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ntered in the additional information/comments boxes within the templates. Please size these boxes
se include an appendix to the AER template and merge it as part of the AER PDF document. The excel
ately so that all text is readable before it is converted to PDF document.

Facility Information Summary	
AER Reporting Year	2015
Licence Register Number	w0161-02
Name of site	Bottlehill landfill
Site Location	Burnfort , Mallow ,Co.Cork
NACE Code	
Class/Classes of Activity	
National Grid Reference (6E, 6 N)	
<p>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 <u>listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.</u></p>	<p>The Environmental Protection Agency (EPA) issued Cork County Council with a waste Licence No W0161-01 for Bottlehill landfill on the 25th June 2004. In accordance with the requirement of Condition 11.61.1 of the waste licence. The site is located 10 KM from Mallow and 3.3km SW of Burnfort Village and 3.65 KM east of the N20.</p> <p>In 2012 Cork County Council requested a reduction in Environmental Monitoring as Bottlehill Landfill was inactive. The following reductions were granted by the EPA. Annual surface water and ground water monitoring to include annual parameters. Suspension of noise, dust, ecology and gas monitoring until 6 months prior to the landfill becoming operational. These changes are reflected in the 2015 AER.</p>

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.

<hr/>	<hr/>
Signature Group/Facility manager <small>(or nominated, suitably qualified and experienced deputy)</small>	Date

AIR-summary template Lic No: 0 Year 2015

Answer all questions and complete all tables where relevant

1 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

No	Additional information
----	------------------------

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

SELECT	
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3 Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist? [Basic air monitoring checklist](#) [AGN2](#)

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

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision thereof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments - reason for change in % mass load from previous year if applicable
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		

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

AIR-summary template	Lic No: 0	Year: 2015
Continuous Monitoring		

4 Does your site carry out continuous air emissions monitoring? SELECT

If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV)

5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below SELECT

6 Do you have a proactive service agreement for each piece of continuous monitoring equipment? SELECT

7 Did your site experience any abatement system bypasses? If yes please detail them in table A3 below SELECT

Table A2: Summary of average emissions -continuous monitoring

Emission reference no:	Parameter/ Substance	ELV in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments
	SELECT			SELECT	SELECT					
	SELECT				SELECT					
	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

* this should include all dates that an abatement system bypass occurred

** 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

Solvent use and management on site

8 Do you have a total Emission Limit Value of direct and fugitive emissions on site? if yes please fill out tables A4 and A5

SELECT

Table A4: Solvent Management Plan Summary					
Total VOC Emission limit value			Solvent regulations Please refer to linked solvent regulations to complete table 5 and 6		
Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site (direct and fugitive)	Total VOC emissions as %of solvent input	Total Emission Limit Value (ELV) in licence or any revision thereof	Compliance
					SELECT
					SELECT

Table A5: Solvent Mass Balance summary								
(I) Inputs (kg)		(O) Outputs (kg)						
Solvent	(I) Inputs (kg)	Organic solvent emission in waste	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:

0

Year

2015

Additional information

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

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

Yes	
No	

Table W1 Storm water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licensed 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
SW1A	downstream	Alkalinity	SELECT	10/9/2015	NONE	All values < ELV	23.1	mg/l	yes	no upward trend
	downstream	SELECT	Boron		1.0 MG/L	All values < ELV	0.02	mg/l	yes	no upward trend
	downstream	Chromium and compounds (as Cr)	SELECT	10/9/2015	0.03 MG/L	All values < ELV	<20	ug/l	yes	no upward trend
	downstream	Copper and compounds (as Cu)	SELECT	10/9/2015	0.03 mg/l	All values < ELV	<20	ug/l	yes	no upward trend
	downstream	Cadmium and compounds (as Cd)	SELECT	10/9/2015	0.005 MG/L	All values < ELV	<20	ug/l	yes	no upward trend
	downstream	SELECT	Iron	10/9/2015	0.2 mg/l	All values < ELV	37	ug/l	yes	no upward trend
	downstream	Lead and compounds (as Pb)	SELECT	10/9/2015		All values < ELV	<20	ug/l	yes	no upward trend
	downstream	SELECT	Magnesium	10/9/2015	50 mg/l	All values < ELV	<0.5	mg/l	yes	no upward trend
	downstream	SELECT	Manganese (as Mn)	10/9/2015	0.05 mg/l	All values < ELV	<20	ug/l	yes	no upward trend
	downstream	Mercury and compounds (as Hg)	SELECT	10/9/2015	0.001 mg/l	All values < ELV	<10	ug/l	yes	no upward trend
	downstream	Nickel and compounds (as Ni)	SELECT	10/9/2015	0.05 mg/l	All values < ELV	<20	ug/l	yes	no upward trend
	downstream	SELECT	Potassium	10/9/2015	5 mg/l	All values < ELV	<0.5	ug/l	yes	no upward trend
	downstream	SELECT	Sulphate	10/9/2015	200 mg/l	All values < ELV	<2.5	mg/l	yes	no upward trend
	downstream	SELECT	Total Oxidised Nitrogen (TON)	10/9/2015	no abnormal change	All values < ELV	<0.5	mg/l	yes	no upward trend
	downstream	SELECT	Ortho-phosphate (as PO4)	10/9/2015		All values < ELV	0.02	mg/l	yes	no upward trend
	downstream	Zinc and compounds (as Zn)	SELECT	10/9/2015	0.1 mg/l	All values < ELV	<20	mg/l	yes	no upward trend
	downstream	Total phosphorus	SELECT	10/9/2015		All values < ELV	<0.01	ug/l	yes	no upward trend
SW1A	upstream	Alkalinity	SELECT	10/9/2015		All values < ELV	25.78	mg/l	yes	no upward trend
	upstream	SELECT	Boron			All values < ELV	0.01	mg/l	yes	no upward trend
	upstream	Chromium and compounds (as Cr)	SELECT	10/9/2015		All values < ELV	<20	ug/l	yes	no upward trend
	upstream	Copper and compounds (as Cu)	SELECT	10/9/2015		All values < ELV	<20	ug/l	yes	no upward trend
	upstream	Cadmium and compounds (as Cd)	SELECT	10/9/2015		All values < ELV	<20	ug/l	yes	no upward trend
	upstream	SELECT	Iron	10/9/2015		All values < ELV	325	ug/l	yes	no upward trend
	upstream	Lead and compounds (as Pb)	SELECT	10/9/2015		All values < ELV	<20	ug/l	yes	no upward trend
	upstream	SELECT	Magnesium	10/9/2015		All values < ELV	1.96	mg/l	yes	no upward trend
	upstream	SELECT	Manganese (as Mn)	10/9/2015		All values < ELV	35	ug/l	yes	no upward trend
	upstream	Mercury and compounds (as Hg)	SELECT	10/9/2015		All values < ELV	<10	ug/l	yes	no upward trend

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	upstream	Nickel and compounds (as Ni)	SELECT	10/9/2015		All values < ELV	<20	ug/l	yes	no upward trend
	upstream	Potassium	SELECT	10/9/2015		All values < ELV	<0.5	ug/l	yes	no upward trend
	upstream	Sulphate	SELECT	10/9/2015		All values < ELV	<2.5	mg/l	yes	no upward trend
	upstream	Total Oxidised Nitrogen (TON)	SELECT	10/9/2015		All values < ELV	<0.05	mg/l	yes	no upward trend
	upstream	Ortho-phosphate (as PO4)	SELECT	10/9/2015		All values < ELV	0.03	mg/l	yes	no upward trend
	upstream	Zinc and compounds (as Zn)	SELECT	10/9/2015		All values < ELV	282	mg/l	yes	no upward trend
	upstream	Total phosphorus	SELECT	10/9/2015		All values < ELV	0.01	ug/l	yes	no upward trend
SW2	onsite	Alkalinity	SELECT	10/9/2015		All values < ELV	DRY	mg/l	yes	no upward trend
	onsite	Boron	SELECT			All values < ELV		mg/l	yes	no upward trend
	onsite	Cadmium and compounds (as Cd)	SELECT	10/9/2015		All values < ELV		ug/l	yes	no upward trend
	onsite	Copper and compounds (as Cu)	SELECT	10/9/2015		All values < ELV		ug/l	yes	no upward trend
	onsite	Chromium and compounds (as Cr)	SELECT	10/9/2015		All values < ELV		ug/l	yes	no upward trend
	onsite	Iron	SELECT	10/9/2015		All values < ELV		ug/l	yes	no upward trend
	onsite	Lead and compounds (as Pb)	SELECT	10/9/2015		All values < ELV		ug/l	yes	no upward trend
	onsite	Magnesium	SELECT	10/9/2015		All values < ELV		mg/l	yes	no upward trend
	onsite	Manganese (as Mn)	SELECT	10/9/2015		All values < ELV		ug/l	yes	no upward trend
	onsite	Mercury and compounds (as Hg)	SELECT	10/9/2015		All values < ELV		ug/l	yes	no upward trend
	onsite	Nickel and compounds (as Ni)	SELECT	10/9/2015		All values < ELV		ug/l	yes	no upward trend
	onsite	Potassium	SELECT	10/9/2015		All values < ELV		ug/l	yes	no upward trend
	onsite	Sulphate	SELECT	10/9/2015		All values < ELV		mg/l	yes	no upward trend
	onsite	Total Oxidised Nitrogen (TON)	SELECT	10/9/2015		All values < ELV		mg/l	yes	no upward trend
	onsite	Ortho-phosphate (as PO4)	SELECT	10/9/2015		All values < ELV		mg/l	yes	no upward trend
	onsite	Zinc and compounds (as Zn)	SELECT	10/9/2015		All values < ELV		mg/l	yes	no upward trend
	onsite	Total phosphorus	SELECT	10/9/2015		All values < ELV		ug/l	yes	no upward trend
sw3	downstream	Alkalinity	SELECT	10/9/2015		All values < ELV	36.64	mg/l	yes	no upward trend
	downstream	Boron	SELECT			All values < ELV	0.01	mg/l	yes	no upward trend
	downstream	Cadmium and compounds (as Cd)	SELECT	10/9/2015		All values < ELV	<20	ug/l	yes	no upward trend
	downstream	Copper and compounds (as Cu)	SELECT	10/9/2015		All values < ELV	<20	ug/l	yes	no upward trend
	downstream	Chromium and compounds (as Cr)	SELECT	10/9/2015		All values < ELV	<20	ug/l	yes	no upward trend
	downstream	Iron	SELECT	10/9/2015		All values < ELV	1014	ug/l	yes	no upward trend
	downstream	Lead and compounds (as Pb)	SELECT	10/9/2015		All values < ELV	<20	ug/l	yes	no upward trend
	downstream	Magnesium	SELECT	10/9/2015		All values < ELV	2.62	mg/l	yes	no upward trend
	downstream	Manganese (as Mn)	SELECT	10/9/2015		All values < ELV	7.37	ug/l	yes	no upward trend
	downstream	Mercury and compounds (as Hg)	SELECT	10/9/2015		All values < ELV	<10	ug/l	yes	no upward trend
	downstream	Nickel and compounds (as Ni)	SELECT	10/9/2015		All values < ELV	<20	ug/l	yes	no upward trend
	downstream	Potassium	SELECT	10/9/2015		All values < ELV	<0.5	ug/l	yes	no upward trend

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	downstream	SELECT	Sulphate	10/9/2015		All values < ELV	<2.5	mg/l	yes	no upward trend
	downstream	SELECT	Total Oxidised Nitrogen (TON)	10/9/2015		All values < ELV	<0.05	mg/l	yes	no upward trend
	downstream	SELECT	Ortho-phosphate (as PO4)	10/9/2015		All values < ELV	0.05	mg/l	yes	no upward trend
	downstream	Zinc and compounds (as Zn)	SELECT	10/9/2015		All values < ELV	84	mg/l	yes	no upward trend
	downstream	Total phosphorus	SELECT	10/9/2015		All values < ELV	0.03	ug/l	yes	no upward trend
SW4	downstream	Alkalinity	SELECT	10/9/2015		All values < ELV	39.04	mg/l	yes	no upward trend
	downstream	SELECT	Boron			All values < ELV	0.02	mg/l	yes	no upward trend
	downstream	Barium and compounds (as Ba)	SELECT	10/9/2015		All values < ELV	<20	ug/l	yes	no upward trend
	downstream	Copper and compounds (as Cu)	SELECT	10/9/2015		All values < ELV	<20	ug/l	yes	no upward trend
	downstream	Chromium and compounds (as Cr)	SELECT	10/9/2015		All values < ELV	<20	ug/l	yes	no upward trend
	downstream	SELECT	Iron	10/9/2015		All values < ELV	661	ug/l	yes	no upward trend
	downstream	Lead and compounds (as Pb)	SELECT	10/9/2015		All values < ELV	<20	mg/l	yes	no upward trend
	downstream	SELECT	Magnesium	10/9/2015		All values < ELV	3.58	ug/l	yes	no upward trend
	downstream	SELECT	Manganese (as Mn)	10/9/2015		All values < ELV	51	ug/l	yes	no upward trend
	downstream	Mercury and compounds (as Hg)	SELECT	10/9/2015		All values < ELV	<10	ug/l	yes	no upward trend
	downstream	Nickel and compounds (as Ni)	SELECT	10/9/2015		All values < ELV	<20	ug/l	yes	no upward trend
	downstream	SELECT	Potassium	10/9/2015		All values < ELV	1.7	mg/l	yes	no upward trend
	downstream	SELECT	Sulphate	10/9/2015		All values < ELV	5.6	mg/l	yes	no upward trend
	downstream	SELECT	Total Oxidised Nitrogen (TON)	10/9/2015		All values < ELV	1.75	mg/l	yes	no upward trend
	downstream	SELECT	Ortho-phosphate (as PO4)	10/9/2015		All values < ELV	0.14	mg/l	yes	no upward trend
	downstream	Zinc and compounds (as Zn)	SELECT	10/9/2015		All values < ELV	75	ug/l	yes	no upward trend
	downstream	Total phosphorus	SELECT	10/9/2015		All values < ELV	0.07	mg/l	yes	no upward trend
sw5	downstream	Alkalinity	SELECT	10/9/2015		All values < ELV	39.8	mg/l	yes	no upward trend
	downstream	SELECT	Boron			All values < ELV	0.01	mg/l	yes	no upward trend
	downstream	Barium and compounds (as Ba)	SELECT	10/9/2015		All values < ELV	<20	ug/l	yes	no upward trend
	downstream	Copper and compounds (as Cu)	SELECT	10/9/2015		All values < ELV	<20	ug/l	yes	no upward trend
	downstream	Chromium and compounds (as Cr)	SELECT	10/9/2015		All values < ELV	<20	ug/l	yes	no upward trend
	downstream	SELECT	Iron	10/9/2015		All values < ELV	645	ug/l	yes	no upward trend
	downstream	Lead and compounds (as Pb)	SELECT	10/9/2015		All values < ELV	<20	mg/l	yes	no upward trend
	downstream	SELECT	Magnesium	10/9/2015		All values < ELV	3.62	ug/l	yes	no upward trend
	downstream	SELECT	Manganese (as Mn)	10/9/2015		All values < ELV	51	ug/l	yes	no upward trend
	downstream	Mercury and compounds (as Hg)	SELECT	10/9/2015		All values < ELV	<10	ug/l	yes	no upward trend
	downstream	Nickel and compounds (as Ni)	SELECT	10/9/2015		All values < ELV	<20	ug/l	yes	no upward trend
	downstream	SELECT	Potassium	10/9/2015		All values < ELV	1.35	mg/l	yes	no upward trend
	downstream	SELECT	Sulphate	10/9/2015		All values < ELV	3.96	mg/l	yes	no upward trend
	downstream	SELECT	Total Oxidised Nitrogen (TON)	10/9/2015		All values < ELV	1.52	mg/l	yes	no upward trend

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	downstream	SELECT	Ortho-phosphate (as PO4)	10/9/2015	All values < ELV	0.09	mg/l	yes	no upward trend
	downstream	Zinc and compounds (as Zn)	SELECT	10/9/2015	All values < ELV	92	ug/l	yes	no upward trend
	downstream	Total phosphorus	SELECT	10/9/2015	All values < ELV	0.05	mg/l	yes	no upward trend
SW6	downstream	Alkalinity	SELECT	10/9/2015	All values < ELV	32.8	mg/l	yes	no upward trend
	downstream	SELECT	Boron		All values < ELV	0.01	mg/l	yes	no upward trend
	downstream	Barium and compounds (as Ba)	SELECT	10/9/2015	All values < ELV	<20	ug/l	yes	no upward trend
	downstream	Copper and compounds (as Cu)	SELECT	10/9/2015	All values < ELV	<20	ug/l	yes	no upward trend
	downstream	Chromium and compounds (as Cr)	SELECT	10/9/2015	All values < ELV	<20	ug/l	yes	no upward trend
	downstream	SELECT	Iron	10/9/2015	All values < ELV	720	ug/l	yes	no upward trend
	downstream	Lead and compounds (as Pb)	SELECT	10/9/2015	All values < ELV	<20	mg/l	yes	no upward trend
	downstream	SELECT	Magnesium	10/9/2015	All values < ELV	2.49	ug/l	yes	no upward trend
	downstream	SELECT	Manganese (as Mn)	10/9/2015	All values < ELV	35	ug/l	yes	no upward trend
	downstream	Mercury and compounds (as Hg)	SELECT	10/9/2015	All values < ELV	<10	ug/l	yes	no upward trend
	downstream	Nickel and compounds (as Ni)	SELECT	10/9/2015	All values < ELV	<20	ug/l	yes	no upward trend
	downstream	SELECT	Potassium	10/9/2015	All values < ELV	<0.5	mg/l	yes	no upward trend
	downstream	SELECT	Sulphate	10/9/2015	All values < ELV	<2.5	mg/l	yes	no upward trend
	downstream	SELECT	Total Oxidised Nitrogen (TON)	10/9/2015	All values < ELV	<0.50	mg/l	yes	no upward trend
	downstream	SELECT	Ortho-phosphate (as PO4)	10/9/2015	All values < ELV	0.04	mg/l	yes	no upward trend
	downstream	Zinc and compounds (as Zn)	SELECT	10/9/2015	All values < ELV	80	ug/l	yes	no upward trend
	downstream	Total phosphorus	SELECT	10/9/2015	All values < ELV	0.02	mg/l	yes	no upward trend
SW7	downstream	Alkalinity	SELECT	10/9/2015	All values < ELV	37.36	mg/l	yes	no upward trend
	downstream	SELECT	Boron		All values < ELV	<0.01	mg/l	yes	no upward trend
	downstream	Barium and compounds (as Ba)	SELECT	10/9/2015	All values < ELV	<20	ug/l	yes	no upward trend
	downstream	Copper and compounds (as Cu)	SELECT	10/9/2015	All values < ELV	<20	ug/l	yes	no upward trend
	downstream	Chromium and compounds (as Cr)	SELECT	10/9/2015	All values < ELV	<20	ug/l	yes	no upward trend
	downstream	SELECT	Iron	10/9/2015	All values < ELV	413	ug/l	yes	no upward trend
	downstream	Lead and compounds (as Pb)	SELECT	10/9/2015	All values < ELV	<20	mg/l	yes	no upward trend
	downstream	SELECT	Magnesium	10/9/2015	All values < ELV	3.24	ug/l	yes	no upward trend
	downstream	SELECT	Manganese (as Mn)	10/9/2015	All values < ELV	<20	ug/l	yes	no upward trend
	downstream	Mercury and compounds (as Hg)	SELECT	10/9/2015	All values < ELV	<10	ug/l	yes	no upward trend
	downstream	Nickel and compounds (as Ni)	SELECT	10/9/2015	All values < ELV	<20	ug/l	yes	no upward trend
	downstream	SELECT	Potassium	10/9/2015	All values < ELV	1.11	mg/l	yes	no upward trend
	downstream	SELECT	Sulphate	10/9/2015	All values < ELV	3.8	mg/l	yes	no upward trend
	downstream	SELECT	Total Oxidised Nitrogen (TON)	10/9/2015	All values < ELV	1.31	mg/l	yes	no upward trend
	downstream	SELECT	Ortho-phosphate (as PO4)	10/9/2015	All values < ELV	0.05	mg/l	yes	no upward trend
	downstream	Zinc and compounds (as Zn)	SELECT	10/9/2015	All values < ELV	39	ug/l	yes	no upward trend

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downstream	Total phosphorus	SELECT	10/9/2015	All values < ELV	0.03	mg/l	yes	no upward trend
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*trigger values may be agreed by the Agency outside of licence conditions

Table W2 Visual inspections-Please only enter details where contamination was observed.

Location Reference	Date of inspection	Description of contamination	Source of contamination	Corrective action	Comments
			SELECT		
			SELECT		

Licensed Emissions to water and /or wastewater(sewer)-periodic monitoring (non-continuous)

3 Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below

4 Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box

[External /Internal Lab Quality checklist](#) [Assessment of results checklist](#)

SELECT	Additional information
SELECT	

Table W3: Licensed Emissions to water and /or wastewater (sewer)-periodic monitoring (non-continuous)

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereof ^{Note 2}	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load (kg)	Comments
	SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT			

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

Note 2: Where Emission Limit Values (ELV) do not apply to your licence please compare results against EQS for Surface water or relevant receptor quality standards

Continuous monitoring

5 Does your site carry out continuous emissions to water/sewer monitoring? Additional Information

SELECT

If yes please summarise your continuous monitoring data below in Table W4 and compare it to its relevant Emission Limit Value (ELV)

6 Did continuous monitoring equipment experience downtime? If yes please record downtime in table W4 below

SELECT

7 Do you have a proactive service contract for each piece of continuous monitoring equipment on site?

SELECT

8 Did abatement system bypass occur during the reporting year? If yes please complete table W5 below

SELECT

Table W4: Summary of average emissions -continuous monitoring

Emission reference no:	Emission released to	Parameter/ Substance	ELV or trigger values in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission for current reporting year (kg)	% change +/- from previous reporting year	Monitoring Equipment downtime (hours)	Number of ELV exceedences in 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 (hours)	Location	Resultant emissions	Reason for bypass	Corrective action*	Was a report submitted to the EPA?	When was this report submitted?
						SELECT	

*Measures taken or proposed to reduce or limit bypass frequency

Bund testing

dropdown menu click to see options

Additional information

Are you required by your licence to undertake integrity testing on bunds and containment structures? If yes please fill out table B1 below listing all **new bunds and containment structures** on site, in addition to **all bunds which failed the table below, please include all bunds outside the licenced testin**

Suspended until landfill operational

e bunds must be listed in

- 1
- 2 Please provide integrity testing frequency period
- 3 Does the site maintain a register of bunds, underground pipelines (i
- 4 type units and mobile bunds)
- 4 How many bunds are on site?
- 5 How many of these bunds have been tested within the required test
- 6 How many mobile bunds are on site?
- 7 Are the mobile bunds included in the bund test schedule?
- 8 How many of these mobile bunds have been tested within the required test schedule?
- 9 How many sumps on site are included in the integrity test schedule?
- 10 How many of these sumps are integrity tested within the test schedule?

Please list any sump integrity failures in table B1

- 11 Do all sumps and chambers have high level liquid alarms?
- 12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?
- 13 Is the Fire Water Retention Pond included in your integrity test programme?

No	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	

Table B1: Summary details of bund /containment structure integrity test

Bund/Containment structure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest (if in current reporting year)
	SELECT					SELECT			SELECT	SELECT		SELECT		
	SELECT					SELECT			SELECT	SELECT		SELECT		

* Capacity required should comply with 25% or 110% containment rule as detailed in your licence

Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance?

[bundings and storage guidelines](#)

- 15
- 16 Are channels/transfer systems to remote containment systems tested?
- 17 Are channels/transfer systems compliant in both integrity and available volume?

Commentary	
SELECT	
SELECT	
SELECT	

Pipeline/underground structure testing

Are you required by your licence to undertake integrity testing* on underground structures e.g. pipelines or sumps etc ? if yes please fill out table 2 below listing all

- 1 underground structures and pipelines on site **which failed the integrity test and all which have not been tested within the integrity test period as specified**

2 Please provide integrity testing frequency period

*please note integrity testing means water tightness testing for process and foul pipelines (as required under your licence)

SELECT	
SELECT	

Table B2: Summary details of pipeline/underground structures integrity test

Structure ID	Type system	Material of construction:	Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest (if in current reporting year)
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT				SELECT

Please use commentary for additional details not answered by tables/ questions above

Groundwater/Soil monitoring template	Lic No:	0	Year	2015
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		Comments
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	yes
2	Are you required to carry out soil monitoring as part of your licence requirements?	no
3	Do you extract groundwater for use on site? If yes please specify use in comment section	no
4	Do monitoring results show that groundwater generic assessment criteria 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.	SELECT
5	Is the contamination related to operations at the facility (either current and/or historic)	no
6	Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	SELECT
7	Please specify the proposed time frame for the remediation strategy	SELECT
8	Is there a licence condition to carry out/update ELRA for the site?	SELECT
9	Has any type of risk assesment been carried out for the site?	yes
10	Has a Conceptual Site Model been developed for the site?	yes
11	Have potential receptors been identified on and off site?	yes
12	Is there evidence that contamination is migrating offsite?	no

Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretaion as an additional section in this AER

Please enter interpretation of data here

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SW EQS	Upward trend in pollutant concentration over last 5 years of monitoring data
10/9/2015	MW2 S	Alkalinity		Annual	7.28		SELECT		SW EQS	no
		Boron			0.04		SELECT	2.0 MG/L	SW EQS	no
		Cadnium			<20		SELECT	0.005 mg/l	SW EQS	no
		Chromium			<20		SELECT	0.03 mg/l	SW EQS	no
		calcium			2.76		SELECT	-	SW EQS	no
		copper			<20		SELECT	0.03 mg/l	SW EQS	no
		cyanide			5		SELECT	0.01 mg/l	SW EQS	no
		Iron			326		SELECT	1.0 mg/l	SW EQS	no
		Lead			<20		SELECT	0.01 mg/l	SW EQS	no
		Mercury			<10		SELECT	0.001 mg/l	SW EQS	no
		Manganese			95		SELECT	0.3 mg/l	SW EQS	no
		magnesium			1.26		SELECT	-	SW EQS	no
		Nickle			<20		SELECT	0.05 mg/l	SW EQS	no
		potassium			0.51		SELECT	5 mg/l	SW EQS	no
		sodium			8.75		SELECT	-	SW EQS	no
		Sulphates			6.04		SELECT	200 mg/l	SW EQS	no
		TDS			31.9		SELECT	-	SW EQS	no

Groundwater/Soil monitoring template			Lic No:	0	Year	2015		
		TON		0.5	SELECT	SW EQS	no	
		Total.Coilforms		<1	SELECT	SW EQS	no	
		Faecal.Coilforms		<1	SELECT	SW EQS	no	
		SVOC		nr	SELECT	<10 ug/l	SW EQS	no
		VOC		nr	SELECT	<10 ug/l	SW EQS	no
		Selenium		nr	SELECT		SW EQS	no
		Pesticides		nr	SELECT	0.375 ug/l	SW EQS	no
10/9/2015	MW2 D	Alkalinity	annual	42.5	SELECT		SW EQS	no
		Boron		0.02	SELECT	2.0 MG/L	SW EQS	no
		Cadnium		<20	SELECT	0.005 mg/l	SW EQS	no
		Chromium		<20	SELECT	0.03 mg/l	SW EQS	no
		calcium		12.4	SELECT	-	SW EQS	no
		copper		<20	SELECT	0.03 mg/l	SW EQS	no
		cyanide		<1	SELECT	0.01 mg/l	SW EQS	no
		Iron		20	SELECT	1.0 mg/l	SW EQS	no
		Lead		<20	SELECT	0.01 mg/l	SW EQS	no
		Mercury		<10	SELECT	0.001 mg/l	SW EQS	no
		Manganese		<20	SELECT	0.3 mg/l	SW EQS	no
		magnesium		2.42	SELECT	-	SW EQS	no
		Nickle		<20	SELECT	0.05 mg/l	SW EQS	no
		potassium		0.61	SELECT	5 mg/l	SW EQS	no
		sodium		7.89	SELECT	-	SW EQS	no
		Sulphates		4.42	SELECT	200 mg/l	SW EQS	no
		TDS		50.7	SELECT	-	SW EQS	no
		TON		<0.5	SELECT		SW EQS	no
		Total.Coilforms		50.5	SELECT	-	SW EQS	no
		Faecal.Coilforms		<1	SELECT	-	SW EQS	no
		SVOC		nr	SELECT	<10 ug/l	SW EQS	no
		VOC		nr	SELECT	<10 ug/l	SW EQS	no
		Selenium		nr	SELECT		SW EQS	no
		Pesticides		nr	SELECT	0.375 ug/l	SW EQS	no
10/9/2015	MW 4 S	Alkalinity	annual	5.15	SELECT		SW EQS	no
		Boron		0.02	SELECT	2.0 MG/L	SW EQS	no
		Cadnium		<20	SELECT	0.005 mg/l	SW EQS	no
		Chromium		<20	SELECT	0.03 mg/l	SW EQS	no
		calcium		1.98	SELECT	-	SW EQS	no
		copper		<20	SELECT	0.03 mg/l	SW EQS	no
		cyanide		<1	SELECT	0.01 mg/l	SW EQS	no
		Iron		97	SELECT	1.0 mg/l	SW EQS	no
		Lead		<20	SELECT	0.01 mg/l	SW EQS	no
		Mercury		<10	SELECT	0.001 mg/l	SW EQS	no
		Manganese		24	SELECT	0.3 mg/l	SW EQS	no
		magnesium		1.3	SELECT	-	SW EQS	no
		Nickle		<20	SELECT	0.05 mg/l	SW EQS	no
		potassium		<0.5	SELECT	5 mg/l	SW EQS	no
		sodium		8.77	SELECT	-	SW EQS	no
		Sulphates		4.23	SELECT	200 mg/l	SW EQS	no
		TDS		29.9	SELECT	-	SW EQS	no
		TON		<0.5	SELECT		SW EQS	no
		Total.Coilforms		<1	SELECT	-	SW EQS	no
		Faecal.Coilforms		<1	SELECT	-	SW EQS	no

Groundwater/Soil monitoring template				Lic No:	0	Year	2015		
		SVOC		<10		SELECT	<10 ug/l	SW EQS	no
		VOC		<10		SELECT	<10 ug/l	SW EQS	no
		Selenium		<10		SELECT		SW EQS	no
		Pesticides		<10		SELECT	0.375 ug/l	SW EQS	no
10/9/2015	MW4 D	Alkalinity	annual	33.51		SELECT		SW EQS	no
		Boron		0.02		SELECT	2.0 MG/L	SW EQS	no
		Cadnium		<20		SELECT	0.005 mg/l	SW EQS	no
		Chromium		<20		SELECT	0.03 mg/l	SW EQS	no
		calcium		9.57		SELECT	-	SW EQS	no
		copper		<20		SELECT	0.03 mg/l	SW EQS	no
		cyanide		<1		SELECT	0.01 mg/l	SW EQS	no
		Iron		91		SELECT	1.0 mg/l	SW EQS	no
		Lead		<20		SELECT	0.01 mg/l	SW EQS	no
		Mercury		<10		SELECT	0.001 mg/l	SW EQS	no
		Manganese		<20		SELECT	0.3 mg/l	SW EQS	no
		magnesium		2.04		SELECT	-	SW EQS	no
		Nickle		<20		SELECT	0.05 mg/l	SW EQS	no
		potassium		0.63		SELECT	5 mg/l	SW EQS	no
		sodium		8.04		SELECT	-	SW EQS	no
		Sulphates		4.61		SELECT	200 mg/l	SW EQS	no
		TDS		46		SELECT	-	SW EQS	no
		TON		<0.5		SELECT	-	SW EQS	no
		Total.Coilforms		,1		SELECT	-	SW EQS	no
		Faecal.Coilforms		<1		SELECT	-	SW EQS	no
		SVOC		<10		SELECT	<10 ug/l	SW EQS	no
		VOC		<10		SELECT	<10 ug/l	SW EQS	no
		Selenium		<10		SELECT		SW EQS	no
		Pesticides		<10		SELECT	0.375 ug/l	SW EQS	no

.+ where average indicates arithmetic mean

++. maximum concentration indicates the maximum measured concentration from all monitoring results produced during the reporting year

Table 2: Downgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SELECT**	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
10/9/2015	MW11 S	Alkalinity		annual	57.13		mg/l		SW EQS	no
		Boron			0.01		mg/l	2.0 MG/L	SW EQS	no
		Cadnium			<20		ug/l	0.005 mg/l	SW EQS	no
		Chromium			<20		ug/l	0.03 mg/l	SW EQS	no
		calcium			9.47		mg/l	-	SW EQS	no
		copper			<20		ug/l	0.03 mg/l	SW EQS	no
		cyanide			<1		ug/l	0.01 mg/l	SW EQS	no
		Iron			24273		ug/l	1.0 mg/l	SW EQS	no
		Lead			<20		ug/l	0.01 mg/l	SW EQS	no
		Mercury			<10		ug/l	0.001 mg/l	SW EQS	no
		Manganese			1733		mg/l	0.3 mg/l	SW EQS	no
		magnesium			6.82		mg/l	-	SW EQS	no

Groundwater/Soil monitoring template				Lic No:	0	Year	2015		
		Nickle		<20		ug/l	0.05 mg/l	SW EQS	no
		potassium		1.3		mg/l	5 mg/l	SW EQS	no
		sodium		11.2		mg/l	-	SW EQS	no
		Sulphates		4.25		mg/l	200 mg/l	SW EQS	no
		TDS		66.9		mg/l	-	SW EQS	no
		TON		<0.5		mg/l	-	SW EQS	no
		Total.Coliforms		<1		SELECT	-	SW EQS	no
		Faecal.Coliforms		<1		SELECT	-	SW EQS	no
		SVOC		nr		ug/l	<10 ug/l	SW EQS	no
		VOC		nr		ug/l	<10 ug/l	SW EQS	no
		Selenium		nr		ug/l	-	SW EQS	no
		Pesticides		nr		ug/l	0.375 ug/l	SW EQS	no
10/9/2015	MW11 D	Alkalinity	annual	11.15		mg/l	-	SW EQS	no
		Boron		0.02		mg/l	2.0 MG/L	SW EQS	no
		Cadnium		<0.09		ug/l	0.005 mg/l	SW EQS	no
		Chromium		<2.14		ug/l	0.03 mg/l	SW EQS	no
		calcium		3.28		mg/l	-	SW EQS	no
		copper		1.54		ug/l	0.03 mg/l	SW EQS	no
		cyanide		<5		ug/l	0.01 mg/l	SW EQS	no
		Iron		3274		ug/l	1.0 mg/l	SW EQS	no
		Lead		<0.02		ug/l	0.01 mg/l	SW EQS	no
		Mercury		<0.04		ug/l	0.001 mg/l	SW EQS	no
		Manganese		123		mg/l	0.3 mg/l	SW EQS	no
		magnesium		2.23		mg/l	-	SW EQS	no
		Nickle		<20		ug/l	0.05 mg/l	SW EQS	no
		potassium		0.72		mg/l	5 mg/l	SW EQS	no
		sodium		11.7		mg/l	-	SW EQS	no
		Sulphates		4.78		mg/l	200 mg/l	SW EQS	no
		TDS		46.1		mg/l	-	SW EQS	no
		TON		<0.28		mg/l	-	SW EQS	no
		Total.Coliforms		<1		SELECT	-	SW EQS	no
		Faecal.Coliforms		<1		SELECT	-	SW EQS	no
		SVOC		nr		ug/l	<10 ug/l	SW EQS	no
		VOC		nr		ug/l	<10 ug/l	SW EQS	no
		Selenium		nr		ug/l	-	SW EQS	no
		Pesticides		<0.1		ug/l	0.375 ug/l	SW EQS	no
						SELECT	-	SW EQS	no
10/9/2015	MW12 s	Alkalinity	Annual	23.93		mg/l	-	SW EQS	no
		Boron		0.02		mg/l	2.0 MG/L	SW EQS	no
		Cadnium		<20		ug/l	0.005 mg/l	SW EQS	no
		Chromium		<20		ug/l	0.03 mg/l	SW EQS	no
		calcium		6.19		mg/l	-	SW EQS	no
		copper		<20		ug/l	0.03 mg/l	SW EQS	no
		cyanide		<1		ug/l	0.01 mg/l	SW EQS	no
		Iron		9920		ug/l	1.0 mg/l	SW EQS	no
		Lead		<20		ug/l	0.01 mg/l	SW EQS	no
		Mercury		<10		ug/l	0.001 mg/l	SW EQS	no
		Manganese		562		mg/l	0.3 mg/l	SW EQS	no
		magnesium		2.33		mg/l	-	SW EQS	no
		Nickle		<20		ug/l	0.05 mg/l	SW EQS	no
		potassium		1.31		mg/l	5 mg/l	SW EQS	no

Groundwater/Soil monitoring template				Lic No:	0	Year	2015			
		sodium			10.3		mg/l	-	SW EQS	no
		Sulphates			5.77		mg/l	200 mg/l	SW EQS	no
		TDS			40.3		mg/l	-	SW EQS	no
		TON			<0.5		mg/l	-	SW EQS	no
		Total.Coilforms			2		SELECT	-	SW EQS	no
		Faecal.Coliforms			<10		SELECT	-	SW EQS	no
		SVOC			nr		ug/l	<10 ug/l	SW EQS	no
		VOC			nr		ug/l	<10 ug/l	SW EQS	no
		Selenium			nr		ug/l	-	SW EQS	no
		Pesticides			<0.1		ug/l	0.375 ug/l	SW EQS	no
10/9/2015	MW12 D	Alkalinity		annual	2.68		mg/l	-	SW EQS	no
		Boron			0.02		mg/l	2.0 MG/L	SW EQS	no
		Cadnium			<20		ug/l	0.005 mg/l	SW EQS	no
		Chromium			<20		ug/l	0.03 mg/l	SW EQS	no
		calcium			0.56		mg/l	-	SW EQS	no
		copper			<20		ug/l	0.03 mg/l	SW EQS	no
		cyanide			<1		ug/l	0.01 mg/l	SW EQS	no
		Iron			698		ug/l	1.0 mg/l	SW EQS	no
		Lead			<20		ug/l	0.01 mg/l	SW EQS	no
		Mercury			<10		ug/l	0.001 mg/l	SW EQS	no
		Manganese			332		mg/l	0.3 mg/l	SW EQS	no
		magnesium			1.98		mg/l	-	SW EQS	no
		Nickle			<20		ug/l	0.05 mg/l	SW EQS	no
		potassium			0.62		mg/l	5 mg/l	SW EQS	no
		sodium			12.4		mg/l	-	SW EQS	no
		Sulphates			3.49		mg/l	200 mg/l	SW EQS	no
		TDS			37.4		mg/l	-	SW EQS	no
		TON			<0.5		mg/l	-	SW EQS	no
		Total.Coilforms			<1		SELECT	-	SW EQS	no
		Faecal.Coliforms			<1		SELECT	-	SW EQS	no
		SVOC			nr		ug/l	<10 ug/l	SW EQS	no
		VOC			nr		ug/l	<10 ug/l	SW EQS	no
		Selenium			nr		ug/l	-	SW EQS	no
		Pesticides			<0.1		ug/l	0.375 ug/l	SW EQS	no
10/9/2015	MW13 s	dry	dry	dry	dry	dry	dry	dry	dry	dry
10/9/2015	MW13 D	dry	dry	dry	dry	dry	dry	dry	dry	dry
10/10/2015	MW14 s	dry	dry	dry	dry	dry	dry	dry	dry	dry
10/9/2015	MW14 D	Alkalinity		annual	6.45		mg/l	-	SW EQS	no
		Boron			0.02		mg/l	2.0 MG/L	SW EQS	no
		Cadnium			<20		ug/l	0.005 mg/l	SW EQS	no
		Chromium			,20		ug/l	0.03 mg/l	SW EQS	no
		calcium			1.68		mg/l	-	SW EQS	no
		copper			61		ug/l	0.03 mg/l	SW EQS	no
		cyanide			2		ug/l	0.01 mg/l	SW EQS	no
		Iron			9128		ug/l	1.0 mg/l	SW EQS	no
		Lead			55		ug/l	0.01 mg/l	SW EQS	no
		Mercury			<10		ug/l	0.001 mg/l	SW EQS	no
		Manganese			377		mg/l	0.3 mg/l	SW EQS	no
		magnesium			2.1		mg/l	-	SW EQS	no
		Nickle			<20		ug/l	0.05 mg/l	SW EQS	no
		potassium			0.93		mg/l	5 mg/l	SW EQS	no

Groundwater/Soil monitoring template			Lic No:	0	Year	2015		
		sodium		8.26	mg/l	-	SW EQS	no
		Sulphates		4.87	mg/l	200 mg/l	SW EQS	no
		TDS		28.6	mg/l	-	SW EQS	no
		TON		0.55	mg/l	-	SW EQS	no
		Total.Coilforms		<1	SELECT	-	SW EQS	no
		Faecal.Coilforms		<1	SELECT	-	SW EQS	no
		SVOC		nr	ug/l	<10 ug/l	SW EQS	no
		VOC		nr	ug/l	<10 ug/l	SW EQS	no
		Selenium		nr	ug/l	-	SW EQS	no
		Pesticides		nr	ug/l	0.375 ug/l	SW EQS	no
10/9/2015	MW15 S	Alkalinity		40.57	mg/l	-	SW EQS	no
		Boron		0.01	mg/l	2.0 MG/L	SW EQS	no
		Cadnium		<20	ug/l	0.005 mg/l	SW EQS	no
		Chromium		<20	ug/l	0.03 mg/l	SW EQS	no
		calcium		2.84	mg/l	-	SW EQS	no
		copper		,20	ug/l	0.03 mg/l	SW EQS	no
		cyanide		8	ug/l	0.01 mg/l	SW EQS	no
		Iron		193	ug/l	1.0 mg/l	SW EQS	no
		Lead		<20	ug/l	0.01 mg/l	SW EQS	no
		Mercury		<10	ug/l	0.001 mg/l	SW EQS	no
		Manganese		347	mg/l	0.3 mg/l	SW EQS	no
		magnesium		4.67	mg/l	-	SW EQS	no
		Nickle		<20	ug/l	0.05 mg/l	SW EQS	no
		potassium		0.73	mg/l	5 mg/l	SW EQS	no
		sodium		8.39	mg/l	-	SW EQS	no
		Sulphates		4.1	mg/l	200 mg/l	SW EQS	no
		TDS		41.7	mg/l	-	SW EQS	no
		TON		<0.5	mg/l	-	SW EQS	no
		Total.Coilforms		<1	SELECT	-	SW EQS	no
		Faecal.Coilforms		<1	SELECT	-	SW EQS	no
		SVOC		<10	ug/l	<10 ug/l	SW EQS	no
		VOC		<10	ug/l	<10 ug/l	SW EQS	no
		Selenium		<10	ug/l	-	SW EQS	no
		Pesticides		<10	ug/l	0.375 ug/l	SW EQS	no
10/9/2015	MW15 D	Alkalinity		51.95	mg/l	-	SW EQS	no
		Boron		<20	mg/l	2.0 MG/L	SW EQS	no
		Cadnium		<20	ug/l	0.005 mg/l	SW EQS	no
		Chromium		<20	ug/l	0.03 mg/l	SW EQS	no
		calcium		4.76	mg/l	-	SW EQS	no
		copper		<20	ug/l	0.03 mg/l	SW EQS	no
		cyanide		16	ug/l	0.01 mg/l	SW EQS	no
		Iron		870	ug/l	1.0 mg/l	SW EQS	no
		Lead		<20	ug/l	0.01 mg/l	SW EQS	no
		Mercury		<10	ug/l	0.001 mg/l	SW EQS	no
		Manganese		62	mg/l	0.3 mg/l	SW EQS	no
		magnesium		5.91	mg/l	-	SW EQS	no
		Nickle		<20	ug/l	0.05 mg/l	SW EQS	no
		potassium		1.78	mg/l	5 mg/l	SW EQS	no
		sodium		10.7	mg/l	-	SW EQS	no
		Sulphates		<2.5	mg/l	200 mg/l	SW EQS	no

Groundwater/Soil monitoring template				Lic No:	0	Year	2015	
		TDS		48.9	mg/l	-	SW EQS	no
		TON		<0.5	mg/l	-	SW EQS	no
		Total.Coilforms		<1	SELECT	-	SW EQS	no
		Faecal.Coilforms		<1	SELECT	-	SW EQS	no
		SVOC		<10	ug/l	<10 ug/l	SW EQS	no
		VOC		<10	ug/l	<10 ug/l	SW EQS	no
		Selenium		<10	ug/l	-	SW EQS	no
		Pesticides		<10	ug/l	0.375 ug/l	SW EQS	no
10/9/2015	MW16 S	Alkalinity		8.83	mg/l	-	SW EQS	no
		Boron		0.01	mg/l	2.0 MG/L	SW EQS	no
		Cadnium		<20	ug/l	0.005 mg/l	SW EQS	no
		Chromium		,20	ug/l	0.03 mg/l	SW EQS	no
		calcium		2.02	mg/l	-	SW EQS	no
		copper		<20	ug/l	0.03 mg/l	SW EQS	no
		cyanide		2	ug/l	0.01 mg/l	SW EQS	no
		Iron		11265	ug/l	1.0 mg/l	SW EQS	no
		Lead		<20	ug/l	0.01 mg/l	SW EQS	no
		Mercury		<10	ug/l	0.001 mg/l	SW EQS	no
		Manganese		156	mg/l	0.3 mg/l	SW EQS	no
		magnesium		2.02	mg/l	-	SW EQS	no
		Nickle		<20	ug/l	0.05 mg/l	SW EQS	no
		potassium		0.61	mg/l	5 mg/l	SW EQS	no
		sodium		6.9	mg/l	-	SW EQS	no
		Sulphates		3.63	mg/l	200 mg/l	SW EQS	no
		TDS		31.8	mg/l	-	SW EQS	no
		TON		<0.50	mg/l	-	SW EQS	no
		Total.Coilforms		<1	SELECT	-	SW EQS	no
		Faecal.Coilforms		<1	SELECT	-	SW EQS	no
		SVOC		<10	ug/l	<10 ug/l	SW EQS	no
		VOC		<10	ug/l	<10 ug/l	SW EQS	no
		Selenium		<10	ug/l	-	SW EQS	no
		Pesticides		<10	ug/l	0.375 ug/l	SW EQS	no
10/9/2015	MW16 D	Alkalinity		10.64	mg/l	-	SW EQS	no
		Boron		0.01	mg/l	2.0 MG/L	SW EQS	no
		Cadnium		<20	ug/l	0.005 mg/l	SW EQS	no
		Chromium		<20	ug/l	0.03 mg/l	SW EQS	no
		calcium		2.16	mg/l	-	SW EQS	no
		copper		<20	ug/l	0.03 mg/l	SW EQS	no
		cyanide		2	ug/l	0.01 mg/l	SW EQS	no
		Iron		4814	ug/l	1.0 mg/l	SW EQS	no
		Lead		<20	ug/l	0.01 mg/l	SW EQS	no
		Mercury		<10	ug/l	0.001 mg/l	SW EQS	no
		Manganese		355	mg/l	0.3 mg/l	SW EQS	no
		magnesium		1.72	mg/l	-	SW EQS	no
		Nickle		<20	ug/l	0.05 mg/l	SW EQS	no
		potassium		0.65	mg/l	5 mg/l	SW EQS	no
		sodium		7.68	mg/l	-	SW EQS	no
		Sulphates		3.77	mg/l	200 mg/l	SW EQS	no
		TDS		33.2	mg/l	-	SW EQS	no

Groundwater/Soil monitoring template			Lic No:	0	Year	2015		
	TON		<0.5		mg/l	SW EQS	no	
	Total.Coilforms		<1		SELECT	SW EQS	no	
	Faecal.Coliforms		<1		SELECT	SW EQS	no	
	SVOC		<10		ug/l	<10 ug/l	SW EQS	no
	VOC		<10		ug/l	<10 ug/l	SW EQS	no
	Selenium		<10		ug/l		SW EQS	no
	Pesticides		<10		ug/l	0.375 ug/l	SW EQS	no
<p>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) Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites (EPA 2013).</p>								
<p>**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)</p>						<p>Groundwater Drinking water Surface regulations (private supply) Drinking water (public water EQS GTV's standards supply) standards</p>		

Groundwater/Soil monitoring template

Lic No:

0

Year

2015

Table 3: Soil results

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

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

[Click here to access EPA guidance on Environmental Liabilities and Financial provision](#)

			Commentary
1	ELRA initial agreement status	SELECT	
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	

Environmental Management Programme/Continuous Improvement Programme template	Lic No:	0	Year	2015
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	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	SELECT
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	SELECT
3	Does the EMS maintain an Environmental Management Programme (EMP) with the licence requirements	Suspended until landfill operational
4	Do you maintain an environmental documentation/communication system to monitor environmental performance of the facility, as required	

Environmental Management Programme (EMP) report

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
SELECT		SELECT		SELECT	SELECT
SELECT		SELECT		SELECT	SELECT
SELECT		SELECT		SELECT	SELECT

Noise monitoring summary report Lic No: 0 Year 2015

- 1 Was noise monitoring a licence requirement for the AER period?
If yes please fill in table N1 noise summary below SELECT
- 2 Was noise monitoring carried out using the EPA Guidance note, including completion of the "Checklist for noise measurement report" included in the guidance note as table 6? SELECT
[Noise Guidance note NG4](#)
- 3 Does your site have a noise reduction plan SELECT
- 4 When was the noise reduction plan last updated? Enter date
- 5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey? SELECT

Table N1: Noise monitoring summary											
Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA _{eq}	LA ₉₀	LA ₁₀	LA _{max}	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 site compliant with noise limits (day/evening/night)?
								SELECT	SELECT		SELECT
Noise monitoring suspended until landfill operational											

*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)

- 1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below
- 2 Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information
- 3 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information

Additional information	
Enter date of audit	
SELECT	
SELECT	

Energy Use	Previous year	Current year	year**	production*
Total Energy Used (MWHrs)				
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)				
Fossil Fuels Consumption:				
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				

Suspended until landfill operational

* where consumption of energy 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

Water use	Water extracted		Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	Water Emissions Volume Discharged back to environment(m ³ /yr):	Water Consumption	
	Previous year m3/yr.	Current year m3/yr.				Volume used i.e not discharged to environment e.g. 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

	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)					
Non-Hazardous (Tonnes)					

Resource Usage/Energy efficiency summary Lic No: 0 Year 2015

Table R4: Energy Audit finding recommendations								
Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
			SELECT					
			SELECT					
			SELECT					

Table R5: Power Generation: Where power is generated onsite (e.g. power generation facilities/food and drink industry)please complete the following information

	Unit ID	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 on Site					

WASTE SUMMARY	Lic No: 0	Year 2015
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Table 4 Environmental monitoring-landfill only [Landfill Manual-Monitoring Standards](#)

Was meteorological monitoring in compliance with Landfill Directive (LD) standard in reporting year +	Was leachate monitored in compliance with LD standard in reporting year	Was Landfill Gas monitored in compliance with LD standard in reporting year	Was SW monitored in compliance with LD standard in reporting year	Have GW trigger levels been established	Were emission limit values agreed with the Agency (ELVs)	Was topography of the site surveyed in reporting year	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments

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

Table 5 Capping-Landfill only

Area uncapped*	Area with temporary cap	Area with final cap to LD Standard m2 ha, a	Area capped other	Area with waste that should be permanently capped to date under licence	What materials are used in the cap	Comments
SELECT UNIT	SELECT UNIT					

*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?

SELECT
SELECT

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

Volume of leachate in reporting year(m3)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments

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

Gas 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
			SELECT	

Comments on liner type

