000			

using 40 miss discharge fla.

Contribution from discharge

0.6098

C downstream (by adding background

and contribution from ELV)

3.0098

exceeds EQS Lhuce 7/3/11

Adjustion correction (eg. (60sec *60min*24hours)/1000)

86.4000

AC (kg/day) 0.9600 Discharged in kg/day 3.0000 % AC consumed 312.50

Available Headroom % Headroom consumed 0.2000 304.88

>25% Headroom consumed?

Yes

Reg. No.

Licensee Name: Limerick CC

W0017-04

Instruction: Fill in yellow boxes only

C downstream=(F river 95* C back) + (F effluent * C effluent)/ (F river 95 + F effluent)

C downstream -Downstream concentration in receiving water (mg/l)

F river 95 - upstream receiving fiver flow, 95 percentile flow (m3/s)

C back - background/upstream concentration in receiving water (mg/l)

F effluent - effluent flow discharging to receiving waters, use average (m3/s)

C effluent - permissible effluent concentration

EQS (mg/l)		
	High status	Good Status
BOD mg O ₂ /I	2	.2 2.6
Total Ammonia mg N/I	0.0	0.14
MRP (Orthophosphate) mg P/I	0.045 0.	
If no background conc available:	Adjusted background conc, mg/l	
	For High Status	For Good Status
BQD mg O ₂ /I		2 2.4
Total Ammonia mg N/I	0.08	55 0.115
MRP (Orthophosphate) mg P/I	0.0	0.06
If background conc exceeds EQS	Adjusted backgr	ound conc, mg/l
	For High Status	For Good Status
BOD mg O ₂ /I	N	/A 2.4
Total Ammonia mg N/I	N/A	
MRP (Orthophosphate) mg P/I	N _i	/A 0.06
If heakground cone does not exceed	4	
If background conc does not exceed	<u>, </u>	
EQS, then use as it is		

Status of Receiving Water	GOOD	e.g. high or good
		e.g.
EQS Parameter	Ammonia	BOD/Ammonia/MRP
EQS applicable	0.1400	e.g. 2.6
C Background	0.1150	
		-
F River 95, m ³ /s	0.0556	
C Background (adjusted if required), mg/l	0.1150	95%ile
F discharge (max/day),	120.0000	
F discharge (average), m³/s	0.0014	
C discharge, mg/l	3.0000	

Contribution from discharge

0.0732

C downstream (by adding background and contribution from ELV)

0.1882

Adjustion correction (eg. (60sec *60min*24hours)/1000) 86.4000

0.1200 AC (kg/day) 0.3600 Discharged in kg/day 300.00 % AC consumed

0.0250 Available Headroom 292.68 % Headroom consumed

>25% Headroom consumed?

Yes

exceeds 605 Lhyo 7/3/11

Reg. No.

W0017-04 Licensee Name: Limerick CC

Instruction: Fill in yellow boxes only

C downstream=(F river 95* C back) + (F effluent * C effluent)/ (F river 95 + F effluent)

C downstream -Downstream concentration in receiving water (mg/l)

F river 95 - upstream receiving fiver flow, 95 percentile flow (m3/s)

C back - background/upstream concentration in receiving water (mg/l)

F effluent - effluent flow discharging to receiving waters, use average (m3/s)

C effluent - permissible effluent concentration

	<u> </u>		
EQS (mg/l)	95%ile		
	High status	Good Status	
BOD mg O ₂ /I	2.2		2.6
Total Ammonia mg N/I	0.09		0.14
MRP (Orthophosphate) mg P/I	0.045		0.075
EQS (mg/l)	Mean		
	High status	Good Status	
BOD mg O ₂ /I	1.3		1.5
Total Ammonia mg N/I	0.04		0.065
MRP (Orthophosphate) mg P/I	0.025		0.035
If no background conc available:	Adjusted background conc (mean) mg/l		
	For High Status	For Good Stat	us
BOD mg O ₂ /I	1.2		1.4
Total Ammonia mg N/I	0.03		0.053
MRP (Orthophosphate) mg P/I	0.02		0.03
If background conc exceeds EQS	Adjusted background conc (mean) mg/l		
	For High Status	For Good Stat	us
BOD mg O₂/I	N/A		1.4
Total Ammonia mg N/I	N/A		0.053
MRP (Orthophosphate) mg P/I	N/A		0.03
If background conc does not exceed			
EQS, then use as it is			

EQS, then use as it is	•	
Status of Receiving Water	GOOD	e.g. high or good
EQS Parameter EQS applicable C Background	BOD 2.6000 no data	e.g. BOD/Ammonia/OrthoP use 95%ile
F River 95, m ³ /s C Background (adjusted if required), mg/l F discharge (max/day), F discharge (average), m ³ /s C discharge, mg/l	0.0600 1.4000 120.0000 0.0014 25.0000	
Contribution from discharge	0.5656	
C downstream (by adding background and contribution from ELV)	1.9656	

Adjustion correction (eg. (60sec *60min*24hours)/1000)

AC (kg/day)

Discharged in kg/day

Available Headroom % Headroom consumed

% AC consumed

86.4000

6.2208

3.0000

48.23 1.2000

47.13

Reg. No.

W0017-04 Licensee Name: Limerick CC

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C downstream=(F river 95* C back) + (F effluent * C effluent)/ (F river 95 + F effluent)

C downstream -Downstream concentration in receiving water (mg/l)

F river 95 - upstream receiving fiver flow, 95 percentile flow (m3/s)

C back - background/upstream concentration in receiving water (mg/l)

F effluent - effluent flow discharging to receiving waters, use average (m3/s)

C effluent - permissible effluent concentration

EQS (mg/l)	95%ile		
	High status	Good Status	
BOD mg O ₂ /I	2.2		2.6
Total Ammonia mg N/I	0.09		0.14
MRP (Orthophosphate) mg P/I	0.045		0.075
EQS (mg/l)	Mean		
	High status	Good Status	
BOD mg O ₂ /I	1.3		1.5
Total Ammonia mg N/I	0.04	4	0.065
MRP (Orthophosphate) mg P/I	0.025		0.035
If no background conc available:	Adjusted background conc (mean) mg/l		ng/l
,	For High Status	For Good Stat	us
BOD mg O ₂ /I	1.2		1.4
Total Ammonia mg N/I	0.03		0.053
MRP (Orthophosphate) mg P/I	0.02		0.03
·			
If background conc exceeds EQS	Adjusted background conc (mean) mg/l		
	For High Status For Good Status		
BOD mg O ₂ /I	N/A		1.4
Total Ammonia mg N/I	N/A		0.053
MRP (Orthophosphate) mg P/I	N/A		0.03
If background conc does not exceed			
EQS, then use as it is			

Status of Receiving Water	GOOD	e.g. high or good
EQS Parameter EQS applicable C Background	Ammonia 0.1400 no data	e.g. BOD/Ammonia/OrthoP use 95%ile
F River 95, m³/s C Background (adjusted if required), mg/l F discharge (max/day), F discharge (average), m³/s C discharge, mg/l	0.0600 0.0530 120.0000 0.0014 3.0000	
Contribution from discharge	0.0679	
C downstream (by adding background and contribution from ELV)	0.1209	
Adjustion correction (eg. (60sec *60min*24hours)/1000)	86.4000	
AC (kg/day) Discharged in kg/day % AC consumed	0.4510 0.3600 79.82	
Available Headroom % Headroom consumed	0.0870 78.02	

Yes

>25% Headroom consumed?