SELECT	cells that are highlighted blue contain a dropdown menu click to select one option from the list
guidance document link	cells that contain underlined text click to access relevant guidance documents for this section
Table heading *	table headings followed by a symbol have an associated footnote or instructions
Cells with red indicator in top right corner	cells that have a red indicator in the top right corner contain a comment box with further instructions or clarification

Please note an interpretation of results is still required. This should be entered in the additional information/comments boxes within the templates. Please size these boxes appropriately to fit your interpretation, if additional space is required please include an appendix to the AER template and merge it as part of the AER PDF document. The excel template should have all cells sized appropriately so that all text is readable before it is converted to PDF document.

# **Facility Information Summary**

**AER Reporting Year** 

Licence Register Number

Name of site

Site Location NACE Code

Class/Classes of Activity

National Grid Reference (6E, 6 N)

A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year and an overview of compliance with your licence listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.

2017

W0089-02

Derryconnell Landfill & Civic Amenity Site

Derryconnell, Schull, Co. Cork

3821

5(c), 5(d), & 50.1

(49E, 53N)

# Description of Activities on Site during 2017:

The Facility at Derryconnell consists of a closed Landfill and a Civic Amenity Site. Deposition of waste at the landfill ceased in August 2010 and the final capping works were completed by Q2 2011. The main activities at the site during 2017 were the extraction of gas and leachate from the closed landfill (extracted gas is flared on-site and leachate is pumped to an on-site lagoon prior to being transported for treatment to Bandon WWTP) and the acceptance and storage of waste at the Civic Amenity Site for off-site treatment/disposal/recycling.

## Exceedances of Licence Limits during 2017:

None.

## Overview of Licence Compliance during 2017:

There was no non-compliance issued against the licence in 2017.

## **Declaration:**

All the data and information presented in this report has been checked and certified as being accurate. The quality of the information is assured to meet licence requirements.

Mairead Hales

Signature

Group/Facility manager

Date

(or nominated, suitably qualified and experienced deputy)

14/03/2018

AIR-summary template	Lic No:	W0089-02	Year	2017	
Answer all questions and complete all tables where relevant		Additiona	al information		
Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current  reporting year and answer further questions. If you do not have licenced emissions and do not complete a solvent management plan (table A4 and A5) you do not need to complete the tables	Yes	Nitrogen Oxides	at Landfill Gas Flare		
					_
Periodic/Non-Continuous Monitoring					
2 Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of TableA1 below	No				
3 Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist?  AGN2	Yes				

# Table A1: Licensed Mass Emissions/Ambient data-periodic monitoring (non-continuous)

										Comments -
										reason for
										change in %
			ELV in licence or							mass load from
Emission		Frequency of	any revision			Unit of	Compliant with		Annual mass	previous year if
reference no:	Parameter/ Substance	Monitoring	therof	Licence Compliance criteria	Measured value	measurement	licence limit	Method of analysis	load (kg)	applicable
A1-1 (Landfill Gas	Nitrogen oxides		_	No 30min mean can exceed						
Flare)	(NOx/NO2)	Biannually	150 mg/m <sup>3</sup>	the ELV	136.79	mg/Nm3	yes	EN 14792:2005	10.03	
A1-1 (Landfill Gas	Nitrogen oxides			No 30min mean can exceed						
Flare)	(NOx/NO2)	Biannually	150 mg/m <sup>3</sup>	the ELV	64.50	mg/Nm3	yes	EN 14792:2005		
										Average flow
A1-1 (Landfill Gas										rate during flare
Flare)	Volumetric flow	Continuous	N/A	N/A	116.73	Nm3/hour	N/A	ОТН		runtime
	SELECT			SELECT		SELECT	SELECT	SELECT		

Note 1: Volumetric flow shall be included as a reportable parameter

AIR-summary template	Lic No:	W0089-02	Year	2017
Continuous Monitoring				
Does your site carry out continuous air emissions monitoring?	Yes	Carbon Mon	oxide at Landfill Gas Flare	
If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare to its relevant Emission Limit Value (ELV)	it			_
Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	No			
Do you have a proactive service agreement for each piece of continuous monitoring equipment?	Yes	Service & Mai	intenance contract in place	
, Did your site experience any abatement system bypasses? If yes please detail them in table A3 below	No			

# Table A2: Summary of average emissions -continuous monitoring

Emission	Parameter/ Substance		Averaging Period	Compliance Criteria	Units of	Annual Emission	Annual maximum	Monitoring	Number of ELV	Comments
reference no:					measurement			Equipment	exceedences in	
		ELV in licence or						downtime (hours)	current	
		any revision therof							reporting year	
A1-1 (Landfill Gas										
Flare)	Carbon monoxide (CO)	N/A	10 Mins	N/A	mg/Nm3	4.43	4.81	0	N/A	
A1-1 (Landfill Gas										
Flare)	Volumetric flow	N/A	10 Mins	N/A	Nm3/hour	116.73	138.14	0	N/A	
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					

note 1: Volumetric flow shall be included as a reportable parameter.

Table A3: Abatement system bypass reporting table	Bypass protocol
---	-----------------

Date*	Duration** (hours)	Location	Reason for bypass	Impact magnitude	Corrective action

<sup>\*</sup> this should include all dates that an abatement system bypass occurred

<sup>\*\*</sup> an accurate record of time bypass beginning and end should be logged on site and maintained for future Agency inspections please refer to bypass protocol link

AIR-summa	ry template				Lic No:	W0089-02		Year	2017
Solv	ent use and managemer	nt on site							
Do you have a t	otal Emission Limit Value of dire	ect and fugitive emiss	ions on site? if yes	please fill out tables A4 and A5			No		
	olvent Management Plan on limit value	Summary Total	<u>Solvent</u> <u>regulations</u>	Please refer to linked solver complete table 5			, no		
Reporting yea	Total solvent input on site (kg)	emissions to Air		Total Emission Limit Value (ELV) in licence or any revision therof	Compliance				
					SELECT				
Table A	 A5: Solvent Mass Balanc	e summary			SELECT	1			
	(I) Inputs (kg)			(O)	Outputs (kg)				
Solvent	(I) Inputs (kg)		Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g.	Solvents destroyed onsite through	Total emission of Solvent to air (kg)	
							Total		

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)

Lic No: W0089-02

2017

Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table 1 W2 and W3 below for the current reporting year and answer further questions. If you do not have licenced emissions you only need to complete table W1 and or W2 for storm water analysis and visual inspections

Was it a requirement of your licence to carry out visual inspections on any surface water discharges or 2 watercourses on or near your site? If yes please complete table W2 below summarising only any evidence of contamination noted during visual inspections

Additional information No SW 7 - Inspected Weekly SW1-SW9 - Inspected Monthly

#### Table W1 Storm water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
SW1	downstream		Total Ammonia	31/03/2017	1	All results < 1.2 x ELV	1.48	mg/l NH3	yes	
SW1	downstream	Chlorides (as CI)		31/03/2017	N/A	N/A	36.37	mg/l	yes	
SW1	downstream		Conductivity	31/03/2017	750	All results < 1.2 x ELV	172		yes	
SW1	downstream		Total Ammonia	12/05/2017	1	All results < 1.2 x ELV	2.08	mg/I NH3	yes	
SW1	downstream	Chlorides (as CI)		12/05/2017	N/A	N/A	28.85	mg/l	yes	
SW1	downstream		Conductivity	12/05/2017	750	All results < 1.2 x ELV	200		yes	
SW1	downstream		Total Ammonia	23/08/2017	1	All results < 1.2 x ELV	0.7	mg/I NH3	yes	
SW1	downstream	Chlorides (as CI)		23/08/2017	N/A	N/A	5.54	mg/l	yes	
SW1	downstream		Conductivity	23/08/2017	750	All results < 1.2 x ELV	175		yes	
SW1	downstream		Dissolved Oxygen	23/08/2017	N/A	N/A	7.35	mg/I O2	yes	
SW1	downstream		Boron	23/08/2017	N/A	N/A	0.02	mg/l	yes	
SW1	downstream	Cadmium and compounds (as Cd)		23/08/2017	N/A	N/A	<20.000	μg/I	yes	
SW1	downstream		Calcium	23/08/2017	N/A	N/A	12.6	mg/l	yes	
SW1	downstream	Chromium and compounds (as Cr)		23/08/2017	N/A	N/A	<20.000	μg/l	yes	
SW1	downstream	Copper and compounds (as Cu)		23/08/2017	N/A	N/A	<20.000	μg/l	yes	
SW1	downstream	1 ( 21)	Iron	23/08/2017	N/A	N/A	1.432	mg/l	yes	
SW1 SW1	downstream downstream	Lead and compounds (as Pb)	Magnesium	23/08/2017	N/A	N/A N/A	<20.000	μg/I	yes	
SW1 SW1	downstream		Magnesium Manganese (as Mn)	23/08/2017 23/08/2017	N/A N/A	N/A N/A	3.21 548	mg/l μg/l	yes	
SW1		Nielel and accessed (as Ni)	Manganese (as Mn)	23/08/2017	N/A N/A	N/A	<20.000		yes	
SW1	downstream	Nickel and compounds (as Ni)	Potassium	23/08/2017	N/A N/A	N/A	<20.000 1.7	μg/l mg/l	yes	
SW1	downstream	Zinc and compounds (as Zn)	Potassium	23/08/2017	N/A N/A	N/A	55		yes	
SW1	downstream	Mercury and compounds (as Hg)		23/08/2017	N/A N/A	N/A	<10.000	µg/I µg/I	yes	
SW1	downstream	iviercury and compounds (as rig)	Sulphate	23/08/2017	N/A	N/A	6.04	mg/I SO4	yes	
SW1	downstream	Total phosphorus	Sulphate	23/08/2017	N/A	N/A	0.14	mg/I P	yes yes	
SW1	downstream	Total phosphorus	Total Ammonia	29/11/2017	1	All results < 1.2 x ELV	2.19	mg/I NH3	yes	
SW1	downstream	Chlorides (as CI)	Total Allillonia	29/11/2017	N/A	N/A	48.72	mg/I	yes	
SW1	downstream	Cilionaes (as Ci)	Conductivity	29/11/2017	750	All results < 1.2 x ELV	172	μS/cm @20oC	yes	
SW2	upstream		Total Ammonia	31/03/2017	1	All results < 1.2 x ELV	0.08	mg/I NH3	yes	
SW2	upstream	Chlorides (as CI)		31/03/2017	N/A	N/A	33.75	mg/l	yes	
SW2	upstream		Conductivity	31/03/2017	750	All results < 1.2 x ELV	111		yes	
SW2	upstream		Total Ammonia	12/05/2017	1	All results < 1.2 x ELV	Dry	mg/I NH3	yes	
SW2	upstream	Chlorides (as CI)		12/05/2017	N/A	N/A	Dry	mg/l	yes	
SW2	upstream	, , , , , , , , , , , , , , , , , , , ,	Conductivity	12/05/2017	750	All results < 1.2 x ELV	Dry	μS/cm @20oC	yes	
SW2	upstream		Total Ammonia	23/08/2017	1	All results < 1.2 x ELV	0.1	mg/I NH3	yes	
SW2	upstream	Chlorides (as CI)		23/08/2017	N/A	N/A	6.03	mg/l	yes	
SW2	upstream		Conductivity	23/08/2017	750	All results < 1.2 x ELV	102		yes	
SW2	upstream		Dissolved Oxygen	23/08/2017	N/A	N/A	7.47	mg/I O2	yes	
SW2	upstream		Boron	23/08/2017	N/A	N/A	0.03	mg/l	yes	
SW2	upstream	Cadmium and compounds (as Cd)		23/08/2017	N/A	N/A	<20.000	μg/l	yes	
SW2	upstream		Calcium	23/08/2017	N/A	N/A	2.42	mg/l	yes	
SW2	upstream	Chromium and compounds (as Cr)		23/08/2017	N/A	N/A	<20.000	μg/I	yes	
SW2	upstream	Copper and compounds (as Cu)		23/08/2017	N/A	N/A	<20.000	μg/I	yes	
SW2	upstream		Iron	23/08/2017	N/A	N/A	2.227	mg/l	yes	
SW2	upstream	Lead and compounds (as Pb)		23/08/2017	N/A	N/A	<20.000	μg/I	yes	
SW2	upstream		Magnesium	23/08/2017	N/A	N/A	1.99	mg/l	yes	
SW2	upstream		Manganese (as Mn)	23/08/2017	N/A	N/A	417	μg/I	yes	
SW2	upstream	Nickel and compounds (as Ni)		23/08/2017	N/A	N/A	<20.000	μg/I	yes	
SW2	upstream		Potassium	23/08/2017	N/A	N/A	<2.000	mg/l	yes	
SW2	upstream	Zinc and compounds (as Zn)		23/08/2017	N/A	N/A	<20.000	μg/I	yes	
SW2	upstream	Mercury and compounds (as Hg)		23/08/2017	N/A	N/A	<10.000	μg/I	yes	
SW2	upstream		Sulphate	23/08/2017	N/A	N/A	<2.500	mg/I SO4	yes	
SW2	upstream	Total phosphorus		23/08/2017	N/A	N/A	0.03	mg/I P	yes	
SW2	upstream		Total Ammonia	29/11/2017	1	All results < 1.2 x ELV	0.1	mg/I NH3	yes	
SW2	upstream	Chlorides (as CI)		29/11/2017	N/A	N/A	46.94	mg/l	yes	
SW2	upstream		Conductivity	29/11/2017	750	All results < 1.2 x ELV	128	μS/cm @20oC	yes	
SW3	downstream	at 11 ( a)	Total Ammonia	31/03/2017	1	All results < 1.2 x ELV	0.31	mg/I NH3	yes	
SW3	downstream	Chlorides (as CI)	Condition	31/03/2017	N/A	N/A	36.94	mg/l	yes	
SW3	downstream		Conductivity	31/03/2017	750	All results < 1.2 x ELV	149	μS/cm @20oC	yes	
SW3 SW3	downstream	Chloridae (co.Cl)	Total Ammonia	12/05/2017	1	All results < 1.2 x ELV	0.15 32.69	mg/I NH3	yes	
	downstream	Chlorides (as Cl)	Condition	12/05/2017	N/A	N/A		mg/l	yes	
SW3	downstream downstream		Conductivity Total Ammonia	12/05/2017	750 1	All results < 1.2 x ELV All results < 1.2 x ELV	167	μS/cm @20oC	yes	
SW3	uownstream		rotai Ammonia	23/08/2017	1	All results < 1.2 X ELV	0.12	mg/I NH3	yes	

		mmary template-WATER/WA	STEWATER(SEWER)			Lic No:	W0089-02		Year	
SW3		Chlorides (as CI)		23/08/2017	N/A	N/A	26.12	mg/l	yes	
SW3	downstream		Conductivity	23/08/2017	750	All results < 1.2 x ELV	131	μS/cm @20oC	yes	
SW3	downstream		Dissolved Oxygen	23/08/2017	N/A	N/A	8.72	mg/I O2	yes	
SW3	downstream		Boron	23/08/2017	N/A	N/A	0.02	mg/l	yes	
SW3		Cadmium and compounds (as Cd)		23/08/2017	N/A	N/A	<20.000	μg/l	yes	
SW3	downstream		Calcium	23/08/2017	N/A	N/A	7.12	mg/l	yes	
SW3	downstream	Chromium and compounds (as Cr)		23/08/2017	N/A	N/A	<20.000	μg/l	yes	
SW3	downstream	Copper and compounds (as Cu)		23/08/2017	N/A	N/A	<20.000	μg/I	yes	
SW3	downstream		Iron	23/08/2017	N/A	N/A	1.053	μg/I	yes	
SW3		Lead and compounds (as Pb)		23/08/2017	N/A	N/A	<20.000	μg/I	ves	
SW3	downstream		Magnesium	23/08/2017	N/A	N/A	2.5	mg/l	yes	
SW3	downstream		Manganese (as Mn)	23/08/2017	N/A	N/A	256	μg/I	yes	
SW3		Nickel and compounds (as Ni)	manganese (as imi)	23/08/2017	N/A	N/A	<20.000	дg/I	yes	
SW3	downstream	Nicker and compounds (as Ni)	Potassium	23/08/2017	N/A	N/A	<2.000			
SW3		Zinc and compounds (as Zn)	r otassium	23/08/2017	N/A	N/A	31	mg/l μg/l	yes yes	
SW3						N/A	<10.000		yes	
SW3	downstream	Mercury and compounds (as Hg)	Colobata	23/08/2017	N/A N/A	N/A	3.06	μg/I		
			Sulphate	23/08/2017		,		mg/I SO4	yes	
SW3		Total phosphorus		23/08/2017	N/A	N/A	0.02	mg/l P	yes	
SW3	downstream		Total Ammonia	29/11/2017	1	All results < 1.2 x ELV	0.37	mg/I NH3	yes	
SW3		Chlorides (as CI)		29/11/2017	N/A	N/A	45.05	mg/l	yes	
SW3	downstream		Conductivity	29/11/2017	750	All results < 1.2 x ELV	159	μS/cm @20oC	yes	
SW4	downstream		Total Ammonia	31/03/2017	1	All results < 1.2 x ELV	1.18	mg/I NH3	yes	
SW4	downstream	Chlorides (as CI)		31/03/2017	N/A	N/A	53.79	mg/l	yes	
SW4	downstream		Conductivity	31/03/2017	750	All results < 1.2 x ELV	409	μS/cm @20oC	yes	
SW4	downstream		Total Ammonia	12/05/2017	1	All results < 1.2 x ELV	1.04	mg/I NH3	yes	
SW4		Chlorides (as CI)	2.2	12/05/2017	N/A	N/A	29.12	mg/I	yes	
SW4	downstream	Cinoriaes (as Ci)	Conductivity	12/05/2017	750	All results < 1.2 x ELV	29.12	μS/cm @20oC		
	downstream		Total Ammonia		750	All results < 1.2 x ELV	0.34		yes	
SW4		Chloridae (ac Cl)	rotal Ammonia	23/08/2017				mg/I NH3	yes	
SW4		Chlorides (as CI)	0 1 11 11	23/08/2017	N/A	N/A	26.67	mg/l	yes	
SW4	downstream		Conductivity	23/08/2017	750	All results < 1.2 x ELV	143	μS/cm @20oC	yes	
SW4	downstream		Dissolved Oxygen	23/08/2017	N/A	N/A	5.42	mg/I O2	yes	
SW4	downstream		Boron	23/08/2017	N/A	N/A	0.02	mg/l	yes	
SW4	downstream	Cadmium and compounds (as Cd)		23/08/2017	N/A	N/A	<20.000	μg/l	yes	
SW4	downstream		Calcium	23/08/2017	N/A	N/A	8.78	mg/l	yes	
SW4	downstream	Chromium and compounds (as Cr)		23/08/2017	N/A	N/A	<20.000	μg/I	yes	
SW4	downstream	Copper and compounds (as Cu)		23/08/2017	N/A	N/A	<20.000	μg/I	yes	
SW4	downstream		Iron	23/08/2017	N/A	N/A	0.746	μg/I	yes	
SW4		Lead and compounds (as Pb)	11011	23/08/2017	N/A	N/A	<20.000	де/I	yes	
SW4	downstream	Lead and compounds (as r b)		23/08/2017	N/A	N/A	2.91			
			Magnesium					mg/l	yes	
SW4	downstream		Manganese (as Mn)	23/08/2017	N/A	N/A	186	μg/I	yes	
SW4		Nickel and compounds (as Ni)		23/08/2017	N/A	N/A	<20.000	μg/I	yes	
SW4	downstream		Potassium	23/08/2017	N/A	N/A	<2.000	mg/l	yes	
SW4		Zinc and compounds (as Zn)		23/08/2017	N/A	N/A	<20.000	μg/l	yes	
SW4	downstream	Mercury and compounds (as Hg)		23/08/2017	N/A	N/A	<10.000	μg/l	yes	
SW4	downstream		Sulphate	23/08/2017	N/A	N/A	<2.500	mg/I SO4	yes	
SW4	downstream	Total phosphorus		23/08/2017	N/A	N/A	0.01	mg/I P	yes	
SW4	downstream		Total Ammonia	29/11/2017	1	All results < 1.2 x ELV	7.9	mg/I NH3	yes	
SW4	downstream	Chlorides (as Cl)		29/11/2017	N/A	N/A	74.44	mg/l	yes	
SW4	downstream		Conductivity	29/11/2017	750	All results < 1.2 x ELV	404	μS/cm @20oC	yes	
SW5	downstream		Total Ammonia	31/03/2017	1	All results < 1.2 x ELV	0.07	mg/I NH3	yes	
SW5		Chlorides (as CI)		31/03/2017	N/A	N/A	39.56	mg/l	yes	
SW5	downstream		Conductivity	31/03/2017	750	All results < 1.2 x ELV	145	μS/cm @20oC	yes	
SW5	downstream		Total Ammonia	12/05/2017	1	All results < 1.2 x ELV	<0.01	mg/I NH3	yes	
SW5		Chlorides (se Cl)	rotal Allinofila	12/05/2017	N/A	N/A	<0.01 31.21			
		Chlorides (as CI)	Constitute					mg/l	yes	
SW5	downstream		Conductivity	12/05/2017	750	All results < 1.2 x ELV	165	μS/cm @20oC	yes	
SW5	downstream		Total Ammonia	23/08/2017	1	All results < 1.2 x ELV	0.05	mg/I NH3	yes	
SW5		Chlorides (as CI)		23/08/2017	N/A	N/A	5.56	mg/l	yes	
SW5	downstream		Conductivity	23/08/2017	750	All results < 1.2 x ELV	117	μS/cm @20oC	yes	
SW5	downstream		Dissolved Oxygen	23/08/2017	N/A	N/A	9.18	mg/I O2	yes	
SW5	downstream		Boron	23/08/2017	N/A	N/A	0.02	mg/l	yes	
SW5	downstream	Cadmium and compounds (as Cd)		23/08/2017	N/A	N/A	<20.000	μg/I	yes	
SW5	downstream		Calcium	23/08/2017	N/A	N/A	5.77	mg/l	yes	
SW5		Chromium and compounds (as Cr)		23/08/2017	N/A	N/A	<20.000	μg/l	yes	
SW5		Copper and compounds (as Cu)		23/08/2017	N/A	N/A	<20.000	μg/I	yes	
SW5	downstream	, ,	Iron	23/08/2017	N/A	N/A	1.198	mg/l	yes	
SW5		Lead and compounds (as Pb)		23/08/2017	N/A	N/A	<20.000		ves	
		ccaa ana compounts (as ru)	Magnesium					μg/I	,	
SW5	downstream		Magnesium	23/08/2017	N/A	N/A	2.31	mg/l	yes	
SW5	downstream		Manganese (as Mn)	23/08/2017	N/A	N/A	274	μg/I	yes	
SW5		Nickel and compounds (as Ni)		23/08/2017	N/A	N/A	<20.000	μg/I	yes	
SW5	downstream		Potassium	23/08/2017	N/A	N/A	<2.000	mg/l	yes	
SW5	downstream	Zinc and compounds (as Zn)		23/08/2017	N/A	N/A	27	μg/I	yes	
SW5	downstream	Mercury and compounds (as Hg)		23/08/2017	N/A	N/A	<10.000	μg/I	yes	
SW5	downstream		Sulphate	23/08/2017	N/A	N/A	4.18	mg/I SO4	yes	
SW5		Total phosphorus		23/08/2017	N/A	N/A	0.02	mg/I P	yes	
SW5	downstream		Total Ammonia	29/11/2017	1	All results < 1.2 x ELV	0.06	mg/I NH3	yes	
SW5		Chlorides (as CI)	. 2.31 / 11111101110	29/11/2017	N/A	N/A	49.28		yes	
SW5	downstream	Cinorides (as Ci)	Conductivity	29/11/2017	750	All results < 1.2 x ELV	149.28	mg/l μS/cm @20oC		
									yes	
SW6	downstream		Total Ammonia	31/03/2017	1	All results < 1.2 x ELV	4.58	mg/I NH3	yes	
SW6	downstream downstream	Chlorides (as CI)		31/03/2017	N/A	N/A	48.54	mg/l	yes	
SW6			Conductivity	31/03/2017	750	All results < 1.2 x ELV	481	μS/cm @20oC	yes	

ART Montholing relative summary implies WATE (MATE WATE WATE WATE WATE WATE WATE WATE W	AED Monitor	ing roturns su	mmany tomplate WATER/WAST	ENATED/CENAED)			Lic No:	W0089-02		Year	2017
March   Controlled   Controll				EVVAIEN(SEVVEN)	22/02/2047	***					2017
			Chlorides (as Cl)							· · · · · · · · · · · · · · · · · · ·	
											4
				Dissolved Oxygen					mg/I O2	yes	
Decoration   Control of the composed is 20   200,000   No.   No.	SW6	downstream		Boron	23/08/2017	N/A	N/A	0.03	mg/l	yes	A I
Description	SW6	downstream	Cadmium and compounds (as Cd)		23/08/2017	N/A	N/A	<20.000	μg/l	yes	
	SW6			Calcium		N/A	N/A	14.2		yes	
			Chromium and compounds (as Cr)								
	0.110										4
Section   Color of Composed (at PS)   Color   Color			copper and compounds (as cu)	Iron							4
December   Continue				iron							4
December   Content			Lead and compounds (as Pb)								4
December   Continue		downstream								yes	4
Description	SW6	downstream		Manganese (as Mn)	23/08/2017	N/A	N/A	390	μg/l	yes	A I
Machine   Mach	SW6	downstream	Nickel and compounds (as Ni)		23/08/2017	N/A	N/A	<20.000	μg/l	yes	
December   December				Potassium						ves	
Description	SW6	downstream	Zinc and compounds (as Zn)		23/08/2017		N/Δ				
March   Marc											
2006   Committee   Committee			iviercury and compounds (as rig)	Colobata							4
No.   Continues   Continues				Sulpliate							4
Secretary   Secr			Total phosphorus								4
Description   Controllary				Total Ammonia							4
Section   Part   1.507/2073   Commission   Part   1.507/2073   Commission   Part   C			Chlorides (as CI)							yes	4
SWT   downstream	SW6	downstream		Conductivity	29/11/2017	750	All results < 1.2 x ELV	325	μS/cm @20oC	yes	A I
Syr	SW7	downstream		pH	13/02/2017	6-9	All values < ELV	6.50	pH units	yes	
SWY	SW7	downstream		Total Ammonia		1	All results < 1.2 x ELV				
Suppose   Supp										,	
SW7   downstream   Confede (et C)								4.00			
No.										,	_
Section   Sect			Chlorides (as CI)	COD							
Syr7   downstream			Chiorides (as CI)								4
Sept.   Constraint											
Supported Select   Supported S		downstream								yes	
SWT   Sometteen   Conditions   Conditions   SWT   SW	SW7	downstream			31/03/2017	750		274.00	μS/cm @20oC	yes	A I
SW7   Governteram	SW7	downstream		Suspended Solids	31/03/2017	N/A	N/A	6.00	mg/L	yes	
SW7   Governteram	SW7	downstream		COD	31/03/2017	N/A	N/A	2.00	mg/L	ves	
SWT   downstream   pt   ST09/2017   6-9   All values CEV   C.50   pt units   yes			Chlorides (as CI)								
SW7   Goversteam			Cinoriaes (as er)	nH		,				· · · · · · · · · · · · · · · · · · ·	
SW7   Sowestream											4
SWT   Sowersteam   Suppended Solids   2704/2017   N/A   N/A   1.00   mg/L   yes											4
SW7										· · · · · · · · · · · · · · · · · · ·	4
SW7   Goverstream   Chlorides (as Cl)   2704/2017   N/A   N/A   29.45   mg/L   yes										yes	4
SW7	SW7	downstream		COD	27/04/2017	N/A	N/A	18.00	mg/L	yes	A I
SW7   downstream   pit   1605/2017   5-9   All values < (EV   6.70   pit units   yes   1505/2017   1   All results < 1.2 EUV   0.82   mg/L   yes   1505/2017   1   All results < 1.2 EUV   0.82   mg/L   yes   1505/2017   1   All results < 1.2 EUV   160.00   Is/Grim @20GC   yes   1505/2017   1   All results < 1.2 EUV   160.00   Is/Grim @20GC   yes   1505/2017   Is/Grim @20GC   y	SW7	downstream	Chlorides (as CI)		27/04/2017	N/A	N/A	29.49	mg/L	yes	
SW7   downstream   Conductivity   1609/2017   1   All results < 1.2 EUV   0.82   ImpfL   yes   SW7   downstream   Conductivity   1609/2017   N/A   N/A   1.00   ImpfL   yes   SW7   downstream   COD   1609/2017   N/A   N/A   1.00   ImpfL   yes   SW7   downstream   COD   1609/2017   N/A   N/A   1.00   ImpfL   yes   SW7   downstream   COD   1609/2017   N/A   N/A   N/A   1.00   ImpfL   yes   SW7   downstream   COD   1609/2017   N/A   N/A   N/A   1.00   ImpfL   yes   SW7   downstream   Conductivity   2.2006/2017   N/A   N/A   N/A   N/A   1.00   ImpfL   yes   SW7   downstream   Conductivity   2.2006/2017   N/A   N/A   N/A   N/A   N/A   1.00   ImpfL   yes   SW7   downstream   Conductivity   2.2006/2017   N/A   N/A   1.00   ImpfL   yes   SW7   downstream   Conductivity   2.2006/2017   N/A   N/A   1.00   ImpfL   yes   SW7   downstream   Conductivity   2.2006/2017   N/A   N/A   1.00   ImpfL   yes   SW7   downstream   COD   2.2006/2017   N/A   N/A   1.00   ImpfL   yes   SW7   downstream   COD   2.2006/2017   N/A   N/A   2.00   ImpfL   yes   SW7   downstream   COD   2.2006/2017   N/A   N/A   2.00   ImpfL   yes   SW7   downstream   COD   2.2006/2017   N/A   N/A   2.00   ImpfL   yes   SW7   downstream   COD   2.2006/2017   N/A   N/A   2.00   ImpfL   yes   SW7   downstream   COD   2.2006/2017   N/A   N/A   2.00   ImpfL   yes   SW7   downstream   COD   2.2006/2017   N/A   N/A   2.00   ImpfL   yes   SW7   downstream   COD   2.2006/2017   N/A   N/A   2.00   ImpfL   yes   SW7   downstream   COD   2.2006/2017   N/A   N/A   2.00   ImpfL   yes   SW7   downstream   COD   2.2006/2017   N/A   N/A   2.00   ImpfL   yes   SW7   downstream   COD   2.2006/2017   N/A   N/A   2.00   ImpfL   yes   SW7   downstream   COD   2.2006/2017   N/A   N/A   2.00   ImpfL   yes   SW7   downstream   COD   2.2006/2017   N/A   N/A   2.00   ImpfL   yes   SW7   downstream   COD   2.2006/2017   N/A   N/A   2.00   ImpfL   yes   SW7   downstream   COD   2.2006/2017   N/A   N/A   2.00   ImpfL   yes   SW7   downstream   COD   2.2006/2017   N/A   N/A   2.00   ImpfL	SW7			pH		6-9		6.70			
SWT   downstream   Suspended Solids   160%,2017   750   All results < 1.2 kEU   188.00   Is/On @ 200C   yes		downstream		Total Ammonia							
SW7					16/05/2017						
SW7   downstream   Clorides (as Cl)   16(05/2017   N/A   N/A   13.00   mg/L   yes										1	4
SW7   Gowstream   Chlorides (as C)				suspended sonds							4
SW7   Gownstream				COD					Ur Ur	1	4
SW7		downstream	Chlorides (as CI)							yes	
SW7   downstream   Suspended Solids   22/06/2017   N/A   N/A   1.00   mg/L   yes   SW7   downstream   Suspended Solids   22/06/2017   N/A   N/A   1.00   mg/L   yes   SW7   downstream   Chlorides (as Cl)   22/06/2017   N/A   N/A   N/A   22.00   mg/L   yes   SW7   downstream   Chlorides (as Cl)   22/06/2017   N/A   N/A   N/A   22.00   mg/L   yes   SW7   downstream   Total Ammonia   23/08/2017   6-9   All values of EUV   6-70   PH units   yes   SW7   downstream   Conductivity   23/08/2017   1   All results 1.2 ac EUV   1.20   mg/L   yes   SW7   downstream   Suspended Solids   23/08/2017   750   All results 1.2 ac EUV   201.00   Is/Srim @200C   yes   SW7   downstream   Chlorides (as Cl)   23/08/2017   N/A   N/A   33.00   mg/L   yes   SW7   downstream   Chlorides (as Cl)   23/08/2017   N/A   N/A   33.00   mg/L   yes   SW7   downstream   Chlorides (as Cl)   23/08/2017   N/A   N/A   N/A   33.00   mg/L   yes   SW7   downstream   Chlorides (as Cl)   23/08/2017   N/A   N/A   N/A   21.00   mg/L   yes   SW7   downstream   Chlorides (as Cl)   23/08/2017   N/A   N/A   N/A   21.00   mg/L   yes   SW7   downstream   Chlorides (as Cl)   23/08/2017   N/A   N/A   N/A   20.00   mg/L   yes   SW7   downstream   Chlorides (as Cl)   23/08/2017   N/A   N/A   N/A   20.00   mg/L   yes   SW7   downstream   Chlorides (as Cl)   23/08/2017   N/A   N/A   N/A   20.00   mg/L   yes   SW7   downstream   Chlorides (as Cl)   23/08/2017   N/A   N/A   N/A   20.00   mg/L   yes   SW7   downstream   Chlorides (as Cl)   23/08/2017   N/A   N/A   N/A   20.000   mg/L   yes   SW7   downstream   Chlorides (as Cl)   23/08/2017   N/A   N/A   20.000   mg/L   yes   SW7   downstream   Chlorides (as Cl)   23/08/2017   N/A   N/A   20.000   mg/L   yes   SW7   downstream   Chlorides (as Cl)   23/08/2017   N/A   N/A   20.000   mg/L   yes   SW7   downstream   Chlorides (as Cl)   23/08/2017   N/A   N/A   20.000   mg/L   yes   SW7   downstream   Chlorides (as Cl)   23/08/2017   N/A   N/A   N/A   20.000   mg/L   yes   SW7   downstream   Chlorides (as Cl)   23/08/2017   N/	SW7	downstream			22/06/2017	6-9		6.60	pH units	yes	
SW7   downstream   Supended Solids   22/06/2017   N/A   N/A   1.00   mg/L   yes	SW7	downstream		Total Ammonia	22/06/2017	1	All results < 1.2 x ELV	2.92	mg/L		
SW7   downstream	SW7	downstream		Conductivity	22/06/2017	750	All results < 1.2 x ELV	220.00	μS/cm @20oC	yes	
SW7   downstream   COD   22/05/2017   N/A   N/A   28.00   mg/L   yes	SW7	downstream		Suspended Solids	22/06/2017	N/A		1.00			
SW7   downstream   Chorides (as Cl)						,					
SW7   downstream			Chloridas (as CI)	605							4
SW7   downstream			Ciliondes (as Ci)							,	4
SW7   downstream   Conductivity   23/08/2017   750   All results < 1.2 x ELV   20.1.00   μ/S/cm @200C   yes	5447										4
SW7   downstream   Suspended Solids   23/08/2017   N/A   N/A   3.00   mg/L   yes						_					4
SW7   downstream									µS/cm @20oC	yes	
SW7   downstream   SW7   downs	SW7	downstream		Suspended Solids	23/08/2017	N/A	N/A	3.00	mg/L	yes	
SW7   downstream   SW7   downs	SW7			COD	23/08/2017	N/A		33.00	mg/L	yes	
SW7			Chlorides (as CI)								
SW7   downstream   Calcium   Calci	SW7			Boron		N/A		0.02			
SW7   downstream   Calcium   23/08/2017   N/A   N/A   A6.4   mg/l   yes			Cadmium and compounds (as Cd)								
SW7   downstream   Compounds (as Cr)   23/08/2017   N/A   N/A   < 20.000   µg/l   yes			and compounds (as cu)	Calcium		,					
SW7			Chromium and compounds (as Cr)								_
SW7						,					
SW7   downstream   lead and compounds (as Pb)   23/08/2017   N/A   N/A   4.00   µg/l   yes			copper and compounds (as Cu)			,					
SW7   downstream   Magnesium   23/08/2017   N/A   N/A   4.66   mg/l   yes				iron					mg/l		
SW7   downstream   Magnesium   23/08/2017   N/A   N/A   2029   µg/l   yes			Lead and compounds (as Pb)								
SW7   downstream   Nickel and compounds (as Ni)   23/08/2017   N/A   N/A   20.090   µg/l   yes				Magnesium	23/08/2017				mg/l	yes	
SW7   downstream   Nickel and compounds (as Ni)   23/08/2017   N/A   N/A   4.00.000   µg/l   yes	SW7	downstream		Manganese (as Mn)	23/08/2017	N/A		2029			
SW7			Nickel and compounds (as Ni)							yes	
SW7   downstream   Zinc and compounds (as Zn)   23/08/2017   N/A   N/A   A   A   2   µg/l   yes				Potassium							
SW7 downstream			Zinc and compounds (as 7n)								
SW7											_
SW7         downstream         Total phosphorus         23/08/2017         N/A         N/A         0.03         mg/l P         yes           SW7         downstream         pH         21/09/2017         6-9         All values < ELV			iviercury and compounds (as rig)	Culabasa						1	
SW7         downstream         PH         21/09/2017         6-9         All values < ELV         6.50         pH units         yes           SW7         downstream         Total Ammonia         21/09/2017         1         All results < 1.2 x ELV				Suipriate							
SW7         downstream         Total Ammonia         21/09/2017         1         All results < 1.2 x ELV         0.27         mg/L         yes           SW7         downstream         Conductivity         21/09/2017         750         All results < 1.2 x ELV			Total phosphorus			,					
SW7         downstream         Conductivity         21/09/2017         750         All results < 1.2 x ELV         128.00         µS/cm @ 20oC         yes           SW7         downstream         Suspended Solids         21/09/2017         N/A         N/A         1.00         mg/L         yes           SW7         downstream         COD         21/09/2017         N/A         N/A         33.00         mg/L         yes           SW7         downstream         Chlorides (as Cl)         21/09/2017         N/A         N/A         24.90         mg/L         yes           SW7         downstream         PH         24/10/2017         6-9         All values < ELV		downstream							pH units	yes	
SW7         downstream         Conductivity         21/09/2017         750         All results < 1.2 x ELV         128.00         µS/cm @ 20oC         yes           SW7         downstream         Suspended Solids         21/09/2017         N/A         N/A         1.00         mg/L         yes           SW7         downstream         COD         21/09/2017         N/A         N/A         33.00         mg/L         yes           SW7         downstream         Chlorides (as Cl)         21/09/2017         N/A         N/A         24.90         mg/L         yes           SW7         downstream         PH         24/10/2017         6-9         All values < ELV	SW7	downstream		Total Ammonia	21/09/2017	1	All results < 1.2 x ELV	0.27	mg/L	yes	
SW7         downstream         Suspended Solids         21/09/2017         N/A         N/A         1.00         mg/L         yes           SW7         downstream         COD         21/09/2017         N/A         N/A         33.00         mg/L         yes           SW7         downstream         Chlorides (as Cl)         21/09/2017         N/A         N/A         24.90         mg/L         yes           SW7         downstream         pH         24/10/2017         6-9         All values < ELV	SW7	downstream			21/09/2017	750	All results < 1.2 x ELV	128.00			
SW7         downstream         COD         21/09/2017         N/A         N/A         33.00         mg/L         yes           SW7         downstream         Chlorides (as Cl)         21/09/2017         N/A         N/A         24.90         mg/L         yes           SW7         downstream         pH         24/10/2017         6-9         All values < ELV									,,		
SW7         downstream         Chlorides (as Cl)         21/09/2017         N/A         N/A         24.90         mg/L         yes           SW7         downstream         pH         24/10/2017         6-9         All values < ELV											
SW7         downstream         pH         24/10/2017         6-9         All values < ELV         7.80         pH units         yes           SW7         downstream         Total Ammonia         24/10/2017         1         All results < 1.2 x ELV			Chlorides (as CI)			,					_
SW7 downstream   Total Ammonia   24/10/2017   1   All results < 1.2 x ELV   1.43   mg/L   yes			Cinorides (as Ci)	-11			N/A				
				r						,	
SW7 downstream   Conductivity 24/10/2017 750 All results < 1.2 x ELV 381.00 µS/cm @20oC yes										yes	
	SW7	downstream		Conductivity	24/10/2017	750	All results < 1.2 x ELV	381.00	μS/cm @20oC	yes	4

R Monito	ring returns su	ummary template-WATER/WAS	TEWATER(SEWER)			Lic No:	W0089-02		Year	:
SW7	downstream		Suspended Solids	24/10/2017	N/A	N/A	3.00	mg/L	yes	
SW7	downstream		COD	24/10/2017	N/A	N/A	9.00	mg/L	yes	
SW7	downstream	Chlorides (as CI)		24/10/2017	N/A	N/A	43.95	mg/L	yes	
SW7	downstream		pH	29/11/2017	6-9	All values < ELV	7.00	pH units	yes	
SW7	downstream		Total Ammonia	29/11/2017	1	All results < 1.2 x ELV	0.34	mg/L	yes	
SW7	downstream		Conductivity	29/11/2017	750	All results < 1.2 x ELV	441.00	μS/cm @20oC	yes	
SW7	downstream		Suspended Solids	29/11/2017	N/A	N/A	11.00	mg/L	yes	
SW7	downstream		COD	29/11/2017	N/A	N/A	18.00	mg/L	yes	
SW7	downstream	Chlorides (as CI)		29/11/2017	N/A	N/A	44.02	mg/L	yes	
SW7	downstream		pH	13/12/2017	6-9	All values < ELV	6.70	pH units	yes	
SW7	downstream		Total Ammonia	13/12/2017	1	All results < 1.2 x ELV	0.77	mg/L	yes	
SW7	downstream		Conductivity	13/12/2017	750	All results < 1.2 x ELV	174.00	μS/cm @20oC	yes	
SW7	downstream		Suspended Solids	13/12/2017	N/A	N/A	4.00	mg/L	yes	
SW7	downstream		COD	13/12/2017	N/A	N/A	<1.000	mg/L	yes	
SW7	downstream	Chlorides (as CI)		13/12/2017	N/A	N/A	29.40	mg/L	yes	
SW8	upstream		Total Ammonia	31/03/2017	1	All results < 1.2 x ELV	0.15	mg/I NH3	yes	
SW8	upstream	Chlorides (as Cl)		31/03/2017	N/A	N/A	31.59	mg/l	yes	
SW8	upstream		Conductivity	31/03/2017	750	All results < 1.2 x ELV	114	μS/cm @20oC	yes	
SW8	upstream		Total Ammonia	12/05/2017	1	All results < 1.2 x ELV	<0.01	mg/I NH3	yes	
SW8	upstream	Chlorides (as CI)		12/05/2017	N/A	N/A	37.91	mg/l	yes	
SW8	upstream		Conductivity	12/05/2017	750	All results < 1.2 x ELV	265	μS/cm @20oC	yes	
SW8	upstream		Total Ammonia	23/08/2017	1	All results < 1.2 x ELV	0.25	mg/l NH3	yes	
SW8	upstream	Chlorides (as CI)		23/08/2017	N/A	N/A	5.68	mg/l	yes	
SW8	upstream		Conductivity	23/08/2017	750	All results < 1.2 x ELV	85	μS/cm @20oC	yes	
SW8	upstream		Dissolved Oxygen	23/08/2017	N/A	N/A	7.05	mg/I O2	yes	
SW8	upstream		Boron	23/08/2017	N/A	N/A	0.01	mg/l	yes	
SW8	upstream	Cadmium and compounds (as Cd)		23/08/2017	N/A	N/A	<20.000	μg/l	yes	
SW8	upstream		Calcium	23/08/2017	N/A	N/A	11.2	mg/l	yes	
SW8	upstream	Chromium and compounds (as Cr)		23/08/2017	N/A	N/A	<20.000	μg/l	yes	
SW8	upstream	Copper and compounds (as Cu)		23/08/2017	N/A	N/A	<20.000	μg/l	yes	
SW8	upstream		Iron	23/08/2017	N/A	N/A	0.809	mg/l	yes	
SW8	upstream	Lead and compounds (as Pb)		23/08/2017	N/A	N/A	<20.000	μg/l	yes	
SW8	upstream		Magnesium	23/08/2017	N/A	N/A	3.32	mg/l	yes	
SW8	upstream		Manganese (as Mn)	23/08/2017	N/A	N/A	91	μg/I	yes	
SW8	upstream	Nickel and compounds (as Ni)	,	23/08/2017	N/A	N/A	<20.000	μg/I	yes	
SW8	upstream		Potassium	23/08/2017	N/A	N/A	<2.000	mg/l	yes	
SW8	upstream	Zinc and compounds (as Zn)		23/08/2017	N/A	N/A	116	μg/l	yes	
SW8	upstream	Mercury and compounds (as Hg)		23/08/2017	N/A	N/A	<10.000	μg/I	yes	
SW8	upstream		Sulphate	23/08/2017	N/A	N/A	<2.500	mg/I SO4	yes	
SW8	upstream	Total phosphorus		23/08/2017	N/A	N/A	0.02	mg/I P	yes	
SW8	upstream		Total Ammonia	29/11/2017	1	All results < 1.2 x ELV	0.09	mg/l NH3	yes	
SW8	upstream	Chlorides (as CI)		29/11/2017	N/A	N/A	53.52	mg/l	yes	
SW8	upstream		Conductivity	29/11/2017	750	All results < 1.2 x ELV	120	μS/cm @20oC	yes	
SW9	upstream		Total Ammonia	31/03/2017	1	All results < 1.2 x ELV	0.05	mg/I NH3	yes	
SW9	upstream	Chlorides (as CI)		31/03/2017	N/A	N/A	53.57	mg/I	yes	
SW9	upstream		Conductivity	31/03/2017	750	All results < 1.2 x ELV	162	μS/cm @20oC	yes	
SW9	upstream		Total Ammonia	23/08/2017	1	All results < 1.2 x ELV	0.07	mg/I NH3	yes	
SW9	upstream	Chlorides (as CI)		23/08/2017	N/A	N/A	5.54	mg/I	yes	
SW9	upstream		Conductivity	23/08/2017	750	All results < 1.2 x ELV	137	μS/cm @20oC	yes	
SW9	upstream		Dissolved Oxygen	23/08/2017	N/A	N/A	8.45	mg/I O2	yes	
SW9	upstream		Boron	23/08/2017	N/A	N/A	0.02	mg/I	yes	
SW9	upstream	Cadmium and compounds (as Cd)		23/08/2017	N/A	N/A	<20.000	μg/l	yes	
SW9	upstream	and compounds (us cu)	Calcium	23/08/2017	N/A	N/A	8.64	mg/l	yes	
SW9	upstream	Chromium and compounds (as Cr)	Carcum	23/08/2017	N/A	N/A	<20.000	μg/I	yes	
SW9	upstream	Copper and compounds (as Cu)		23/08/2017	N/A	N/A	<20.000	μg/I	yes	
SW9	upstream	copper una compounta (as cu)	Iron	23/08/2017	N/A	N/A	3.123	mg/l	yes	
SW9	upstream	Lead and compounds (as Pb)		23/08/2017	N/A	N/A N/A	<20.000	mg/I μg/I	yes	
SW9	upstream	ecoo ono compounds (as r b)	Magnesium	23/08/2017	N/A N/A	N/A N/A	3.74	μg/I mg/I		
SW9			Manganese (as Mn)	23/08/2017	N/A	N/A N/A	438		yes	
	upstream	Nickel and compounds (as Ni)	ivianganese (as ivin)					μg/l	yes	
SW9	upstream	recket and compounds (as NI)	Dotaccium	23/08/2017	N/A	N/A	<20.000	μg/I	yes	
SW9	upstream	7:	Potassium	23/08/2017	N/A	N/A	<2.000	mg/l	yes	
SW9	upstream	Zinc and compounds (as Zn)		23/08/2017	N/A	N/A	122	μg/l	yes	
SW9	upstream	Mercury and compounds (as Hg)		23/08/2017	N/A	N/A	<10.000	μg/I	yes	
SW9	upstream		Sulphate	23/08/2017	N/A	N/A	5.32	mg/I SO4	yes	
SW9	upstream	Total phosphorus		23/08/2017	N/A	N/A	0.02	mg/I P	yes	
SW9 SW9	upstream	CLL 1.1 ( CD)	Total Ammonia	29/11/2017	1	All results < 1.2 x ELV	0.13	mg/I NH3	yes	
	upstream	Chlorides (as CI)		29/11/2017	N/A	N/A	67.55	mg/l	yes	

<sup>\*</sup>trigger values may be agreed by the Agency outside of licence conditions

	AER Monitor	ing returns su	immary template-WATER/WAST	EWATER(SEWER)			Lic No:	W0089-02		Year	20	)17				
		Table	W2 Visual inspections-Please or	nly enter details wher	e contaminat	ion was observed.										
	Location Reference	Date of inspection				Source of contamination	Corrective acti	on		Comments						
3	3 Licensed Emissions to water and /or wastewater(sewer)-periodic monitoring (non-continuous)															
	Was all monit checklists for Qu	toring carried out lality of Aqueous	Monitoring Data Reported to the EPA? If	External /Internal Lab Quality checklist	Assessment of results checklist			Additional information								
		Emission	ons to water and /or wastewate	r (sewer)-periodic mo	Frequency of	-continuous)	licence or any revision			Unit of			Procedural	reference	Annual mass load	
		released to	Parameter/ SubstanceNote 1	Type of sample	monitoring	Averaging period	therof <sup>Note 2</sup>	Licence Compliance criteria	Measured value	measurement	Compliant with licence	Method of analysis	reference source			Comments
		SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT		<b></b>	
			ncluded as a reportable parameter ues (ELV) do not apply to your licence plea	ase compare results against	EQS for Surface w	rater or relevant recept	or quality standards									
	Continuous n	nonitoring						Additional Information								
5	Does your site c	arry out continuo	us emissions to water/sewer monitoring?			No										
	If yes please sur Limit Value (ELV		ntinuous monitoring data below in Table \	W4 and compare it to its re	levant Emission		•			-						
			ment experience downtime? If yes please		V4 below	SELECT										
7	Do you have a pr	roactive service co	ontract for each piece of continuous monit	toring equipment on site?		SELECT										
8	Did abatement s	ystem bypass occ	our during the reporting year? If yes please	complete table W5 below		SELECT										
	Table W4: Su	ımmary of ave	erage emissions -continuous mor	nitoring		-	-									
																1

Emission	Emission released to		ELV or trigger values in licence or any revision thereof	Averaging	Compliance Criteria		Annual Emission for current	Monitoring	Number of ELV exceedences in	
reference no:	released to	Parameter/ Substance	thereoi	Period	Compliance Criteria	Units of measurement	reporting year (kg)	downtime (nours)	reporting year	Comments
	SELECT	SELECT		SELECT	SELECT	SELECT				
	SELECT	SELECT		SELECT	SELECT	SELECT			·	

note 1: Volumetric flow shall be included as a reportable parameter.

Table W5: Abatement system bypass reporting table

Date	Duration	Location	Resultant emissions	Reason for	Corrective action*	Was a report submitted	When was this report
	(hours)			bypass		to the EPA?	submitted?
						SELECT	

<sup>\*</sup>Measures taken or proposed to reduce or limit bypass frequency

Bund/Pipeline tes	ting template				Lic No:	W0089-02		Year	201	7				
Bund testing	1	dropdown menu cli	ck to see ontions				Additional information					•		_
	ur licence to undertake in	ntegrity testing on bunds and con	•	olease fill out table B1 below	v listing all new bunds									
		to all bunds which failed the inte ds outside the licenced testing p			mobile bunds must be									
Please provide integrity				,		Yes 3 years		-						
Does the site maintain	a register of bunds, unde	erground pipelines (including stor	mwater and foul), Tanks, sun	nps and containers? (contai	ners refers to									
3 "Chemstore" type units 4 How many bunds are o						Yes 1		-						
5 How many of these bur	nds have been tested with	hin the required test schedule?				1								
6 How many mobile bund 7 Are the mobile bunds in		schedule?				0 N/A		+						
8 How many of these mo	bile bunds have been tes	sted within the required test sche	dule?			N/A								
9 How many sumps on si 10 How many of these sur						N/A N/A		-						
Please list any sump in	tegrity failures in table B	31					-	<b>⊣</b> <b>−</b>						
11 Do all sumps and cham		d alarms? In a maintenance and testing pro	ogramme?			Yes Yes		_						
		ur integrity test programme?	ogramme:			N/A								
Tabl	e P1: Cummany details of	bund /containment structure int	agritu tast	Т										
Tabi	e B1. Summary details of	bund /contamment structure int	egitty test											
														Results of
D									Integrity reports		1-4		Cabadalad data	retest(if in
Bund/Containment structure ID	Туре	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	current reporting ye
	SELECT					SELECT			SELECT	SELECT		SELECT		
* Capacity required should comp	SELECT lly with 25% or 110% containment r	Landard Company				SELECT			SELECT	SELECT		SELECT		
		ruie aspetalied in your licence					Commentary							•
	en carried out in accorda	rue assetalled in your licence ince with licence requirements ar	nd are all structures tested	hunding and storage guidal	nee	Vac	Commentary							
Has integrity testing be 15 in line with BS8007/EP/ 16 Are channels/transfer s	en carried out in accorda A Guidance?	ince with licence requirements ar	nd are all structures tested	bunding and storage guidel	nes	Yes Yes	Commentary							
15 in line with BS8007/EP/ 16 Are channels/transfer s	en carried out in accorda A Guidance? systems to remote contain	ince with licence requirements ar		bunding and storage guidel	nes		Commentary							
15 in line with BS8007/EP/ 16 Are channels/transfer s	en carried out in accorda A Guidance? systems to remote contain	nnce with licence requirements ar nment systems tested?		bunding and storage guidel	<u>nes</u>	Yes	Commentary							
15 in line with BS8007/EP/ 16 Are channels/transfer s 17 Are channels/transfer	en carried out in accorda A Guidance? systems to remote contain	nnce with licence requirements ar nment systems tested?		bunding and storage guidel	nes	Yes	Commentary							
15 in line with BS8007/EP/ 16 Are channels/transfer s 17 Are channels/transfer Pipeline/undergro	en carried out in accorda A Guidance? systems to remote contain systems compliant in both und structure testing	nnce with licence requirements ar nment systems tested?			_	Yes	Commentary	]						
15 in line with BS8007/EP/ 16 Are channels/transfer s 17 Are channels/transfer Pipeline/undergro Are you required by yo 1 all underground structu	en carried out in accorda A Guidance? systems to remote contain systems compliant in both und structure testing ur licence to undertake in ures and pipelines on site	ince with licence requirements ar nment systems tested? h integrity and available volume? Integrity testing * on underground which failed the integrity test a	structures e.g. pipelines or s	umps etc ? if yes please fill	out table 2 below listing	Yes Yes	Commentary							
15 in line with BS8007/EP/ 16 Are channels/transfer s 17 Are channels/transfer Pipeline/undergro Are you required by yo 1 all underground struct 2 Please provide integrity	en carried out in accorda A Guidance? yystems to remote contain systems compliant in both und structure testing ur licence to undertake in ures and pipelines on site y testing frequency perioc	ince with licence requirements ar nment systems tested? h integrity and available volume? Integrity testing * on underground which failed the integrity test a	structures e.g. pipelines or s nd all which have not been t	umps etc ? if yes please fill ested withing the integrity	out table 2 below listing	Yes Yes	Commentary							
15 in line with BS8007/EP. 16 Are channels/transfer s 17 Are channels/transfer Pipeline/undergro Are you required by yo 1 all underground struct 2 Please provide integrity *please note integrity t	en carried out in accorda A Guidance? systems to remote contain systems compliant in both und structure testing ur licence to undertake in ures and pipelines on site y testing frequency period esting means water tight.	ince with licence requirements ar nment systems tested? h integrity and available volume? Integrity testing* on underground which failed the integrity test a d mess testing for process and foul	structures e.g. pipelines or s nd all which have not been t pipelines (as required under	umps etc ? if yes please fill ested withing the integrity	out table 2 below listing	Yes Yes	Commentary							
15 in line with BS8007/EP. 16 Are channels/transfer s 17 Are channels/transfer Pipeline/undergro Are you required by yo 1 all underground struct 2 Please provide integrity *please note integrity t	en carried out in accorda A Guidance? systems to remote contain systems compliant in both und structure testing ur licence to undertake in ures and pipelines on site y testing frequency period esting means water tight.	ince with licence requirements ar nment systems tested? h integrity and available volume? Integrity testing * on underground which failed the integrity test a d	structures e.g. pipelines or s nd all which have not been t pipelines (as required under	umps etc ? if yes please fill ested withing the integrity	out table 2 below listing	Yes Yes	Commentary					1		
15 in line with BS8007/EP. 16 Are channels/transfer s 17 Are channels/transfer Pipeline/undergro Are you required by yo 1 all underground struct 2 Please provide integrity *please note integrity t	en carried out in accorda A Guidance? systems to remote contain systems compliant in both und structure testing ur licence to undertake in ures and pipelines on site y testing frequency period esting means water tight.	ince with licence requirements ar nment systems tested? h integrity and available volume? Integrity testing* on underground which failed the integrity test a d mess testing for process and foul	structures e.g. pipelines or s nd all which have not been t pipelines (as required under	umps etc ? if yes please fill ested withing the integrity	out table 2 below listing	Yes Yes	Commentary					]		
15 in line with BS8007/EP. 16 Are channels/transfer s 17 Are channels/transfer Pipeline/undergro Are you required by yo 1 all underground struct 2 Please provide integrity *please note integrity t	en carried out in accorda A Guidance? systems to remote contain systems compliant in both und structure testing ur licence to undertake in ures and pipelines on site y testing frequency period esting means water tight.	ince with licence requirements ar nment systems tested? h integrity and available volume? Integrity testing* on underground which failed the integrity test a d mess testing for process and foul	structures e.g. pipelines or s nd all which have not been t pipelines (as required under	umps etc ? if yes please fill ested withing the integrity your licence)	out table 2 below listing	Yes Yes	Commentary							
15 in line with BS8007/EP. 16 Are channels/transfer s 17 Are channels/transfer Pipeline/undergro Are you required by yo 1 all underground struct 2 Please provide integrity *please note integrity t	en carried out in accorda A Guidance? systems to remote contain systems compliant in both und structure testing ur licence to undertake in ures and pipelines on site y testing frequency period esting means water tight.	ince with licence requirements ar nment systems tested? h integrity and available volume? Integrity testing* on underground which failed the integrity test a d mess testing for process and foul	structures e.g. pipelines or s nd all which have not been t pipelines (as required under ntegrity test	umps etc ? if yes please fill ested withing the integrity your licence)	out table 2 below listing	Yes Yes	Commentary	Integrity test						
15 in line with 838007/EP. 16 Are channels/transfer 17 Are channels/transfer Pipeline/undergro Are you required by yo 1 all underground struct 2 Please provide integrity *please note integrity Table	en carried out in accorda A Guidance?  systems to remote contain systems compliant in both und structure testing ur licence to undertake in ures and pipelines on site t testing frequency perioc esting means water tight B2: Summary details of pi	ince with licence requirements ar nment systems tested? h integrity and available volume?   Integrity testing * on underground which failed the integrity test a d intess testing for process and foul ipeline/underground structures in the system of the sys	structures e.g. pipelines or s nd all which have not been to pipelines (as required under ntegrity test Does this structure have	umps etc ? if yes please fill ested withing the integrity your licence)	out table 2 below listing test period as specified	Yes Yes Yes 3 years		failure explanation	Corrective action		Results of retest if in current			
15 in line with BS8007/EP. 16 Are channels/transfer s 17 Are channels/transfer Pipeline/undergro Are you required by yo 1 all underground struct 2 Please provide integrity *please note integrity t	en carried out in accorda A Guidance? systems to remote contain systems compliant in both und structure testing ur licence to undertake in ures and pipelines on site y testing frequency period esting means water tight.	ince with licence requirements ar nment systems tested? h integrity and available volume? Integrity testing* on underground which failed the integrity test a d mess testing for process and foul	structures e.g. pipelines or s nd all which have not been t pipelines (as required under ntegrity test	umps etc ? if yes please fill ested withing the integrity your licence)	out table 2 below listing	Yes Yes Yes 3 years	Commentary  Results of test SELECT		Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)			
15 in line with 838007/EP. 16 Are channels/transfer 17 Are channels/transfer Pipeline/undergro Are you required by yo 1 all underground struct 2 Please provide integrity *please note integrity Table	en carried out in accorda A Guidance? systems to remote contain systems compliant in both und structure testing ur licence to undertake in ures and pipelines on site testing frequency perioc esting means water tight B2: Summary details of pi	ince with licence requirements an innent systems tested? In integrity and available volume? It is a support of the systems of	structures e.g. pipelines or s nd all which have not been to pipelines (as required under ntegrity test Does this structure have Secondary containment?	umps etc ? if yes please fill ested withing the integrity your licence)  Type of secondary containment	out table 2 below listing test period as specified	Yes Yes Yes 3 years	Results of test	failure explanation			reporting year)			
15 in line with 838007/EP. 16 Are channels/transfer 17 Are channels/transfer Pipeline/undergro Are you required by yo 1 all underground struct 2 Please provide integrity *please note integrity Table	en carried out in accorda A Guidance? systems to remote contain systems compliant in both und structure testing ur licence to undertake in ures and pipelines on site testing frequency perioc esting means water tight B2: Summary details of pi	ince with licence requirements an innent systems tested? In integrity and available volume? It is a support of the systems of	structures e.g. pipelines or s nd all which have not been to pipelines (as required under ntegrity test Does this structure have Secondary containment?	umps etc ? if yes please fill ested withing the integrity your licence)  Type of secondary containment	out table 2 below listing test period as specified	Yes Yes Yes 3 years	Results of test	failure explanation			reporting year)			
15 in line with 838007/EP. 16 Are channels/transfer 17 Are channels/transfer Pipeline/undergro Are you required by yo 1 all underground struct 2 Please provide integrity *please note integrity Table	en carried out in accorda A Guidance? systems to remote contain systems compliant in both und structure testing ur licence to undertake in ures and pipelines on site testing frequency perioc esting means water tight B2: Summary details of pi	ince with licence requirements an innent systems tested? In integrity and available volume? It is a support of the systems of	structures e.g. pipelines or s nd all which have not been to pipelines (as required under ntegrity test Does this structure have Secondary containment?	umps etc ? if yes please fill ested withing the integrity your licence)  Type of secondary containment	out table 2 below listing test period as specified	Yes Yes Yes 3 years	Results of test	failure explanation			reporting year)			
15 in line with 838007/EP. 16 Are channels/transfer 17 Are channels/transfer Pipeline/undergro Are you required by yo 1 all underground struct 2 Please provide integrity *please note integrity Table	en carried out in accorda A Guidance? systems to remote contain systems compliant in both und structure testing ur licence to undertake in ures and pipelines on site testing frequency perioc esting means water tight B2: Summary details of pi	ince with licence requirements an innent systems tested? In integrity and available volume? It is a support of the systems of	structures e.g. pipelines or s nd all which have not been to pipelines (as required under ntegrity test Does this structure have Secondary containment?	umps etc ? if yes please fill ested withing the integrity your licence)  Type of secondary containment	out table 2 below listing test period as specified	Yes Yes Yes 3 years	Results of test	failure explanation			reporting year)			
15 in line with B38007/EP. 15 Are channels/transfer 17 Are channels/transfer Pipeline/undergro Are you required by yo 1 all underground struct. 2 Please provide integrity *please note integrity Table	en carried out in accorda A Guidance? systems to remote contain systems compliant in both und structure testing ur licence to undertake in ures and pipelines on site testing frequency perioc esting means water tight B2: Summary details of pi	ince with licence requirements an innent systems tested?  In integrity and available volume?  Integrity testing * on underground which failed the integrity test at different control of the control of t	structures e.g. pipelines or s nd all which have not been to pipelines (as required under ntegrity test Does this structure have Secondary containment?	umps etc ? if yes please fill ested withing the integrity your licence)  Type of secondary containment  SELECT	out table 2 below listing test period as specified  Type integrity testing SELECT	Yes Yes Yes 3 years	Results of test	failure explanation			reporting year)			

Groundwater/Soil monitoring template	Lic No: W0089-02	Year	2017
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		Comments	
1 Are you required to carry out groundwater monitoring as part of your licence requirements?	yes		Please provide an interpretation of groundwater monitoring data in the
2 Are you required to carry out soil monitoring as part of your licence requirements?	no		interpretation box below or if you require additional space please include a
<sup>3</sup> Do you extract groundwater for use on site? If yes please specify use in comment section	no		groundwater/contaminated land monitoring results interpretaion as an additional section in this AER
Do monitoring results show that groundwater generic assessment criteria 4 such as GTVs or IGVs are exceeded or is there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below.  template	yes		
5 Is the contamination related to operations at the facility (either current and/or historic)	yes		
6 Have actions been taken to address contamination issues?If yes please summarise			
remediation strategies proposed/undertaken for the site	yes		
7 Please specify the proposed time frame for the remediation strategy	N/A		Groundwater contamination is evident at monitoring locations on the
8 Is there a licence condition to carry out/update ELRA for the site?	yes		western boundary of the site. Investigation and assessment of the
9 Has any type of risk assesment been carried out for the site?	yes		contamination was updated in Q4 2017. Ongoing monitoring is
10 Has a Conceptual Site Model been developed for the site?	yes		recommended to ensure that any further deterioration and/or off site
11 Have potential receptors been identified on and off site?	yes		impacts will be detected. Reports, including a groundwater risk assessment,
12 Is there evidence that contamination is migrating offsite?	no		are uploaded to EDEN.

Table 1: Upgradient Groundwater monitoring results

	Sample				Maximum					Upward trend in pollutant concentration
Date of sampling	location reference	Parameter/ Substance	Methodology	Monitoring frequency	Concentration+	Average Concentration+	unit	GTV's*	SW EQS	over last 5 years of monitoring data
31/03/2017		Total ammonia	Konelab Aguakem	Quarterly	0.17	0.06	mg/l NH3	0.065-0.175	<0.014	or monitoring data
31/03/2017		Conductivity	Electrometry	Quarterly	297	274	μS/cm @20oC	800-1875	N/A	
12/05/2017		Total ammonia	Konelab Aguakem	Quarterly	207	0.11	mg/I NH3	0.065-0.175	<0.014	
12/05/2017		Conductivity	Electrometry	Quarterly		255	μS/cm @20oC	800-1875	N/A	
23/08/2017		Total ammonia	Konelab Aguakem	Quarterly		0.06	mg/l NH3	0.065-0.175	<0.014	
23/08/2017		Conductivity	Electrometry	Quarterly		233	μS/cm @20oC	800-1875	N/A	
23/08/2017		Chloride	Konelab Aguakem	Annual		28.49	mg/l	24-187.5	250	
23/08/2017	GW4	Boron	ICP-MS	Annual		0.01	mg/l	0.75	N/A	
23/08/2017	GW4	Cadmium	ICP-MS	Annual		<20.000	μg/l	3.75	N/A	
23/08/2017	GW4	Calcium	ICP-MS	Annual		57.3	mg/l	N/A	N/A	
23/08/2017	GW4	Chromium (total)	ICP-MS	Annual		<20.000	μg/l	37.5	4.7	
23/08/2017	GW4	Copper	ICP-MS	Annual		<20.000	μg/l	1500	5	
23/08/2017	GW4	Iron	ICP-MS	Annual		719	μg/l		N/A	
23/08/2017	GW4	Lead	ICP-MS	Annual		9.76	μg/l	18.75	7.2	
23/08/2017	GW4	Magnesium	ICP-MS	Annual		4.04	mg/l	N/A	N/A	
23/08/2017	GW4	Manganese	ICP-MS	Annual		946	μg/l	N/A	N/A	
23/08/2017	GW4	Nickel	ICP-MS	Annual		<20.000	μg/l	15	20	
23/08/2017	GW4	Potassium	ICP-MS	Annual		<2.000	mg/l	N/A	N/A	,
23/08/2017	GW4	Zinc	ICP-MS	Annual		100	μg/l	N/A	40	
23/08/2017	GW4	Cyanide (total)	Steam Distillation & Colourimetry	Annual		<1.000	µg/I	37.5	10	
23/08/2017	GW4	Flouride	Konelab Aquakem	Annual		0.1	mg/l	N/A	0.5	
23/08/2017	GW4	Mercury	ICP-MS	Annual		<10.000	μg/l			
23/08/2017	GW4	Sulphate	Konelab Aquakem	Annual		9.76	mg/l SO4	187.5	N/A	
23/08/2017	GW4	Total Phosphorous	ICP-MS	Annual		0.27	mg/l P	N/A	0.075	
29/11/2017	GW4	Total ammonia	Konelab Aquakem	Quarterly		0.17	mg/l NH3	0.065-0.175	<0.014	
29/11/2017	GW4	Conductivity	Electrometry	Quarterly		297	μS/cm @20oC	800-1875	N/A	
31/03/2017	GW8	Total ammonia	Konelab Aquakem	Quarterly	0.98	0.17	mg/l NH3	0.065-0.175	<0.014	yes
31/03/2017		Conductivity	Electrometry	Quarterly	373	373	μS/cm @20oC	800-1875		yes
12/05/2017	GW8	Total ammonia	Konelab Aquakem	Quarterly		0.98	mg/l NH3	0.065-0.175	<0.014	yes
12/05/2017		Conductivity	Electrometry	Quarterly		123	μS/cm @20oC	800-1875		yes
23/08/2017	GW8	Total ammonia	Konelab Aquakem	Quarterly	1	0.22	mg/l NH3	24-187.5	250	yes

Groundw	ater/Soil mo	nitoring template	e		Lic No:	W0089-02		Year	2017	
23/08/201	7 GW8	Conductivity	Electrometry	Quarterly		253	μS/cm @20oC	0.75	N/A	yes
23/08/201	7 GW8	Chloride	Konelab Aquakem	Annual		31.53	mg/l	3.75	N/A	yes
23/08/201	7 GW8	Boron	ICP-MS	Annual		0.01	mg/l	N/A	N/A	
23/08/201	7 GW8	Cadmium	ICP-MS	Annual		<20.000	μg/l	37.5	4.7	
23/08/201	7 GW8	Calcium	ICP-MS	Annual		42.3	mg/l	1500	5	
23/08/201	7 GW8	Chromium (total)	ICP-MS	Annual		<20.000	μg/l		N/A	
23/08/201	7 GW8	Copper	ICP-MS	Annual		30	μg/l	18.75	7.2	
23/08/201	7 GW8	Iron	ICP-MS	Annual		1137	μg/l	N/A	N/A	
23/08/201	7 GW8	Lead	ICP-MS	Annual		<20.000	μg/l	N/A	N/A	
23/08/201	7 GW8	Magnesium	ICP-MS	Annual		8.9	mg/l	15	20	
23/08/201	7 GW8	Manganese	ICP-MS	Annual		1570	μg/l	N/A	N/A	
23/08/201	7 GW8	Nickel	ICP-MS	Annual		<20.000	μg/l	N/A	40	
23/08/201	7 GW8	Potassium	ICP-MS	Annual		<2.000	mg/l	37.5	10	
23/08/201	7 GW8	Zinc	ICP-MS	Annual		232	μg/I	N/A	0.5	
23/08/201	7 GW8	Cyanide (total)	Colourimetry	Annual		<1.000	μg/l			
23/08/201	7 GW8	Flouride	Konelab Aquakem	Annual		0.17	mg/l	187.5	N/A	
23/08/201	7 GW8	Mercury	ICP-MS	Annual		<10.000	μg/l	N/A	0.075	
23/08/201	7 GW8	Sulphate	Konelab Aquakem	Annual		10.13	mg/l SO4	0.065-0.175	< 0.014	
23/08/201	7 GW8	Total Phosphorous	ICP-MS	Annual		0.21	mg/l P	800-1875	N/A	
29/11/201	7 GW8	Total ammonia	Konelab Aquakem	Quarterly		0.16	mg/l NH3	0.065-0.175	<0.014	yes
29/11/201	7 GW8	Conductivity	Electrometry	Quarterly		323	μS/cm @20oC	800-1875	N/A	yes

<sup>.+</sup> where average indicates arithmetic mean

Table 2: Downgradient Groundwater monitoring results

	Sample									Upward trend in yearly average pollutant concentration
Date of sampling	location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SELECT**	over last 5 years of monitoring data
31/03/2017	GW1	Total ammonia	Konelab Aquakem	Quarterly	0.28	0.28	mg/l NH3	0.065-0.175	<0.014	0
31/03/2017	GW1	Conductivity	Electrometry	Quarterly	274	235	μS/cm @20oC	800-1875	N/A	
12/05/2017	GW1	Total ammonia	Konelab Aquakem	Quarterly		0.23	mg/I NH3	0.065-0.175	<0.014	
12/05/2017	GW1	Conductivity	Electrometry	Quarterly		274	μS/cm @20oC	800-1875	N/A	
29/11/2017	GW1	Total ammonia	Konelab Aquakem	Quarterly		0.26	mg/l NH3	24-187.5	250	
29/11/2017	GW1	Conductivity	Electrometry	Quarterly		245	μS/cm @20oC	0.75	N/A	
29/11/2017	GW1	Chloride	Konelab Aquakem	Annual		32.45	mg/l	3.75	N/A	
29/11/2017	GW1	Boron	ICP-MS	Annual		0.01	mg/l	N/A	N/A	
29/11/2017	GW1	Cadmium	ICP-MS	Annual		<20.000	μg/l	37.5	4.7	
29/11/2017	GW1	Calcium	ICP-MS	Annual		42.5	mg/l	1500	5	
29/11/2017	GW1	Chromium (total)	ICP-MS	Annual		<20.000	μg/l		N/A	
29/11/2017	GW1	Copper	ICP-MS	Annual		<20.000	μg/l	18.75	7.2	
29/11/2017	GW1	Iron	ICP-MS	Annual		4253	μg/l	N/A	N/A	
29/11/2017	GW1	Lead	ICP-MS	Annual		<20.000	μg/l	N/A	N/A	
29/11/2017	GW1	Magnesium	ICP-MS	Annual		6.23	mg/l	15	20	
29/11/2017	GW1	Manganese	ICP-MS	Annual		1474	μg/l	N/A	N/A	
29/11/2017		Nickel	ICP-MS	Annual		<20.000	μg/l	N/A	40	
29/11/2017	GW1	Potassium	ICP-MS	Annual		1.06	mg/l	37.5	10	
29/11/2017	GW1	Zinc	ICP-MS	Annual		136	μg/l	N/A	0.5	
29/11/2017	GW1	Cyanide (total)	Colourimetry	Annual		22	μg/l			
29/11/2017	GW1	Flouride	Konelab Aquakem	Annual		0.1	mg/l	187.5	N/A	
29/11/2017	GW1	Mercury	ICP-MS	Annual		<10.000	μg/l	N/A	0.075	
29/11/2017	GW1	Sulphate	Konelab Aquakem	Annual		8.84	mg/l SO4	0.065-0.175	< 0.014	
29/11/2017	GW1	Total Phosphorous	ICP-MS	Annual		0.53	mg/l P	800-1875	N/A	
31/03/2017		Total ammonia	Konelab Aquakem	Quarterly	0.12	0.05	mg/I NH3	0.065-0.175	<0.014	yes
31/03/2017		Conductivity	Electrometry	Quarterly	304	209	μS/cm @20oC	800-1875	N/A	
12/05/2017	GW2	Total ammonia	Konelab Aquakem	Quarterly		0.04	mg/l NH3	0.065-0.175	< 0.014	yes
12/05/2017		Conductivity	Electrometry	Quarterly		304	μS/cm @20oC	800-1875	N/A	
23/08/2017		Total ammonia	Konelab Aquakem	Quarterly		0.02	mg/l NH3	0.065-0.175	<0.014	yes
23/08/2017		Conductivity	Electrometry	Quarterly		162	μS/cm @20oC	800-1875	N/A	
23/08/2017	GW2	Chloride	Konelab Aquakem	Annual		11.56	mg/l	24-187.5	250	
23/08/2017		Boron	ICP-MS	Annual		0.01	mg/l	0.75	N/A	
23/08/2017	GW2	Cadmium	ICP-MS	Annual		<20.000	μg/l	3.75	N/A	
23/08/2017		Calcium	ICP-MS	Annual		13.8	mg/l	N/A	N/A	
23/08/2017	GW2	Chromium (total)	ICP-MS	Annual		<20.000	μg/l	37.5	4.7	

<sup>.++</sup> maximum concentration indicates the maximum measured concentration from all monitoring results produced during the reporting year

Groundwa	iter/Soii	monitoring template	e		Lic No:	W0089-02		Year	2017	<u>'</u>
23/08/2017	GW2	Copper	ICP-MS	Annual		<20.000	μg/l	1500	5	
23/08/2017	GW2	Iron	ICP-MS	Annual		40	μg/l		N/A	
23/08/2017	GW2	Lead	ICP-MS	Annual		<20.000	μg/l	18.75	7.2	
23/08/2017	GW2	Magnesium	ICP-MS	Annual		1.22	mg/l	N/A	N/A	
23/08/2017		Manganese	ICP-MS	Annual		<20.000	μg/l	N/A	N/A	
23/08/2017		Nickel	ICP-MS	Annual		<20.000	μg/l	15	20	
23/08/2017		Potassium	ICP-MS	Annual		<2.000	mg/l	N/A	N/A	
23/08/2017		Zinc	ICP-MS	Annual	-	1665		N/A	40	
23/08/2017	GW2	ZINC		Annuai		1003	µg/I	N/A	40	
22/00/2047	014/0	Cyanide (total)	Steam Distillation &	Annual		1	μg/l	37.5	10	
23/08/2017			Colourimetry			0.40				
23/08/2017		Flouride	Konelab Aquakem	Annual		0.12	mg/l	N/A	0.5	
23/08/2017		Mercury	ICP-MS	Annual		<10.000	mg/l			
23/08/2017	GW2	Sulphate	Konelab Aquakem	Annual		3.22	mg/l SO4	187.5	N/A	
23/08/2017	GW2	Total Phosphorous	ICP-MS	Annual		0.02	mg/l P	N/A	0.075	
29/11/2017		Total ammonia	Konelab Aquakem	Quarterly		0.12	mg/l NH3	0.065-0.175	< 0.014	ves
29/11/2017	GW2	Conductivity	Electrometry	Quarterly		251	μS/cm @20oC	800-1875	N/A	
31/03/2017		Total ammonia	Konelab Aquakem	Quarterly	0.28	0.28	mg/l NH3	0.065-0.175	<0.014	
31/03/2017					231	229	μS/cm @20oC	800-1875	N/A	
		Conductivity	Electrometry	Quarterly	231	0.1				yes
12/05/2017		Total ammonia	Konelab Aquakem	Quarterly	+		mg/l NH3	0.065-0.175	<0.014	
12/05/2017		Conductivity	Electrometry	Quarterly	1	231	μS/cm @20oC	800-1875	N/A	yes
23/08/2017	GW5	Total ammonia	Konelab Aquakem	Quarterly		0.05	mg/l NH3	0.065-0.175	<0.014	
23/08/2017		Conductivity	Electrometry	Quarterly		116	μS/cm @20oC	800-1875	N/A	
23/08/2017	GW5	Chloride	Konelab Aquakem	Annual		15.16	mg/l	24-187.5	250	
23/08/2017	GW5	Boron	ICP-MS	Annual		0.02	mg/l	0.75	N/A	
23/08/2017	GW5	Cadmium	ICP-MS	Annual		<20.000	μg/l	3.75	N/A	
23/08/2017		Calcium	ICP-MS	Annual		13.3	mg/l	N/A	N/A	
23/08/2017		Chromium (total)	ICP-MS	Annual		<20.000	μg/l	37.5	4.7	
23/08/2017		Copper	ICP-MS	Annual		<20.000	μg/l	1500		
23/08/2017		Iron	ICP-MS		-	619		1300	N/A	
				Annual			μg/l	40.75	N/A	
23/08/2017		Lead	ICP-MS	Annual		<20.000	µg/I	18.75	7.2	
23/08/2017		Magnesium	ICP-MS	Annual		2.09	mg/l	N/A	N/A	
23/08/2017	GW5	Manganese	ICP-MS	Annual		259	μg/l	N/A	N/A	
23/08/2017	GW5	Nickel	ICP-MS	Annual		<20.000	μg/l	15	20	
23/08/2017	GW5	Potassium	ICP-MS	Annual		<2.000	mg/l	N/A	N/A	
23/08/2017	GW5	Zinc	ICP-MS	Annual		157	μg/l	N/A	40	
		0 11 (1 1 1)	Steam Distillation &			4 000	"	27.5	4.0	
23/08/2017	GW5	Cyanide (total)	Colourimetry	Annual		<1.000	μg/l	37.5	10	
23/08/2017	GW5	Flouride	Konelab Aquakem	Annual		0.21	mg/l	N/A	0.5	
23/08/2017		Mercury	ICP-MS	Annual		<10.000	mg/l	,		
23/08/2017		Sulphate	Konelab Aquakem	Annual		3.27	mg/l SO4	187.5	N/A	
				7 1111001			1116/1301	107.5	.,,,,	
22/00/2017	CWE	Total Dh	ICD ME	Annual		0.05	// 0	h1/*	0.075	
23/08/2017		Total Phosphorous	ICP-MS	Annual	1	0.00	mg/I P	N/A	0.075	
29/11/2017		Total ammonia	Konelab Aquakem	Quarterly	1	0.11	mg/l NH3	0.065-0.175	<0.014	
29/11/2017		Conductivity	Electrometry	Quarterly	1	129	μS/cm @20oC	800-1875	N/A	yes
31/03/2017		Total ammonia	Konelab Aquakem	Quarterly	4.49	3.23	mg/l NH3	0.065-0.175	<0.014	
31/03/2017		Conductivity	Electrometry	Quarterly	388	301	μS/cm @20oC	800-1875	N/A	
12/05/2017	GW6	Total ammonia	Konelab Aquakem	Quarterly		4.49	mg/l NH3	0.065-0.175	<0.014	
12/05/2017	GW6	Conductivity	Electrometry	Quarterly		266	μS/cm @20oC	800-1875	N/A	yes
23/08/2017		Total ammonia	Konelab Aquakem	Quarterly		2.05	mg/l NH3	0.065-0.175	<0.014	
23/08/2017		Conductivity	Electrometry	Quarterly		388	μS/cm @20oC	800-1875		yes
23/08/2017		Chloride	Konelab Aquakem	Annual	1	45.27	mg/l	24-187.5	250	
23/08/2017		Boron	ICP-MS	Annual	+	0.01	mg/l	0.75	N/A	,
23/08/2017		Cadmium	ICP-MS	Annual	1	<20.000		3.75	N/A	
					+	<20.000 56.4	μg/l			
23/08/2017		Calcium	ICP-MS	Annual	1		mg/l	N/A	N/A	
23/08/2017		Chromium (total)	ICP-MS	Annual		<20.000	µg/I	37.5	4.7	
23/08/2017		Copper	ICP-MS	Annual		<20.000	μg/l	1500	5	
23/08/2017	GW6	Iron	ICP-MS	Annual	1	3308	μg/l		N/A	
23/08/2017		Lead	ICP-MS	Annual		<20.000	µg/I	18.75	7.2	
23/08/2017	GW6	Magnesium	ICP-MS	Annual		7.67	mg/l	N/A	N/A	
23/08/2017		Manganese	ICP-MS	Annual		2187	μg/l	N/A	N/A	
23/08/2017		Nickel	ICP-MS	Annual		<20.000	μg/l	15	20	
23/08/2017		Potassium	ICP-MS	Annual	1	1.66	mg/l	N/A	N/A	
		Zinc	ICP-MS	Annual	+	134		N/A	40	
23/09/2017				miliuai		134	μg/l	IN/A	40	
23/08/2017	GVVO		Steam Distillation &							

Groundwa	ter/Soil n	nonitoring template	e		Lic No:	W0089-02 Year			2017		
23/08/2017	GW6	Flouride	Konelab Aquakem	Annual		0.13	mg/l	N/A	0.5		
23/08/2017	GW6	Mercury	ICP-MS	Annual		<10.000	mg/l				
23/08/2017	GW6	Sulphate	Konelab Aquakem	Annual		10.19	mg/l SO4	187.5	N/A		
23/08/2017	GW6	Total Phosphorous	ICP-MS	Annual		0.1	mg/l P	N/A	0.075		
31/03/2017	GW7	Total ammonia	Konelab Aquakem	Quarterly	11.91	8.26	mg/l NH3	0.065-0.175	< 0.014	yes	
31/03/2017	GW7	Conductivity	Electrometry	Quarterly	794	794	μS/cm @20oC	800-1875	N/A	yes	
12/05/2017	GW7	Total ammonia	Konelab Aquakem	Quarterly		12.92	mg/l NH3	0.065-0.175	< 0.014	yes	
12/05/2017	GW7	Conductivity	Electrometry	Quarterly		716	μS/cm @20oC	800-1875	N/A	yes	
23/08/2017	GW7	Total ammonia	Konelab Aquakem	Quarterly		11.91	mg/l NH3	0.065-0.175	< 0.014	yes	
23/08/2017	GW7	Conductivity	Electrometry	Quarterly		604	μS/cm @20oC	800-1875	N/A	yes	
23/08/2017	GW7	Chloride	Konelab Aquakem	Annual		43.86	mg/l	24-187.5	250	yes	
23/08/2017	GW7	Boron	ICP-MS	Annual		0.07	mg/l	0.75	N/A		
23/08/2017	GW7	Cadmium	ICP-MS	Annual		<20.000	μg/l	3.75	N/A		
23/08/2017	GW7	Calcium	ICP-MS	Annual		106.3	mg/l	N/A	N/A		
23/08/2017	GW7	Chromium (total)	ICP-MS	Annual		<20.000	μg/l	37.5	4.7		
23/08/2017	GW7	Copper	ICP-MS	Annual		<20.000	μg/l	1500	5		
23/08/2017	GW7	Iron	ICP-MS	Annual		10227	μg/l		N/A		
23/08/2017	GW7	Lead	ICP-MS	Annual		<20.000	μg/l	18.75	7.2		
23/08/2017	GW7	Magnesium	ICP-MS	Annual		10.6	mg/l	N/A	N/A		
23/08/2017	GW7	Manganese	ICP-MS	Annual		4087	μg/l	N/A	N/A		
23/08/2017	GW7	Nickel	ICP-MS	Annual		<20.000	μg/l	15	20		
23/08/2017	GW7	Potassium	ICP-MS	Annual		8.78	mg/l	N/A	N/A		
23/08/2017	GW7	Zinc	ICP-MS	Annual		155	μg/l	N/A	40		
23/08/2017	GW7	Cyanide (total)	Colourimetry	Annual		4	μg/l	37.5	10		
23/08/2017	GW7	Flouride	Konelab Aquakem	Annual		0.12	mg/l	N/A	0.5		
23/08/2017	GW7	Mercury	ICP-MS	Annual		<10.000	mg/l				
23/08/2017	GW7	Sulphate	Konelab Aquakem	Annual		7.67	mg/l SO4	187.5	N/A		
23/08/2017		Total Phosphorous	ICP-MS	Annual		0.11	mg/l P	N/A	0.075		
29/11/2017		Total ammonia	Konelab Aquakem	Quarterly		5.97	mg/l NH3	0.065-0.175	< 0.014		
29/11/2017	GW7	Conductivity	Electrometry	Quarterly		690	μS/cm @20oC	800-1875	N/A	yes	

\*please note exceedance of generic assessment criteria (GAC) such as a Groundwater Threshold Value (GTV) or an Interim Guideline Value (IGV) or an upward trend in results for a substance indicates that further interpretation of monitoring results is required. In addition to completing the above table, please complete the Groundwater Monitoring Guideline Template Report at the link provided and submit separately through ALDER as a licensee return or as otherwise instructed by the

Groundwater monitoring template

More information on the use of soil and groundwater standards/ generic assessment criteria (GAC)
and risk assessment tools is available in the EPA published guidance (see the link in G31)

\*\*Depending on location of the site and proximity to other sensitive receptors alternative Receptor based Water Quality standards should be used in addition to the GTV e.g. if the site is close to surface water compare to Surface Water Environmental Quality Standards (SWEQS), If the site is close to a drinking water supply compare results to the Drinking Water Standards (DWS)

	Groundwater	Drinking water		
urface water	regulations	(private supply)	Drinking water (public	Interim Guideline
EQS	GTV's	standards	supply) standards	Values (IGV)

#### Table 3: Soil results

	Sample						
Date of	location	Parameter/		Monitoring	Maximum	Average	
sampling	reference	Substance	Methodology	frequency	Concentration	Concentration	unit
							SELECT
							SELECT

Where additional detail is required please enter it here in 200 words or less

# Environmental Liabilities template Lic No: W0089-02 Year 2017

Click here to access EPA guidance on Environmental Liabilities and Financial provision

			Commentary
1	ELRA initial agreement status	Submitted and agreed by EPA	
2	ELRA review status	SELECT	
3	Amount of Financial Provision cover required as determined by the latest ELRA	Specify	
4	Financial Provision for ELRA status	SELECT	
5	Financial Provision for ELRA - amount of cover	Specify	
6	Financial Provision for ELRA - type	SELECT	
7	Financial provision for ELRA expiry date	Enter expiry date	
8	Closure plan initial agreement status	SELECT	
9	Closure plan review status	SELECT	
10	Financial Provision for Closure status	SELECT	
11	Financial Provision for Closure - amount of cover	Specify	
12	Financial Provision for Closure - type	SELECT	
13_	Financial provision for Closure expiry date	Enter expiry date	

	<b>Environmental Management Programme/Continuous Improvement Programme</b>	template	Lic No:	W0089-02	Year	2017
	Highlighted cells contain dropdown menu click to view		Additional Information		-	
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information		Site procedures make up the EM	S		
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes				
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes				
2	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes				

<b>Environmental Management Prog</b>	ramme (EMP) report				
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
	Maintain/Improve landfill gas		Regular & frequent field gas		Improved Environmental
Reduction of emissions to Air	extraction regieme	Ongoing	balancing	Individual	Management Practices
			Consultants retained to		
	Ensure contaminated		monitor and make		
	groundwater/surface water		recommendations for on		
	does not impact of site		site GW contamination		Remediation of
Groundwater protection	receptors	Ongoing	issues	Individual	contamination on site

Noise monitoring summary report Lic No:	W0089-02	Year	2017
1 Was noise monitoring a licence requirement for the AER period?  If yes please fill in table N1 noise summary below  Was noise monitoring carried out using the EPA Guidance note, including note NG4  completion of the "Checklist for noise measurement report" included in the note NG4  3 Does your site have a noise reduction plan  4 When was the noise reduction plan last updated?  5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since	Yes No N/A		

Table N1: No	oise monitoring summa	ry									
Date of monitoring	Time period	Noise location (on site)	Noise sensitive location - NSL (if applicable)	LA <sub>eq</sub>	LA <sub>90</sub>	LA <sub>10</sub>	LA <sub>max</sub>	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is <u>site_compliant</u> with noise limits (day/evening/night)?
15/05/2017	12:12 - 13.42	N1		39			69.90	No		By EPA agreement, nighttime monitoring not required	Yes
15/05/2017	09:02 - 10:33	N6		46	36	49	66.80	No		By EPA agreement, nighttime monitoring not required	Yes
15/05/2017	10:37 - 12:08	N7		49	39	51	85.20	No		By EPA agreement, nighttime monitoring not required	Yes
15/05/2017	' 13:49 – 15:21	N10		46	38	48	79.60	No		By EPA agreement, nighttime monitoring not required	Yes
15/05/2017	' 15:24 - 16.49		N12	50	34	49	81.80	No		By EPA agreement, nighttime monitoring not required	Yes

<sup>\*</sup>Please ensure that a tonal analysis has been carried out as per guidance note NG4. These records must be maintained onsite for future inspection

If noise limits exceeded as a result of noise attributed to site activities, please choose the corrective action from the following options?	SELECT
** please explain the reason for not taking action/resolution of noise issues?	
Any additional comments? (less than 200 words)	

Resource Usage/Energy efficiency summary Lic No: W0089-02 Year 2017

1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below

Is the site a member of any accredited programmes for reducing energy usage/water conservation Industry Energy Network (LIEN)

Additional information

Cork County Council has

energy team in

operation countywide

N/A

Sep-15

SELECT

2 such as the SEAI programme linked to the right? If yes please list them in additional information

SELECT

Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage 3 in additional information

Table R1 Energy usag	e on site			
Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	30.37	16.31	N/A	N/A
Total Energy Generated (MWHrs)	0	0		
Total Renewable Energy Generated (	0	0		
Electricity Consumption (MWHrs)	30.37	16.31		N/A
Fossil Fuels Consumption:	N/A			
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)				
Natural gas (m3)				
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				
Renewable energy generated on site  * where consumption of energy can lead to the second control of the second				

ease or decrease compared to the previous reporting year.

\*\* where site production information is available please enter percentage increase or decrease compared to previous year

Table R2 Water usage	e on site				Water Emissions	Water Consumption	
				Energy		Volume used i.e not	
			compared to			discharged to	
	Water extracted	Water extracted	previous	vs overall site	back to	environment e.g.	
Water use	Previous year m3/yr.	Current year m3/yr.	reporting year**	production*	environment(m <sup>3</sup> yr):	released as steam m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply							
Recycled water							
Total							

\* where consumption of water can be compared to overall site production please enter this information as percentage increase or decrease compared to the previous reporting year.

\*\* where site production information is available please enter percentage increase or decrease compared to previous year

Table R3 Waste Stream Summary		]			
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)					
Non-Hazardous (Tonnes)					

lesourc	e Usage/Energy efficiency su	mmary			Lic No:	W0089-02		Year	2017
	Table R4: Energy Au	dit finding recommenda	itions						
•			Description of		Predicted energy				Status and
	Date of audit	Recommendations	Measures proposed	Origin of measures	savings %	Implementation date	Responsibility	Completion date	comments
			Replace existing						
		Replace existing	lighting with						
		lighting with modern,	modern, more						
		more efficient LED	efficient LED lights						
	Sep-15	lights and sensors.	and sensors.	energy audit	33	2016	Facility Manager	Dec-1	6 Complete
				SELECT					
				SELECT					

Table R5: Power Generation: Where	power is generated onsi	te (e.g. power generat	ion facilities/food ar	on facilities/food and drink industry)please complete the following info				
	Unit ID	Unit ID	Unit ID	Station Total				
Technology								
Primary Fuel								
Thermal Efficiency								
Unit Date of Commission								
Total Starts for year								
Total Running Time								
Total Electricity Generated (GWH)								
House Load (GWH)								
KWH per Litre of Process Water								
KWH per Litre of Total Water used or	n Site							

Complaints and	Incidents summary templa	ate			Lic No:	W0089-02		Year	2017	7		Ī		
		Complaints										-		•
		·			Additional inform	ation								
Have you received	any environmental complaints in th	on current reporting year? If yes	losco complete cummany											
riave you received		eived on site in table 1 below	nease complete summary	No										
	details of complaints rec	cived on site in table 1 below		140		3								
Table 1	1 Complaints summary													
			Brief description of											
			complaint (Free txt <20	Corrective action< 20			Further							
Date	Category	Other type (please specify)	words)	words	Resolution status	Resolution date	information							
•	SELECT				SELECT									
	SELECT				SELECT									
	SELECT				SELECT									
	SELECT				SELECT									
	SELECT				SELECT									
otal complaints														
pen at start of														
porting year	. ا													
otal new		4												
omplaints														
eceived during														
porting year														
tal complaints		4												
osed during														
porting year														
lance of		1												
mplaints end of														
orting year	. ا													
		_												
		Incidents				1								
					Additional inform	ation								
eve any incidents	occurred on site in the current rep	porting year? Please list all incid	ents for current reporting			1								
ar in Table 2 belov				No										
			1		•	-								
	on how to report and what													
onstitutes an incide	ent	What is an incident												
bla 2 Incident	mman.		7											
Table 2 Incidents sur	IIIIIary	T	Incident	I	T	Other	Activity in	1	ı	1	Preventative	_	<del></del>	T I
							Activity in	1		Corrective action 20		3	1	Resolu
Data of occurre	Incident nature	Location of occurrence	category*please refer to guidance	Document	Cause of insides	cause(please	progress at	Communicatio -	Occurrons-	Corrective action<20			Paralution status	
Date of occurrence	Select	Location of occurrence Select	Select	Receptor Select	Cause of incident	specify)		Communication	Occurrence Select	words	words		Select	Resolution status date
					Select		Select	Select			<del>                                     </del>			
	Select Select	Select	Select	Select	Select	-	Select	Select	Select		1		Select	
		Select	Select	Select	Select	-	Select	Select	Select		1		Select	
	Select	Select	Select	Select	Select	I	Select	Select	Select			_	Select	Select
Total number of														
incidents current	_													
/ear		4												
Total number of														
incidents previous	_													
ear 6 reduction/	C	4												

						<del>_</del>							
CTION B- WASTE A	CCEPTED ONTO SITE-TO BE COM	IPLETED BY ALL IPPC AND	WASTE FACILITIES				Additional Information	on.					
							Additional information	1					
re any wastes accepted or be captured through Pl	onto your site for recovery or disposal or t	reatment prior to recovery or d	lisposal within the bounda	ries of your facility ?; (wa	ste generated within your boundaries	No							
s please enter details in								1					
•								1					
your site have any rejec	ted consignments of waste in the current	reporting year? If yes please giv	e a brief explanation in th	e additional information		No							
****		and a restant and the state of the	112.15		Library Commence								
	te accepted onto your site that was gener waste accepted onto your si					No site as these	will have heer	reported in you	r PRTR workhook)				
cenced annual tonnage	EWC code	Source of waste accepted	Description of waste	Quantity of waste	Quantity of waste accepted in	Reduction/	Reason for	Packaging Content (%)-	Disposal/Recovery or	Quantity of	Comments -	]	
limit for your site (total			accepted	accepted in current	previous reporting year (tonnes)	Increase over	reduction/increase	only applies if the	treatment operation carried	waste			
tonnes/annum)			Please enter an accurate and detailed	reporting year (tonnes)		previous year +/	from previous reporting year	waste has a packaging component	out at your site and the description of this operation	remaining on site at the end			
			description - which			-				of reporting			
			applies to relevant EWC code							year (tonnes)			
	European Waste Catalogue EWC codes		European Waste										
	Ediopedii Waste edidiogae EWe todes		Catalogue EWC codes										
												1	
all waste processing infra	structure as required by your licence and a	approved by the Agency in place	e? If no please list waste p	rocessing infrastructure r	equired onsite	SELECT							
all waste storage infrastru	ucture as required by your licence and app	proved by the Agency in place? I	f no please list waste stora	age infrastructure require	d on site	SELECT							
oes your facility have relev	vant nuisance controls in place?					SELECT				7			
you have an odour mana	agement system in place for your facility?	If no why?				SELECT							
you maintain a sludge re	egister on site?					SELECT							
CTION D-TO BE CO	MPLETED BY LANDFILL SITES ON	LY											
able 2 Waste type a	nd tonnage-landfill only	T	T	T	1								
			Remaining licensed										
Vaste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	capacity at end of reporting year (m3)	Comments									
A - Landfill Closed													
					]								
able 3 General infor	mation-Landfill only												
													Т
										Total disposal area occupied by	Lined disposal area occupied by	Unlined area	1
Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	waste	waste		C
									·				47
/A - Landfill Closed										SELECT UNIT	SELECT UNIT	SELECT UNIT	

Lic No:

W0089-02

Year

dropdown list click to see options

2017

WASTE SUMMARY

Table 4 Environmental monitoring-landfill only

Landfill Manual-Monitoring Standards

WASTE SUMMARY					Lic No:	W0089-02		Year
Was meterological							Has the statement	
monitoring in compliance			Was SW monitored in			Was topography	under S53(A)(5) of	
with Landfill Directive		Was Landfill Gas monitored in	compliance with LD			of the site	WMA been	
(LD) standard in reporting	Was leachate monitored in compliance	compliance with LD standard	standard in reporting	Have GW trigger levels	Were emission limit values agreed with	surveyed in	submitted in	
year +	with LD standard in reporting year	in reporting year	year	been established	the Agency (ELVs)	reporting year	reporting year	Comments
No	Yes	Yes	Yes	Yes	Yes	No	Yes	

.+ please refer to Landfill Manual linked above for relevant Landfill Directive monitoring standards

Table 5 Capping-Landfill only

. abic a cabbiile raise						
				Area with waste that		
Area uncapped*	Area with temporary cap			should be permanently		
SELECT UNIT	SELECT UNIT	Area with final cap to LD Standard m2 ha, a	Area capped other	capped to date under licence	What materials are used in the cap	Comments
N/A - Landfill Capped						

N/A - Landfill Capped

\*please note this includes daily cover area

#### Table 6 Leachate-Landfill only

9 Is leachate from your site treated in a Waste Water Treatment Plant?

10 Is leachate released to surface water? If yes please complete leachate mass load information below

Yes	
No	

Volume of leachate in reporting year(m3)	,	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum		Specify type of leachate treatment	Comments
8439.64				No	Bandon WWTP	

Please ensure that all information reported in the landfill gas section is consistent with the Landfill Gas Survey submitted in conjunction with PRTR returns

Table 7 Landfill Gas-Landfill only

G	as Captured&Treated by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
	CH <sub>4</sub> - 49,566	0	0	No	



**Guidance to completing the PRTR workbook** 

# **PRTR Returns Workbook**

Vareinn 1 1 10

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# 1. FACILITY IDENTIFICATION

	Parent Company Name	Cork County Council
	Facility Name	Derryconnell Landfill
ı	PRTR Identification Number	W0089
	Licence Number	W0089-02

#### Classes of Activity

Classes of Assault	
No.	class_name
	Refer to PRTR class activities below

	I=
	Derryconnell
Address 2	Schull
Address 3	
Address 4	
	Cork
Country	
Coordinates of Location	-7.46596 53.2762
River Basin District	IESW
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Mairead Hales
AER Returns Contact Email Address	mairead.hales@corkcoco.ie
AER Returns Contact Position	Executive Engineer
AER Returns Contact Telephone Number	028 37742
AER Returns Contact Mobile Phone Number	086 6018493
AER Returns Contact Fax Number	028 37742
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	3
User Feedback/Comments	
W. 1. 4.1.	
Web Address	

# 2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
, ,	Installations for the disposal of non-hazardous waste
	Installations for the disposal of non-hazardous waste
5(d)	Landfills
50.1	General

# 3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

3. SOLVENTS REGULATIONS (S.I. NO. 543 01 2002)
Is it applicable? No
Have you been granted an exemption ?
If applicable which activity class applies (as per
Schedule 2 of the regulations) ?
Is the reduction scheme compliance route being
used ?

# 4. WASTE IMPORTED/ACCEPTED ONTO SITE

Guidance on waste imported/accepted onto site

activ	ctivities)
-------	------------

#### SECTION A: SECTOR SPECIFIC PRTR POLLUTANTS

	Please enter all quantities in this section in KGs									
POLLUTANT		METHOD				QUANTITY				
			Method Used							
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Ye	ear	A (Accidental) KG/Year	F (Fugitive) KG/Year	
01	Methane (CH4)	С	OTH	LandGEM Modelling	0	.0	198683.2	0.0	198683.2	

\* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

#### SECTION B: REMAINING PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs				
POLLUTANT		METHOD			QUANTITY				
		Method Used							
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accid	dental) KG/Year	F (Fugitive) KG/Year
					0.0	1	0.0	0.0	0.0

<sup>\*</sup> Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

#### SECTION C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)

RELEASES TO AIR					Please enter all quantities in this section in KGs					
POLLUTANT		METHOD			QUANTITY					
		Method Used								
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) K	G/Year	F (Fugitive) KG/Year	
					0.0	)	0.0	0.0	0.0	

<sup>\*</sup> Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

Additional Data Requested from Landfill operators												
for the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane CH4) emission to the environment under T(total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:												
Landfill:	Derryconnell Landfill											
Please enter summary data on the												
quantities of methane flared and / or												
utilised			Meti	hod Used								
				Designation or	Facility Total Capacity							
	T (Total) kg/Year	M/C/E	Method Code	Description	m3 per hour							
Total estimated methane generation (as per												
site model)	232315.2	С	OTH	Landgem	N/A							
Methane flared	33632.0	С	OTH	Landfill Gas Survey	0.0	(Total Flaring Capacity)						
Methane utilised in engine/s	0.0				0.0	(Total Utilising Capacity)						
Net methane emission (as reported in Section												
A above)	198683.2	C	OTH	LandGEM Modelling	N/A							

Please enter all quantities on this sheet in Tonnes Λ Haz Waste : Name ar Licence/Permit No of Next stination Facility Haz Waste : Address of Next ame and License / Permit No. and Quantity Haz Waste: Name and estination Facility Address of Final Recoverer Actual Address of Final Destination Tonnes per Non Haz Waste: Address of Disposer (HAZARDOUS WASTE Licence/Permit No of i.e. Final Recovery / Disposal Site Method Used ONI Y Recover/Disposer Year) Recover/Disposer Waste European Waste Location of Treatment Operation M/C/F Method Used Transfer Destination Code Hazardous Description of Waste Treatment Clonminam Industrial Clonminam Industrial Estate.Portlaoise.Co. Estate Portlagise Co. Within the Country 13 02 08 Yes 1.84 other engine, gear and lubricating oils R13 M Weighed Offsite in Ireland Enva Ireland Ltd., W0184-01 Laois,., Ireland Enva Ireland Ltd., W0184-01 Laois...Ireland Green Dragon Recycling, WFP-CK-10-0060- Corbally, Glanmire, Co. Within the Country 15 01 04 No 5.84 metallic packaging R13 Weighed Offsite in Ireland 03 Cork,.,Ireland Bantry Skip Hire, WFP-CK-12- Dunbittern East , Bantry , Co. Within the Country 15 01 06 No 144.18 mixed packaging R13 Weighed Offsite in Ireland 0120-01 Cork,.,Ireland Luddenmore, Grange, Kilmallo Offsite in Ireland Mr. Binman Ltd., W0061-02 ck, Co. Limerick, Ireland Within the Country 15 01 07 No 47.72 glass packaging R13 Weighed Clonminam Industrial Clonminam Industria Estate Portlagise Co. Estate Portlagise Co. Within the Country 16 01 07 Yes 0.06 oil filters R13 M Weighed Offsite in Ireland Enva Ireland Ltd., W0184-01 Laois,.,Ireland Enva Ireland Ltd., W0184-01 Laois,., Ireland Cappincur Industrial Estate, Duingean discarded equipment other than those KMK Metals Road.Tullamore.Co. Within the Country 16 02 14 No 35.94 mentioned in 16 02 09 to 16 02 13 R13 Offsite in Ireland Recycling, W0113-03 Offaly, Ireland Weighed Clonminam Industrial Clonminam Industrial gases in pressure containers (including Estate, Portlaoise, Co. Estate, Portlaoise, Co. 0.52 halons) containing dangerous substances R13 Offsite in Ireland Enva Ireland Ltd., W0184-01 Laois,.,Ireland Enva Ireland Ltd., W0184-01 Laois,,,Ireland Within the Country 16 05 04 Yes Weighed Cappincur Industrial Estate, Duingean Clonminam Industrial **KMK Metals** Road, Tullamore, Co. Estate.Portlaoise.Co. Within the Country 16 06 01 Yes 0.32 lead batteries R13 M Weighed Offsite in Ireland Recycling, W0113-03 Offaly, Ireland Enva Ireland Ltd.,W0184-01 Laois,.,Ireland Cappincur Industrial Estate, Duingean KMK Metals Road, Tullamore, Co. Offaly, Ireland Within the Country 16 06 05 No 2.49 other batteries and accumulators R13 Weighed Offsite in Ireland Recycling, W0113-03 M landfill leachate other than those Cork County Council Glaslin Road, Bandon, Co. 8439.64 mentioned in 19 07 02 Offsite in Ireland Bandon WWTP,. Cork,,,Ireland Within the Country 19 07 03 No D9 M Weighed Mill River Business Eco Park, Carrik-On-Environmental, WCP/KK/048 Suir, Tipperary, Co. Within the Country 20 01 11 No 6.52 textiles R13 M Weighed Offsite in Ireland 8/01 Tipperary, Ireland Cork Oil Collectors, WFP-CK-5 St. Lappans Place, Little Within the Country 20 01 25 No 0.88 edible oil and fat R13 M Weighed Offsite in Ireland 10-0058-02 Island,Cork,.,Ireland Clonminam Industrial Clonminam Industrial paint, inks, adhesives and resins containing Estate, Portlaoise, Co. Estate, Portlaoise, Co. Within the Country 20 01 27 Yes 8.68 dangerous substances R13 M Weighed Offsite in Ireland Enva Ireland Ltd., W0184-01 Laois,.,Ireland Enva Ireland Ltd.,W0184-01 Laois,.,Ireland wood other than that mentioned in 20 01 Aughacurreen, Killarney, Co. Offsite in Ireland KWD Recycling, W0217-01 Within the Country 20 01 38 No 87.4 37 R13 M Weighed Kerry,.,Ireland Pouladuff Dismantlers, CK-Forge Hill, Airport Offsite in Ireland 10-0070-03 Within the Country 20 01 40 No 67.9 metals R13 M Weighed Road, Cork,., Ireland Aughacurreen, Killarney, Co. 298,78 mixed municipal waste Offsite in Ireland KWD Recycling, W0217-01 Kerry,,,Ireland Within the Country 20 03 01 No D15 M Weighed Aughacurreen, Killarney, Co. Within the Country 20 03 07 No 204.08 bulky waste D15 M Weighed Offsite in Ireland KWD Recycling, W0217-01 Kerry,.,Ireland