Facility Information Summar	y
Licence Register Number	W0059-03
Name of site	Ballaghaderreen Landfill
Site Location	Aghalustia Townland, Ballaghaderreen, County Roscommon
NACE Code	3821
Class of Activity	Treatment and disposal of non-hazardous waste
RBME risk category	A1
National Grid Reference (6E, 6 N)	163350 292800
	The landfill site stopped accepting waste for disposal to landfill in July 2010. The only waste accepted at the landfill in 2011 was inert waste, EWC Code 170504 (Soil and stones other than that mentioned in 170503). Developments at the site in 2011 included:
A brief description of the activities/process at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance improvements which were measured during the reporting year;	 Placing of 0.8m restoration soils on Cell 8 Landfill Gas Ring mains provided on Cells 6,7 & 8 Main gas collector pipe upgraded to 180mm Open flare decommissioned in July Surface water perimeter drain provided around Cell 8 and connected to the surface water network Surface water draining stone replaced around N & W side of Cell 7
Declaration: All the data and information presented in this quality of the information	report has been checked and certified as being accurate. The is assured to meet licence requirements.

JOHN MOCKLER	28-Mar-12
Signature	Date
Group/Facility manager	
(or nominated, suitably qualified and experienced deputy)	

AER summary template-AIR emissions

Does your site have licensed air emissions? If yes please complete table 1, 2 and 3 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 5 and 6) you <u>only</u> need to complete table 1 fugitive emissions on site below

 Additional information

 For the landfill gas flare and perimeter monitoring boreholes

 Yes
 as per Condition 6 of the Licence

Table 1 Fugitive emissions

Parameter /Substance	Annual fugitive emission (kg/annum)	Quantificaton method M/C/E
SELECT	See PRTR	SELECT

Periodic/Non-Continuous Monitoring

2	Are there any results in breach of licence requirements? If				
	section of Table 2	Yes	Carbon dioxide in perimter boreholes		
3	Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring	Basic air monitoring			
	checklist?	<u>checklist</u>	AGN2	Yes	Flare monitoring not carried out in 2012

Table 2: Licensed Mass Emissions/Ambient data-periodic monitoring (non-continuous)

			ELV in licence							% change in mass load from	
Emission		Date of	or any revision			Unit of	Compliant with		Annual mass	previous year	
reference no:	Parameter/ Substance	Monitoring	therof	Licence Compliance criteria	Measured value	measurement	licence limit	Method of analysis	load (kg)	+/-	Comments
Perimeter monitoring					Max 0.0% v/v						Method of analysis for methane and carbon dioxide in perimeter monitoring boreholes
boreholes GM201-	Methane (CH4)	Monthly	1.0% γ/γ	100 % of values < FLV		SELECT	Ves	SELECT		0	IS IN accordance with Site Operating
					Max 8.3% v/v (GM204, July 2011)						Given that there are no corresponding elevated methane levels within the boreholes then landfill gas is unlikely to be the source of the carbon dioxide. Elevated carbon dioxide concentrations could occur as a result of decomposition processes within the peat into which the monitoring boreholes are installed. It is recommended that the Environmental Protection Agency
Perimeter									Cannot be		(EPA) should be consulted on increasing the
monitoring							no (if no please		calculated as		carbon dioxide trigger levels to 1.5% v/v
boreholes GM201-							enter details in		flow rates are		above the 95% ile carbon dioxide level for
GM208	Carbon dioxide (CO2)	Monthly	1.5% v/v	100 % of values < ELV		SELECT	comments box)	SELECT	not recorded	N/A	each borehole.

3

1

					See comments				N/A - see	N/A - see	Flow monitoring completed on monthly
									comments	comments	basis only, average monthly flow rate is 540
Flare Outlet	volumetric flow	Annually	-			SELECT	SELECT	SELECT			m³/hr
	Nitrogen oxides				N/A - see				N/A - see	N/A - see	Flare monitoring not completed in 2011 -
Flare Outlet	(NOx/NO2)	Annually	<150 mg/Nm ³	100 % of values < ELV	comments	SELECT	SELECT	SELECT	comments	comments	to be completed in 2012
	Total Organic Carbon (as				N/A - see				N/A - see	N/A - see	Flare monitoring not completed in 2011 -
Flare Outlet	C)	Annually	<10 mg/Nm ³	100 % of values < ELV	comments	SELECT	SELECT	SELECT	comments	comments	to be completed in 2012
			Hydrochloric		N/A - see				N/A - see	N/A - see	
			acid - <50		comments				comments	comments	
			mg/Nm3 >0.3								Flare monitoring not completed in 2011 -
Flare Outlet	Total acids	Annually	kg/hr	100 % of values < ELV		SELECT	SELECT	SELECT			to be completed in 2012
			Hydrogen		N/A - see				N/A - see	N/A - see	
			fluoride - <5		comments				comments	comments	
			mg/Nm3 >0.05								Flare monitoring not completed in 2011 -
Flare Outlet	Total acids	Annually	kg/hr	100 % of values < ELV		SELECT	SELECT	SELECT			to be completed in 2012

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

Continuous Monitoring

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 3 and compare it to its relevant Emission Limit Value (ELV)

5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table 3 below

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

Did your site experience any abatement system bypasses? If yes please detail them in table 4 below **Table 3: Summary of average emissions -continuous monitoring**

	Continuous carbon monoxide monitoring required from flow
es	outlet in Table D.7 of licence

Yes	
Yes	
No	

Emission reference no:	Parameter/ Substance	ELV in licence or any revision therof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	% compliance current reporting year
Flare Outlet	Carbon monoxide (CO)	<50 mg/Nm ³	Daily	Daily average < ELV	SELECT	Flare monitoring not completed in 2011 - to be completed in 2012	Flare monitoring not completed in 2011 - to be completed in 2012	Flare monitoring not completed in 2011 - to be completed in 2012	0

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

Table 4: Abatement system bypass reporting table

Bypass protocol

Tuble II/(bute												
Date*	Duration** (hours)	Location	Reason for bypass	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

л
4

7





8 Do you have a total Emission Limit Value of direct and fugitive emissions on site? if yes please fill out table 5

Table 5: Solvent Management Plan Summary Total VOC Emission limit value			<u>Solvent</u> regulations	Please refer to linked solven complete table 5 a	t regulations to 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 therof	Compliance			
					SELECT			
					SELECT			
Table 6: So	olvent Mass Balance	summary				-		
	(I) Inputs (kg)			()	O) Outputs (kg)			
Solvent	(I) Inputs (kg)	Organic solvent emission in waste gases(kg)	Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g. by- passes (kg)	Solvents destroyed onsite through physical reaction e.g. incineration(kg)	Total emission of Solvent to air (kg)
		•				•		

No Total

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

			Additional information
1	Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table 3 and 4 below for the current reporting year and answer further questions. If you do not have licenced emissions you <u>only</u> need to complete table 1 and /table 2 below for ambient monitoring and visual inspections	Yes	The lagoon provides buffer storage for leachate pumped from the lined cells, before it is pumped to the public sewer to discharge to Ballaghaderreen STW.
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 2 below summarising <u>only any evidence of contamination noted during visual inspections</u>	Yes	Yes, Table D.5.1 requires weekly visual inspection of surface water

Table 1 Ambient monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
N/A	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	

*trigger values may be agreed by the Agency outside of licence conditions

Table 2 Visual inspections-Please only enter details where contamination was observed.

Location Reference	Date of inspection	Description of contamination	Source of contamination	Corrective action	Comments
N/A -no					
contamination	Weekly				
observed			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 3 below	No	Additional information	
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 Lab Quality require improvement in additional information box checklist	Yes		

Table 3: Licensed Emissions to water and /or wastewater (sewer)-periodic monitoring (non-continuous)

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Date of Monitoring	Averaging period	ELV or trigger values in licence or any revision therof ^{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	% change in mass I load from previous year +/-	Comments
LS-1	Wastewater/Se wer	volumetric flow	discrete	Weekly	SELECT	N/A	No flow value shall exceed the specific limit.	Total 23,693 m ³	m3/day	yes	INSTRUMENTAL METHODS	Other (please specify)	Standard Operating Procedure SOP 16	N/A	N/A	
LS-1	Wastewater/Se wer	Volatile organic compounds (as TOC)	discrete	Frequency and method are still to be agreed with EPA		0.14 mg/l		N/A	mg/L				N/A	N/A	N/A	This relates to methane, which could not be selected from drop down box

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

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

5

If yes please summarise your continuous monitoring data below in Table 4 and compare it to its relevant Emission Limit Value (ELV)

Did continuous monitoring equipment experience downtime? If yes please record downtime in table 4 below

Do you have a proactive service contract for each piece of continuous monitoring equipment on $^{7}\ _{\text{site}}$

⁸ Did abatement system bypass occur during the reporting year? If yes please complete table 5 below

Table 4: Summary of average emissions -continuous monitoring

Emission	Emission		ELV or trigger values in licence or	Averaging	Compliance	Linits of	Annual Emission for current	% change +/- from previous reporting	Monitoring	% compliance	
2111331011	LIIII33IOII				compliance	Office Of	reporting year	year	Equipment	current reporting	
reference no:	released to	Parameter/ Substance	thereof	Period	Criteria	measurement	(kg)		downtime (hours)	year	Comments
	SELECT	SELECT		SELECT	SELECT	SELECT					
	SELECT	SELECT		SELECT	SELECT	SELECT					

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

Table 5: Abatement system bypass reporting table

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

No

*Measures taken or proposed to reduce or limit bypass frequency

No N/A No N/A

Additional Information

Table D.8.1 in Licence requires daily flow monitoring and methane monitoring at a frequency 'to be agreed'. We have assumed that daily flow monitoring is not classified as continuous monitoring.



Bund/pipe testing report summary ALL I	PPC/WASTE licensed facilities	Intensive agricultu	re facilities please use alternative template
Bund testing	dropdown menu click	k to see options	

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 1 below listing all bunds and		
1 containment structures on site	Yes	Condition 10.4 c) of licence
2 Please provide integrity testing frequency period	3 years	Condition 3.10.5 of the licence
Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to 3 "Chemstore" type units and mobile bunds)	Yes	

Table 1: Summary details of bund integrity test sults of Integrity reports maintained on retest(if in und/Containmen tegrity test failure eduled dat rrent Specify Other type Granular basal support layer Type of integrity test Other test type Test date structure ID duct containme Actual capacity apacity required* ults of test xplanation <50 words rrective action taken r retest eporting year BES layer, HDPE layer, N/A: bund walls form t geotextile protection layer and structure of the lagoor granular layer supported by geoweb on side slopes i.e. it is not a bund containing a tank, etc.) Structural assessment 09/09/2009 Leachate lagoon bund other (please specify) roximately 800 m³ ELECT Commentary Lagoon integrity tested every 3 years Has integrity testing been carried out in accordance with licence requirements and are all structures tested in 4 line with BS8007/EPA Guidance? bunding and storage accordance with licence onnecting pipework to lagoon was 5 Are channels/transfer systems to remote containment systems tested? ested following installation in 2003 Yes onnecting pipework to lagoon was 6 Are channels/transfer systems compliant in both integrity and available volume? tested following installation in 2003 High level alarms installed in pump Yes sumps and leachate lagoon In accordance with Site Operating 7 Do all sumps and chambers have high level liquid alarms? Yes 8 If yes to Q7 are these failsafe systems included in a maintenance and testing programme? Yes Procedures Pipeline/underground structure testing Are your 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 Pipework installed under CQA No 2 Please provide integrity testing frequency period Other (please specify) N/A Table 2: Summary details of underground structures/pipeline integrity test Type of secondary containment ntegrity test Does this structure have Scheduled date Results of retest(if in current ntegrity reports failure explanation Corrective action reporting year) SELECT Structure ID Type system terial of construction condary containment? pe integrity testing aintained on site? ults of test 50 words or retest SELECT SELECT SELECT

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

Yes No N/A c)nothing other (please specify) 1 2 3 4 5 7 8 a)invest in capital improveme b) operational improvements reinforced concrete general purpose concrete prefabricated Pass Fail Storm Foul Process Pass Storm steel ceramic Double walled piping Pipe in channel concrete pvc polypropylene other(please specify) Mix (please specify) Other (please specify) Air CCTV Hydraulic Relined Combination Replaced section Repaired crack Removed obstruction Other (please describe) 3 years Hydraulic test Other (please specify) Structural assessment Other (please specify)

Complaints			l
		Additional information	tion
Have you received any environmental complaints in the current reporting year? If yes please complete summar	y		
details of complaints received on site in table 1 below	Yes		l

Table 2	L Complaints summary						
			Brief description of				
D 1			complaint (Free txt <20	Corrective action< 20			Further
Date	Category	Other type (please specify)	words)	words	Resolution status	Resolution date	information
						See written	
			Landfill Gas Odour at	Source of adour		responses	Complaint 2011-
07/06/2011	Odour		residence	investigated	Complete	submitted to EPA	
07/00/2011			residence	Investigated	complete	Submitted to LIA	01
						See written	
			Landfill Gas Odour at	Source of odour		responses	Complaint 2011-
08/06/2011	Odour		residence	investigated	Complete	submitted to EPA	02
						See written	
			Landfill Gas Odour at	Source of odour		responses	Complaint 2011-
30/09/2011	Odour		residence	investigated	Complete	submitted to EPA	03
	SELECT				SELECT		
	SELECT				SELECT		
Total complaints							
open at start of							
reporting year	0						
Total new		1					
complaints received							
during reporting							
year	3	1					
Total complaints							
closed during							
reporting year	3						
Balance of							
complaints end of							
reporting year	0	l					

Incidents		
		Additional information
Have any incidents occurred on site in the current reporting year? Please list all incidents for current reporting		
year in Table 2 below	No	

*For information on how to report and what constitutes an incident <u>What is an incident</u>

Table 2 Incidents summary		1												
						Other					Preventative			
			Incident category*please			cause(please	Activity in progress			Corrective action<20	action <20		Resolution	Liklihood of
Date of occurrence	Incident nature	Location of occurrence	refer to guidance	Receptor	Cause of incident	specify)	at time of incident	Communication	Occurrence	words	words	Resolution status	date	reoccurence
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
Total number of														
incidents current														
year														
Total number of														
incidents previous														
year		<u> </u>												

% reduction/	
increase	

Groundwater /Contaminated land summary report

		Comments
Are you required to carry out groundwater monitoring as part of your licence		See Schedule D of
requirements?	yes	Licence
2 Are you required to carry out soil monitoring as part of your licence requirements?	no	
3 De vou extract groundwater fer use en site? If ves please specify use in comment section	20	
bo you extract groundwater for use on site? If yes please specify use in comment section	110	Cells 1 to 5 at the site
		were designed and
		operated on the
4		principles of dilute and
		disperse and are
Is there contaminated land and /or groundwater on site? If yes please answer q's 5-12	yes	therefore unlined.
5 Is the contamination related to operations at the facility (either current and/or historic)	ves	Yes, see above
6	,	
		Capping and landfill
Have actions been taken to address contamination issues?If ves please summarise		gas/leachate
remediation strategies proposed/undertaken for the site	ves	management of Cells 1-5
7 Please specify the proposed time frame for the remediation strategy	yes	Ongoing
8 Is there a licence condition to carry out/update ELRA for the site?	yes	Condition 12.4.2
		Waste Licence Review
9		application, Entec
		reference 00966RR529i2
Has any type of risk assesment been carried out for the site?	yes	dated March 2002
		Refer to EMS, latest
		Entec (now AMEC) ref:
10		15951RR689i1 and
		Waste Licence Review
		application, Entec
		reference 00966RR529i2
Has a Conceptual Site Model been developed for the site?	yes	dated March 2002
		Refer to EMS, latest
		version is 2010 update,
11		LEGE 1886801 and
		Waste Licence Review
		application. Entec
		reference 00966RR529i2
Have potential receptors been identified on and off site?	yes	dated March 2002
		Exceedances of trigger
12		level for ammoniacal
		nitrogen in downgradient
Is there evidence that contamination is migrating offsite?	yes	borehole BH102 this year

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	DWS	% change in average concentration previous year +/-	Upward trend in pollutant concentration over last 5 years of monitoring data
9/3, 11/5, 17/8 and 4/10 2011	BH 04/1	Ammonical Nitrogen	Site Operating Procedure SOP 15	Quarterly	0.103	0.068	mg/l	3	0.3	-34.82%	yes
9/3, 11/5, 17/8 and 4/10 2011	BH 04/1	Chloride	Site Operating Procedure SOP 15	Quarterly	30.67	29.82	mg/l	100	250	-0.45%	yes
9/3, 11/5, 17/8 and 4/10 2011	BH 04/1	тос	Site Operating Procedure SOP 15	Quarterly	6.6	5.57	mg/l	80	Not available	-12.05%	yes

.+ 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*	DWS	% change in average concentration previous year +/-	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
9/3, 11/5, 17/8 and 4/10 2011	BH102	Ammonical Nitrogen	Site Operating Procedure SOP 15	Quarterly	6.13	4.09	mg/l	3	0.3	305.29%	yes
9/3, 11/5, 17/8 and 4/10 2011	BH102	Chloride	Site Operating Procedure SOP 15	Quarterly	22.9	17.4	mg/l	100	250	17.30%	yes
9/3, 11/5, 17/8 and 4/10 2011	BH102	тос	Site Operating Procedure SOP 15	Quarterly	13.1	9.88	mg/l	80	Not available	27.87%	ves
9/3, 11/5, 17/8 and 4/10 2011	BH103	Ammonical Nitrogen	Site Operating Procedure SOP 15	Quarterly	2.3	1.85	mg/l	3	0.3	52.35%	yes
9/3, 11/5, 17/8 and 4/10 2011	BH103	Chloride	Site Operating Procedure SOP 15	Quarterly	21.7	19.4	mg/l	100	250	8.24%	yes
9/3, 11/5, 17/8 and 4/10 2011	BH103	тос	Site Operating Procedure SOP 15	Quarterly	9.3	7.6	mg/l	80	Not available	18.20%	yes

* please note exceedance of a relevant Groundwater threshold value (GTV) at a representative monitoring point does not indicate non compliance, an exceedance triggers further investigation to confirm whether the criteria for poor groundwater chemical status are being met.

**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. it the site is close to surface water compare to Surface Water Environmental Quality Standards (SWEQS), If the site is close to a drinking water supply compare results to the Drinking Water Standards (DWS)

	Groundwater	Drinking w
Surface	regulations	(private su
water EQS	GTV's	standards

water supply)

Drinking water (public Interim Guideline supply) standards

Values (IGV)

Table 3: Soil results

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

Where addi	itional detail is required please enter it here in 200 words or less	;

	Environmenta	al Liability Risk	Assessment
			Commentary
L	Is it a requirement of your licence to complete an ELRA?	Yes	Condition 12.4.2 of licence
2	Has an initial ELRA been submitted to and approved by the Agency?	No	First ELRA submission planned for 2012
	Please enter the date of submission of the initial ELRA	2012	First ELRA submission planned for 2012
	Date of most recent substantial ELRA update	2012	First ELRA submission planned for 2012
			Finance for this will be made available from Central
	What financial instrument/s do you have in place to cover unknown liabilities?	Other	Ioans from Central Government.
	Has this financial instrument/s been verified by the Agency?	Yes	
	What is the date of expiry of this financial instrument?	No date of expiry	
	Date of next required review of the ELRA?	2015	Assuming 2012 submission of ELRA

9 Please list the top 10 risks assessed on your site in table 1 below

Table 1 ELRA summary information

Table 1	ELRA summary information								
Click here to access EPA guidance on ELRA	Operational Risk Assessment Category	SELECT							
				Mitigat	tion measures to redu Date of implementation of mitigation	ice risk	ELF Revised Risk score for	RA	Does the current financial provision (FP) cover the risk
Risk ID	Potential hazards	Environmental effect	Previous risk score	Action	measures	Comment	current reporting year	ELRA costing	score?
ELRA NOT COMPLETED YET			6	Infrastructural improvements			3		Yes
SELECT			SELECT	SELECT			SELECT		SELECT
SELECT			SELECT	SELECT			SELECT		SELECT
SELECT			SELECT	SELECT			SELECT		SELECT
SELECT			SELECT	SELECT			SELECT		SELECT
SELECT			SELECT	SELECT			SELECT		SELECT
SELECT			SELECT	SELECT			SELECT		SELECT
SELECT			SELECT	SELECT			SELECT		SELECT
SELECT			SELECT	SELECT			SELECT		SELECT
SELECT		1	SELECT	SELECT			SELECT		SELECT
SELECT			SELECT	SELECT			SELECT		SELECT
SELECT			SELECT	SELECT			SELECT		SELECT
Total			SELECT	SELECT			SELECT		SELECT

Closure Restoration Aftercare Management Plan/ Restora	ition blan	(CRAMP	/RP)	l
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			Restoration plan required by
			condition 4.7. CRAMP not
1	Was a closure or restoration plan a requirement of the licence?	Yes	required in Licence
2	Has a closure plan submission been approved by the Agency?	No	
3	What is the timescale for submission?	Not yet agreed	
			Finance for this will be made available from Central Government funds by ways of
4	What financial instrument do you have in place to cover known liabilities?	Other	loans from Central Government.
_			
5	What is the date of expiry of this financial instrument?	No date of expiry	
		All cells have been	
6	What is the status of implementation of the plan?	restored	

Table 2 CRAMP summary information (NON Landfill)

					Change in Risk		Does the current	Value of current
				Restoration Aftercare	category since		financial provision	financial provision
Date of submission of plan	Risk category	Closure plan in place	Clean closure	Management Plan	previous year	Increase in risk category	cover the risk score?	for site
N/A - CRAMP not required	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	

	Environmental Management Program	ne (EMP)/Continuous Improver	ment Programme	
	Highlighted cells contain dropdown menu click to view		Additional Information	
1	Do you maintain an Environmental Mangement System for the site. If yes, please detail in additional information	Yes	Latest version is 2010 updat 15951RR	e, Entec (now AMEC) ref: 8689i1
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	Yes, see above	e document
	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance			
3	with the licence requirements	Yes	Yes, see above	e document
			The Connacht Waste Annua Roscommon County Council web operation and condition of the Environmental information on the	Il Report, available on the osite, includes a section on the e landfills within the county. e site is also available within the
	Do you maintain an environmental documentation/communication system to inform the public on		Connacht Waste Plan, a copy o	f which is also on the Council
4	environmental performance of the facility, as required by the licence	Yes	websi	ite.

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
	Complete landscaping of				Increased compliance with
Additional improvements	Cell 8	70	Plant grass and trees.	Section Head	licence conditions
	No injuries to public or third	ł	Improved signs, clear access		
	party property damage.		and parking, improved		
			arrangements for tipping of		
			waste from domestic users.		
Additional improvements		100		Section Head	Less complaints
	Increased awareness of		Open-days, visits and		
	waste issues for facility		documents for the public.		
Additional improvements	users.	100		Section Head	Less complaints

Noise Monitoring Report Summary

1	Was noise mo	nitoring a licenc	e requirement fo	or the AER period	1?		Yes			
	If yes please fi	ill in table 1 nois	e summary below	N						
2	Was noise mo "Checklist for	nitoring carried noise measurem	out using the EP	A Guidance note Jded in the guida	<u>Draft Noise</u> Guidance	No				
3	Does your site	e have a noise re	duction plan	0		No				
4	When was the	e noise reductior	n plan last update	ed?						
5	Have there b	een changes rele	evant to site nois	Yes						
[Table 1: Noise	e monitoring sur	mmary				1			
	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?
ľ	Not complete	d (see below)							SELECT	SELECT
		1					•	1		

*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?

** please explain the reason for not taking action/resolution of noise issues?

Noise monitoring is required as per Table D.4.1 of the licence on an annual basis, but was not carried out in 2011 as the landfill site had ceased accepting waste for disposal. Noise monitoring was last carried out on 6 December 2010.

Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is <u>site c</u> ompliant with noise limits (day/evening/night)?
	SELECT

SELECT



			Additional information
		Site energy use	
		reviewed as part of	
		AER, no	
		recommendations as	
		landfill site is now	
1	When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below	closed.	
	SEAI - Large Industry		
	Is the site a member of any accredited programmes for reducing energy usage/water conservation such <u>Energy Network</u>		The Council is not part
2	as the SEAI programme linked to the right? If yes please list them in additional information (LIEN)	no	of the LIEN
			N/A - fuel oil not used
	Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in		in boilers on site.
3	additional information	SELECT	

Table 1 Energy usage	e on site			
			Production +/- %	
			compared to	Energy Consumption
			previous reporting	+/- % vs overall site
Energy Use	Previous year kWh	Current year kWh	year**	production*
Total	517979.2	151021	N/A	N/A
Electricity	164272	151021	N/A	N/A
Fossil Fuels:		0		
Heavy Fuel Oil		0		
Light Fuel Oil	353707.2	0	N/A	N/A
Natural gas		0		
Coal/Solid fuel		0		
Renewable energy generated on site		0		

* 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 yea Table 2 Water usage on site

Water use	Previous year m3/yr.	Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Groundwater				
Surface water				
Public supply	Not known	Not known, but minimal as only the office was used on site in 2011 by one staff member, estimate 12 m ³ /yr	N/A	N/A
Total	Not known	12	N/A	N/A

* 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 yea

Table 3: Energy Audit finding recommendations								
		Description of		Predicted energy				Status and
Date of audit	Recommendations	Measures proposed	Origin of measures	savings %	Implementation date	Responsibility	Completion date	comments
None available			SELECT					
			SELECT					
			SELECT					

							-					
	SECTION B- WAST	E ACCEPTED ONTO SITE-TO	BE COMPLETED BY ALL	IPPC AND WASTE FA	CILITIES							
								Additional Information	-			
			di			alle 2. (and a second stable second						
	houndaries is to be capt	tured through DRTR reporting)	disposal of treatment prior to re	covery or disposal within i	the boundaries of your la	cincy r; (waste generated within your	No	Landfill closed in 2011				
	boundaries is to be capi	tured through PKTK reporting)					NO	Landini closed in 2011	1			
	If yes please enter deta	ils in table 1 below						r	-			
2	Did your site have any r	rejected consignments of waste in t	the current reporting year? If ye	s please give a brief explar	nation in the additional in	nformation	No	Landfill closed in 2011				
3	Was waste	accepted onto your site that was	generated outside the Republic	of Ireland? If yes please st	ate the quantity in tonne	s in additional information	N/A	Landfill closed in 2011				
	Table 1 Details	of waste accepted onto	your site for recover	y, disposal or trea	tment (do not in	clude wastes generated a	t your site,	as these will hav	e been reported	in your PRTR workboo	ok)	
	Licenced annual	EWC code	Source of waste accepted	Description of waste	Quantity of waste	Quantity of waste accepted in	Reduction/Incr	Reason for	Packaging Content (%)-	Disposal/Recovery or	Quantity of	Comments -
	tonnage limit for your			accepted	accepted in current	previous reporting year (tonnes)	ease over	reduction/increase	only applies if the waste	treatment operation carried out	waste remaining	
	site (total			Please enter an accurate	reporting year (tonnes)		previous year	from previous	has a packaging	at your site and the description	on site at the	
	tonnes/annum)			and detailed description			+/ - %	reporting year	component	of this operation	end of reporting	
				 which applies to 							year (tonnes)	
		European Waste Catalogue EWC		European Waste								
		codes_		Catalogue EWC codes								
r -		ACCEPTED AT DECKELING CENTRE					#000//01		01/	CELECT.		
E.g.	SEE PRIR FOR WASTES	ACCEPTED AT RECTCLING CENTRE	OF CEU 8				#DIV/01		0%	SELECT		
L-8-	SEE TABLE 2 FOR WAST	ES ACCEPTED FOR RESTORATION	07 CEEE 8				#DIV/01		078	SELECT		
										SEECT		
	1	1			1	1	#DB//01		1	CELECT		

PLETED BY ALL IPPC AND WASTE FACILITIES PRIME dropdown list click to see options dropdown list click to see options

ities etc) EXCEPT LANDFILL SITES O BE COMPLETED BY ALL WASTE FA SEC

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 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

N/A	No waste processing infrastructure
SELECT	
Yes	
Yes	Refer to Site Operating Procedure SOP7
Yes	Odour Management Procedure in place, SOP ref: SOP29
No	

6 Does your facility have relevant nuisance controls in place? 7 Do you have an odour management system in place for your facility? If no why? 8 Do you maintain a sludge register on site?

3 Do you maintain a sludge register on site?		bo you have an output management system in place for your facility. In	
	3	Do you maintain a sludge register on site?	

	SECTION D-TO BE	COMPLETED BY LANDFILL			
	Table 2 Waste type	e 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
	170504	20,000	15,700	0	Approximate figure, based on 0.8m thickness of soil and stones over area of Cell 8 (15700m ²) multiplied by 1.25 to convert from m ³ to tonnes (as per published WRAP conversion factors)
e.g.					

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	
Cells 1-8	1980	2010	No	Public	Non Hazardous	Landfilling now complete	Yes	No	No	5.02ha	2.27ha	2.75ha	0.5 m BES and 2mm HDPE

Table 4 Environmental monitoring-landfill or Landfill Manual-Monitoring Standards

Was meterological monitoring in	Weslesshots menitored in	Wee Londfill Cos monitored in	Was SW monitored in			Was topography	Has the statement under	
Directive (LD) standard	compliance with LD standard in	compliance with LD standard in	compliance with LD	Have GW trigger levels	Were emission limit values agreed with	surveyed in	submitted in reporting	
in reporting year +	reporting year	reporting year	standard in reporting year	been established	the Agency (ELVs)	reporting year	year	Comments
								There will be no
								statement for 2011 as it
								is understood that
								there are no charges to
Voc	Vec	Voc	Vec	Voc	Vec	Voc	No	levy on a closed landfill

Yes Yes Yes Yes Yes Yes A Please refer to Landfill Manual linked above for relevant Landfill Directive monitoring standards
Table 5 Capping-Landfill only

Area uncapped* SELECT UNIT	Area with temporary cap SELECT UNIT	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
					Regraded waste, regulating layer,	
					geosynthetic gas drainage layer,	
					LLDPE geomembrane and a	
					geosynthetic drainage layer.	
None	None	5.02 ha	None	None	Restoration soils	

 None
 None
 5.02 ha
 None

 *please note this includes daily cover area
 Table 6 Leachate-Landfill only
 Status
 Stat

leachate released to s	surface water? If yes please comp	lete leachate mass load informat	tion below			No	
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
							Mass loads based on
							annual leachate lagoo
							data multiplied by
							volume of leachate
226023	971	7392	24	4228	Dosed with ferric nitrate	Acetogenic	discharged

Please ensure that all info 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
				Estimate of gas
				captured and treated
				by LFG system. Surface
				emissions monitoring
				completed in July 2011
				by Odour Monitoring
3679200	0	Flared off	Yes	Ireland