

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	2013
Licence Register Number	W0104-03
Name of site	AES Tullamore
Site Location	Cappincur, Daingean Road, Tullamore, Co. Offaly
NACE Code	
Class/Classes of Activity	3rd Schedule Class D12, D13, D14; 4th Schedule Class R3, R4, R5, R12, R13
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.**

AES Tullamore operates as a Materials Recovery Facility for Mixed Dry Recyables and waste Trasfer Station for Domestic, Commercial, Industrial and C & D wastes. The facility applied for a review of licence in 2013 to increase the waste tonnage at the site from 50000tpa to 60000tpa. the EPA issued a Final Decision to grant the licence review in February 2014. in June 2013, the facilty MRF plant was upgraded to allow for efficeincies in waste processing. The works involved a reconfiguration of the internal sequence of the MRF and the installation of a 2.8m wide ballistic separator and an additional 2.8m optical sorter. In 2013, the facility had 1 Non-compliance in 2013 due to the exceednace of waste tonnage in 2012. There were no incidents or complaints received in 2013.

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.

	
<u>Environmental Officer</u>	
Signature	Date 19/05/2014
Group/Facility manager (or nominated, suitably qualified and experienced deputy)	

AIR-summary template Lic No: W0104-03 Year 2013

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

Additional information	
No	

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 [Basic air monitoring](#) note AG2 and using the 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 therof	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
D1	Total Particulates	Three times/yr	350 mg/m2/day	100 % of values ≤ ELV	239	mg/m2/day	yes	Gravimetric		
D2	Total Particulates	Three times/yr	350 mg/m2/day	100 % of values ≤ ELV	256	mg/m2/day	yes	Gravimetric		
D3	Total Particulates	Three times/yr	350 mg/m2/day	100 % of values ≤ ELV	202	mg/m2/day	yes	Gravimetric		
D4	Total Particulates	Three times/yr	350 mg/m2/day	100 % of values ≤ ELV	267	mg/m2/day	yes	Gravimetric		

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

AIR-summary template		Lic No: W0104-03	Year: 2013
Continuous Monitoring			

4 Does your site carry out continuous air emissions monitoring?
 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

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

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

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						

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

AIR-summary template	Lic No: W0104-03	Year	2013					
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					
			SELECT					
			SELECT					
Table A5: Solvent Mass Balance summary								
	(I) Inputs (kg)	(O) Outputs (kg)						
Solvent	(I) Inputs (kg)	Organic solvent emission in waste (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: W0104-03 Year 2013

Additional information	
<p>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 <u>only</u> need to complete table W1 and or W2 for storm water analysis and visual inspections</p>	No
<p>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 <u>only any evidence of contamination noted during visual inspections</u></p>	SELECT

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
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	

*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)

<p>3 Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below</p>	SELECT	Additional information
<p>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</p> <p>External/Internal Lab Quality checklist Assessment of results checklist</p>	SELECT	

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)			Lic No:	W0104-03	Year	2013
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Table W3: Licensed Emissions to water and /or wastewater (sewer)-periodic monitoring (non-continuous)

Emission reference no:	Emission released to	Parameter/ Substance ^{Note 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
SW-1	Water	BOD	discrete	Quarterly	Quarterly	5	All values < ELV	<2	mg/L	yes	Redox Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	Method 5210-B		
SW-1	Water	Suspended Solids	discrete	Quarterly	Quarterly	25	All values < ELV	<5	mg/L	yes	Gravimetric analysis	APHA / AWWA "Standard Methods"	Method 2540D		
SW-1	Water	Ammonia (as N)	discrete	Quarterly	Quarterly	1	All values < ELV	0.26	mg/L	yes	Nesslerization (Colorimetry)	APHA / AWWA "Standard Methods"	Method 4500-NH3		
SW-1	Water	Mineral oils	discrete	Quarterly	Quarterly	5	All values < ELV	<0.01	mg/L	yes	GC (Gas Chromatography)	US EPA	Method 8015B		
SW-1	Water	pH	discrete	Quarterly	Quarterly	6 to 9	All values < ELV	7.67	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	Method 4500 H+B		
SW-1	Water	Chloride (as Cl)	discrete	Quarterly	Quarterly	250	All values < ELV	21	mg/L	yes	Mercuric Nitrate Titrimetry (Colorimetry)	APHA / AWWA "Standard Methods"	Method 4500-CL-E		
SW-1	Water	Conductivity	discrete	Quarterly	Quarterly	1000	All values < ELV	762	µS/cm @20°C	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	Method 2510B		

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

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: W0104-03 Year 2013

Continuous monitoring

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

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

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

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

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
	<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>		<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>					
	<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>		<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>	<input type="text" value="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?
						<input type="text" value="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 integrity test - all bunding structures which failed including mobile bunds must be listed in the table below, please include all bunds outside the licenced testing period** (mobile bunds and chemstore included)

- 1
- 2 Please provide integrity testing frequency period
- 3 Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" 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 schedule?
- 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?

Yes	
3 years	
Yes	
SELECT	
SELECT	
SELECT	
SELECT	

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?

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)
White Diesel Tank 1	Double Skin Prefabricated		White Diesel	44000		Structural assessment			Yes	Pass		SELECT	2015	
Green Diesel Tank 2	prefabricated		Green Diesel	5000		Structural assessment			Yes	pass		SELECT	2015	
	SELECT					SELECT				SELECT		SELECT		
	SELECT					SELECT				SELECT		SELECT		

* Capacity required should comply with 25% or 110% containment rate 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? [bunding 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 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)

No	
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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: W0104-03	Year 2013
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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. Groundwater monitoring template	no
5	Is the contamination related to operations at the facility (either current and/or historic)	SELECT
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 assessment been carried out for the site?	SELECT
10	Has a Conceptual Site Model been developed for the site?	SELECT
11	Have potential receptors been identified on and off site?	SELECT
12	Is there evidence that contamination is migrating offsite?	SELECT

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 interpretation as an additional section in this AER

Quarterly monitoring was completed at 1 upgradient well (GW-1A) and 2 downgradient wells (GW2&GW3). With the exception of DRO (0.36mg/l) & Mineral Oils (0.13) which exceeded the IGV/GTV (0.01 mg/l) in the upgradient well during the Q4 monitoring event, all remaining parameters at each monitoring location were within their respective IGV/GTV limit values.

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	IGV	Upward trend in pollutant concentration over last 5 years of monitoring data
Quarterly	GW1A	Ammonia as NH3	APHA 2012 4500-NH3 and bluebook Ammonia in waters 1981	Quarterly	0.04	0.03	mg/l	0.065-0.175		no
Quarterly	GW1A	Conductivity	APHA 2012 2510B	Quarterly	546.0	530.0	µS/cm	800 – 1875	1000	no
Quarterly	GW1A	DRO	Gas Chromatography	Quarterly	0.13	0.04	mg/l	0.01	0.01	no
Quarterly	GW1A	pH	APHA 2012 4500 H&B	Quarterly	7.6	7.5	pH Units	-	≥6.5 and ≤9.5	no
17/09/2013	GW1A	COD	APHA 2012 5220D	Annually	<10		mg/l			
17/09/2013	GW1A	Nitrate as NO3	APHA 2012 4500-NO2B. Colorimetric Method	Annually	<0.2		mg/l	37.5	25	no

Groundwater/Soil monitoring template				Lic No:	W0104-03	Year	2013			
17/09/2013	GW1A	Total Ammonia	APHA 2012 4500-NH3 and bluebook Ammonia in waters 1981	Annually	0.1		mg/l	0.065-0.175		no
17/09/2013	GW1A	Total Nitrogen	APHA 2012 4500-NO ₂ B. Colorimetric Method	Annually	<1		mg/l			no
17/09/2013	GW1A	Chloride	APHA 2012 4500-CL-E	Annually	13.0		mg/l		30	no
17/09/2013	GW1A	Fluoride	APHA 2012 4110B	Annually	0.17		mg/l		1	no
17/09/2013	GW1A	Arsenic - dissolved	ICP-MS Based on EPA Method 200.8	Annually	0.002		mg/l	0.0075	0.01	no
17/09/2013	GW1A	Mercury - dissolved	ICP-MS	Annually	<1		ug/l	0.00075	0.001	no
17/09/2013	GW1A	Sulphate	APHA 2012 4110B	Annually	<0.5		mg/l	187.5	200	no
17/09/2013	GW1A	TOC	TOC Analyser	Annually	<5		mg/l			no
17/09/2013	GW1A	Faecal Coliforms	MTM025	Annually	727.0		MPN / 100 ml	0	0	no
17/09/2013	GW1A	Total Coliforms	MTM025	Annually	43.0		MPN / 100 ml	0	0	Data unavailable
17/09/2013	GW1A	VOC's USEPA 524.2 list	GC-FID, GC-MS Based on USEPA 524.2 method	Annually	<10		ug/l	-	-	Data unavailable

.+ 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*	IGV	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
Quarterly	GW2	Ammonia as NH3	APHA 2012 4500-NH3 and bluebook Ammonia in waters 1981	Quarterly	0.08	0.05	mg/l	0.065-0.175		no
Quarterly	GW2	Conductivity	APHA 2012 2510B	Quarterly	718.0	611.0	µS/cm	800 – 1875	1000	no
Quarterly	GW2	DRO	Gas Chromatography	Quarterly	<0.01	<0.01	mg/l	0.01	0.01	no
Quarterly	GW2	pH	APHA 2012 4500 H&B	Quarterly	7.6	7.5	pH Units	-	≥6.5 and ≤9.5	no

Groundwater/Soil monitoring template				Lic No:	W0104-03	Year	2013			
17/09/2013	GW2	COD	APHA 2012 5220D	Annually	<10		mg/l			no
17/09/2013	GW2	Nitrate as NO3	APHA 2012 4500-NO ₃ B. Colorimetric Method	Annually	<0.2		mg/l	37.5	25	no
17/09/2013	GW2	Total Ammonia	APHA 2012 4500-NH ₃ and bluebook Ammonia in waters 1981	Annually	0.1		mg/l	0.065-0.175		no
17/09/2013	GW2	Total Nitrogen	APHA 2012 4500-NO ₃ B. Colorimetric Method	Annually	<1		mg/l			no
17/09/2013	GW2	Chloride	APHA 2012 4500-CL-E	Annually	19.0		mg/l		30	no
17/09/2013	GW2	Fluoride	APHA 2012 4110B	Annually	0.18		mg/l		1	no
17/09/2013	GW2	Arsenic - dissolved	ICP-MS Based on EPA Method 200.8	Annually	0.01		mg/l	0.0075	0.01	no
17/09/2013	GW2	Mercury - dissolved	ICP-MS	Annually	<1		ug/l	0.00075	0.001	no
17/09/2013	GW2	Sulphate	APHA 2012 4110B	Annually	46.00		mg/l	187.5	200	no
17/09/2013	GW2	TOC	TOC Analyser	Annually	5.00		mg/l			no
17/09/2013	GW2	Faecal Coliforms	MTM025	Annually	1.00		MPN / 100 ml	0	0	no
17/09/2013	GW2	Total Coliforms	MTM025	Annually	1.00		MPN / 100 ml	0	0	Data unavailable
17/09/2013	GW2	VOC's USEPA 524.2 list	GC-FID, GC-MS Based on USEPA 524.2 method	Annually	<10		ug/l		-	Data unavailable

Groundwater/Soil monitoring template				Lic No:	W0104-03	Year	2013			
			APHA 2012 4500-NH3 and bluebook		0.04	0.03				
	GW3	Ammonia as NH3	Ammonia in waters 1981	Quarterly			mg/l	0.065-0.175		yes
	GW3	Conductivity	APHA 2012 2510B	Quarterly	589.0	549.0	µS/cm	800 – 1875	1000	no
	GW3	DRO	Gas Chromatograp hy	Quarterly	0.01	0.01	mg/l	0.01	0.01	no
	GW3	pH	APHA 2012 4500 H&B	Quarterly	7.6	7.5	pH Units	-	≥6.5 and ≤9.5	no
	GW3	COD	APHA 2012 5220D	Annually	<10		mg/l			no
	GW3	Nitrate as NO3	APHA 2012 4500-NO ₂ B. Colorimetric Method	Annually	<0.2		mg/l	37.5	25	no
	GW3	Total Ammonia	APHA 2012 4500-NH3 and bluebook	Annually	<0.3		mg/l	0.065-0.175		no
	GW3	Total Nitrogen	APHA 2012 4500-NO ₂ B. Colorimetric Method	Annually	<1		mg/l			no
	GW3	Chloride	APHA 2012 4500-CL-E	Annually	12.0		mg/l		30	no
	GW3	Fluoride	APHA 2012 4110B	Annually	0.18		mg/l		1	no
	GW3	Arsenic - dissolved	ICP-MS Based on EPA Method 200.8	Annually	0.004		mg/l	0.0075	0.01	no
	GW3	Mercury - dissolved	ICP-MS	Annually	<1		ug/l	0.00075	0.001	no
	GW3	Sulphate	APHA 2012 4110B	Annually	9.80		mg/l	187.5	200	no
	GW3	TOC	TOC Analyser	Annually	<5		mg/l			no

Groundwater/Soil monitoring template Lic No: W0104-03 Year 2013

GW3	Faecal Coliforms	MTM025	Annually	<1		MPN / 100 ml	0	0	no
GW3	Total Coliforms	MTM025	Annually	<1		MPN / 100 ml	0	0	Data unavailable
GW3	VOC's USEPA 524.2 list	GC-FID, GC-MS Based on USEPA 524.2 method	Annually	<10		ug/l		-	Data unavailable

*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 EPA. [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 [Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites \(EPA 2013\)](#) (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 regulations](#) [Drinking water \(private supply\)](#) [Drinking water \(public supply\) standards](#) [Interim Guideline Values \(IGV\)](#) [Surface water EQS](#) [GTV's](#)

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

Environmental Liabilities template

Lic No:

W0104-03

Year

2013

[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	Review required and not completed;	Scheduled for completion in 2014
3	Amount of Financial Provision cover required as determined by the latest ELRA	Specify	€130,780
4	Financial Provision for ELRA status	Submitted and not agreed by EPA;	
5	Financial Provision for ELRA - amount of cover	Specify	€130,780
6	Financial Provision for ELRA - type	Public Liability Insurance with Environmental Impairment Liability cover,	
7	Financial provision for ELRA expiry date	Enter expiry date	
8	Closure plan initial agreement status	Closure plan submitted and agreed by EPA	2011
9	Closure plan review status	Review required and not completed	
10	Financial Provision for Closure status	Submitted and agreed by EPA	2011
11	Financial Provision for Closure - amount of cover	Specify	€61,800
12	Financial Provision for Closure - type	Environmental Impairment Liability	
13	Financial provision for Closure expiry date	Enter expiry date	

Environmental Management Programme/Continuous Improvement Programme template	Lic No:	W0104-03	Year	2013
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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	Yes	
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	
4 Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes	

Environmental Management Programme (EMP) report

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Reduction of emissions to Water	Increase frequency of yard sweeping and improve general housekeeping.	90	Introduction of a more efficient sweeper on site	Section Head	Improved Environmental Management Practices
Reduction of emissions to Water	Improve storm water emissions from the site	40	Upgrade and install new wheelwash onsite	Individual	Reduced emissions
Materials Handling/Storage/Bunding	3 Fuel Tanks on site each bunded. Tank 1 White Diesel. Tank 2 Green Diesel. Tank 3 Ad-Blue.	90	Introduction of new tank for Ad-Blue & Green Diesel	Section Head	Improved Environmental Management Practices
Energy Efficiency/Utility conservation	Reduce the volume of Diesel used by AES to by 33% by 2020	100	Introduce Split lift Waste collection Vehicles on certain urban routes to reduce the number of vehicles on the road.	Individual	Reduced emissions

Environmental Management Programme/Continuous Improvement Programme template			Lic No:	W0104-03	Year	2013
Waste reduction/Raw material usage efficiency	reduce office waste by 20% in 2014	50	Introduce brown bins for kitchen and canteen waste in both canteens	Section Head		Improved Environmental Management Practices
Reduction of emissions to Wastewater	Reduce volume of wastewater generated onsite by 25% in 2014	100	Remove automatic flush device in staff male toilets	Individual		Reduced emissions
Materials Handling/Storage/Bunding	further protect Groundwater and surface water onsite	0	Install bund wall around base of double bunded wastewater holding tank	Individual		Increased compliance with licence conditions
Reduction of emissions to Air	Ensure 100% compliance with Emission limit values for Dust monitoring locations at site boundary	60	Erect dust curtains at all entrances to waste processing building	Section Head		Increased compliance with licence conditions
Materials Handling/Storage/Bunding	Improve waste throughput efficiencies by 30%	75	Upgrade the materials recovery plant within the waste processing building. The installation of a 2.8m wide ballistic separator and an additional 2.8m optical sorter	Section Head		Installation of infrastructure

Noise monitoring summary report Lic No: W0104-03 Year 2013

- 1 Was noise monitoring a licence requirement for the AER period?
- If yes please fill in table N1 noise summary below
- 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? [Noise Guidance note](#)
- 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 the last noise survey?

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)?
05/11/2013	30 Mins	N1		60-62	56-58	62-64	73-80	No	SELECT	<p>Site – Occasional traffic entering/exiting site and passing close to monitoring position (7m). Activity within main recycling shed occasionally audible (100m).</p> <p>Background – Continuous passing traffic on Tullamore Bypass (25m) and heavy traffic on the Tullamore Daingean Rd. (15m).</p>	Yes
05/11/2013	30 Mins	N2		61-62	57-58	64-65	73-77	No	SELECT	<p>Site – Occasional traffic entering/exiting site and passing close to monitoring position (8m). Activity within main recycling shed (60m) occasionally audible during periods of low road traffic. Lorry's unloading skips at entrance to reception shed - engines idling.</p> <p>Background – Continuous passing traffic on Tullamore Bypass (180m) and heavy traffic on the Tullamore Daingean Rd. (10m).</p>	Yes

05/11/2013	30 Mins	N3		57-59	53-55	59-61	69-75	No	SELECT	<p>Site – Traffic entering/exiting rear of site (10-50m). Lorry’s idling in rear of yard 30-50m). Activities within reception shed occasionally audible.</p> <p>Background – Off-site noise sources included traffic on the Ring Road and occasional dog barking from dog-pound (30m).</p>	Yes
05/11/2013	30 Mins	N4		61-62	51-54	63-65	71-76	No	SELECT	<p>Site – Traffic entering/exiting rear of site (15m). Lorry’s idling in rear of yard (30-50m). Activities within reception shed occasionally audible. Lorry being loaded with baled plastic by FLT (35m).</p> <p>Background – Off-site noise sources included traffic on the M7 Road which was continuously audible in the distance.</p>	Yes
05/11/2013	30 Mins	NSL	NSL	54-55	48-49	57-58	64-68	No	SELECT	<p>Site –No audible activity.</p> <p>Background – Traffic on the Tullamore bypass dominant. Occasional passing traffic on the Daingean Rd</p>	Yes

*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

Additional information	
Enter date of audit	
SELECT	
SELECT	

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

[SEAI - Large Industry Energy Network \(LIEN\)](#)

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

Table R1 Energy usage on site				
Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	6951.75	7643.72		
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)	284.804	392.52		
Fossil Fuels Consumption:				
Heavy Fuel Oil (litres)				
Light Fuel Oil (m3)	655667	713123		
Natural gas (m3)				
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				
Renewable energy generated on site				

Conversion	
Kerosene	0.009821 MWh/ltr
Gasoil	0.010165 kWh/ltr
Med FO	0.010786 kWh/ltr
DERV	0.010169 kWh/ltr
Petrol	0.009269 kWh/ltr

2012	2013
522100	575973
133567	137150
5309.2349	5857.069437
1357.708555	1394.12975
6666.94	7251.20

* 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

Table R2 Water usage on site					Water Emissions	Water Consumption	
Water use	Water extracted Previous year m3/yr.	Water extracted Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	Volume Discharged back to environment(m ³ /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

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

Resource Usage/Energy efficiency summary Lic No: W0104-03 Year 2013

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: W0104-03	Year: 2013
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES	PRTR Facility Login	dropdown list click to see options

SECTION B- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES

- Were any wastes **accepted onto** your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility ? *(waste generated within your boundaries is to be captured through 1 PRTR reporting)*
 If yes please enter details in table 1 below
- 2 Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information
- 3 Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information

Additional Information	
Yes	
No	
No	

Table 1 Details of waste accepted onto your site for recovery, disposal or treatment (do not include wastes generated at your site, as these will have been reported in your PRTR workbook)

Licensed annual tonnage limit for your site (total tonnes/annum)	EWC code	Source of waste accepted	Description of waste accepted <i>Please enter an accurate and detailed description - which applies to relevant EWC code</i>	Quantity of waste accepted in current reporting year (tonnes)	Quantity of waste accepted in previous reporting year (tonnes)	Reduction/ Increase over previous year +/- %	Reason for reduction/ increase from previous reporting year	Packaging Content (%) - only applies if the waste has a packaging component	Disposal/Recovery or treatment operation carried out at your site and the description of this operation	Quantity of waste remaining on site at the end of reporting year (tonnes)	Comments -
60000	15 01 01	15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	Paper and Cardboard Packaging	5449.326	6296.85	-13%	attempts to reduce waste intake in line with Waste licence tonnage	100%	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	172.52	
	15 01 02	15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	Plastic Packaging	901.476	871.249	3%	improved segregation at source	100%	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	69.008	
	17 01 02	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Bricks	56.82	14.36	296%	improved segregation at source		R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	0	
	17 04 02	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Aluminium	5.34	0	100%	improved segregation at source		R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	0	
	20 02 01	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Garden and Park wastes	47.99	17.84	169%	hot weather in 2013			1	

WASTE SUMMARY		Lic No:		W0104-03		Year		2013	
07 05 14	07- WASTES FROM ORGANIC CHEMICAL PROCESSES	Solid wastes other than those mentioned in 07 05 13* (preproduction wastes from Pharmaceutical company)	51.204	50.366	2%		100%	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	0
15 01 07 c	15- WASTE PACKAGING, ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	Glass packaging from commercial sources	389.275	413.87	-6%	reduction in commercial customers using separate glass collection	100%	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	8
15 01 07d	15- WASTE PACKAGING, ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	Glass packaging from Domestic Sources	19.2	23.48	-18%	Reduction in domestic customers using glass collection	100%	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	
20 01 01np	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Paper and Cardboard (separately collected) - Newsprint	467.42	827.833	-44%	attempts to reduce waste intake in line with Waste licence tonnage		R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	0
20 01 08c	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Biodegradable kitchen and canteen wastes (commercial)	1192.84	595.19	100%	increased use of brown bin due to good weather in 2013		R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	3
20 03 01c	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Mixed Municipal Waste (Commercial)	12205.159	11038.212	11%		15%	D15-Storage pending any of the operations numbered D1 to D14	90
20 03 01d	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Mixed Municipal Waste (Domestic)	11715.994	6860.666	71%		15%	D15-Storage pending any of the operations numbered D1 to D14	55
20 03 01kc	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Mixed Dry Recyclables (Commercial)	613.27	441.43	39%		65%	D9-Physico-Chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means D1 to D12	152.55

WASTE SUMMARY		Lic No:		W0104-03		Year		2013	
20 03 01KD	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Mixed Dry Recyclables (Domestic)	19170.413	24950.13	-23%	attempts to reduce waste intake in line with Waste licence tonnage	65%	D9-Physico-Chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means D1 to D12	0
20 03 03	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Street Cleansing Residues	222.42	190.48	17%	Collected from 3 local authorities in 2013 as opposed to 2 in 2012		D15-Storage pending any of the operations numbered D1 to D14	0
20 03 07C	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Bulky Waste (Commercial)	255.42	632.305	-60%	attempts to reduce waste intake in line with Waste licence tonnage		D15-Storage pending any of the operations numbered D1 to D14	0
20 03 07D	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Bulky Waste (Domestic)	1378.62	969.03	42%			D15-Storage pending any of the operations numbered D1 to D14	0
15 01 03	15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	Wooden Packaging	124.829	94.532	32%	improved classification of waste streams	100%	R3-Recycling/reclamation or organic substances which are not used as solvents(including composting as another biological transformation processes)which includes gasification and pyrolysis	0
15 01 04	15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	Metallic Packaging	32.7	49.18	-34%		100%	R4- Recycling/reclamation of metals and metal compounds	21.077
15 01 05	15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	Composite Packaging	29.009	37.072	-22%	reduced waste generation from 1 commercial customer	100%	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	0
16 01 03	16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST	End-of-life Tyres	7.64	7.58	1%			R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	0
16 01 20	16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST	Windscreen Glass	6.12	0	100%	improved waste classification		R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	0
17 01 01	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	concrete	0.78	0	100%	improved segregation at source		R5-Recycling/reclamation or other inorganic materials which includes soil capping resulting in recovery of the soil and recycling of inorganic construction materials	0
17 01 07	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	mixture of concrete, bricks, tiles, ceramics other than those mentioned in 17 01 06*	157.98	121.64	30%	Improved segregation at source		R5-Recycling/reclamation or other inorganic materials which includes soil capping resulting in recovery of the soil and recycling of inorganic construction materials	1.5

WASTE SUMMARY		Lic No:		W0104-03		Year		2013	
17 02 01	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	C & D wood	340.58	562.891	-39%	improved waste classification	R3-Recycling/reclamation or organic substances which are not used as solvents(including composting as another biological transformation processes)which includes gasification and pyrolysis	0	
17 02 02	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	C & D glass	6.66	3.66	82%	improved waste classification	R5-Recycling/reclamation or other inorganic materials which includes soil celening resulting in recovery of the soil and recycling of inorganic construction materials	2	
17 02 03	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	C & D Plastic	0	7.08	-100%	waste stream not generated	R3-Recycling/reclamation or organic substances which are not used as solvents(including composting as another biological transformation processes)which includes gasification and pyrolysis	0	
17 04 05	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	C & D iron and steel	0	0.26	-100%	waste stream not generated	R4- Recycling/reclamation of metals and metal compounds	0	
17 04 07	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Mixed C & D metals	360.85	552.09	-35%	less waste produced	R4- Recycling/reclamation of metals and metal compounds	2	
17 05 04	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Soil & Stones	8.26	21.4	-61%	less waste accepted to facility	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	5	
17 08 02	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Plasterboard	0	5.22	-100%	waste stream not generated	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	0	
17 09 04	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Mixed C & D wastes	1555.45	3240.93	-52%	less waste accepted to facility	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	0	
18 01 04	18- WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)	Healthcare Wastes (non-hazardous)	640.91	405.02	58%	more waste generated	D15-Storage pending any of the operations numbered D1 to D14	0	

WASTE SUMMARY		Lic No:		W0104-03		Year		2013	
	19 08 02	19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	wastes from desanding	0	133.46	-100%	Waste stream not received into the site	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	0
	19 08 05	19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	sludges from treatment of urban waste water	31.86	3.12	921%	increased number of customers	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	0
	19 12 07	19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	Segregated wood from Waste facility	3.44	0	100%	improved waste classification	R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asanother biological transformation processes)which includes gasification and pyrolysis	0
	20 01 01	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Paper and Cardboard (municipal)	120.97	123.115	-2%		R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asanother biological transformation processes)which includes gasification and pyrolysis	34.815
	20 01 35	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Hazardous WEEE (White goods)	28.18	0	100%		R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	0
	20 01 36	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Non-hazardous WEEE (White goods)	3.2	6.9	-54%		R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	0
	20 01 38	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Wood (Municipal - seperately collected fraction)	4.34	0	100%		R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asanother biological transformation processes)which includes gasification and pyrolysis	1
	20 01 39	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Plastic (Municipal - Seperately collected fraction)	83.972	192.82	-56%		R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asanother biological transformation processes)which includes gasification and pyrolysis	61.604
	20 01 40	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Metals (Municipal - Seperately collected fraction)	124.145	109.819	13%	improved waste classification	R4- Recycling/reclamation of metals and metal compounds	0
				57814.062	59871.08	-3%			

WASTE SUMMARY Lic No: W0104-03 Year 2013
SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES

4 Is all waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list waste processing infrastructure required onsite

Yes	

5 Is all waste storage infrastructure as required by your licence and approved by the Agency in place? If no please list waste storage infrastructure required on site

Yes	

6 Does your facility have relevant nuisance controls in place?

Yes	
-----	--

7 Do you have an odour management system in place for your facility? If no why?

N/A	Not required
-----	--------------

8 Do you maintain a sludge register on site?

N/A	
-----	--

SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY

Table 2 Waste type and tonnage-landfill only

Waste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments

Table 3 General information-Landfill only

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	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area	Comments on liner type
										SELECT UNIT	SELECT UNIT	SELECT UNIT	
Cell 8													

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 SS3(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

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

SELECT

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	