Facility Information Summary	
Licence Register Number	W0028-03
Name of site	Ballydonagh Landfill
Site Location	Ballydonagh, Dublin Rd, Athlone, Co Westmeath.
NACE Code	3821
	This landfill closed in July 2010 and since then a civic waste facility is
	operated by Oxigen Environmental for household waste. This waste
Class of Activity	is transferred off site to licensed facilities.
RBME risk category	A1 (2010)
National Grid Reference (6E, 6 N)	(-)6.22878 53.3496
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	This landfill closed in July 2010 and since then a civic waste facility is operated by Oxigen Environmental for household waste. This waste is transferred off site to licensed facilities. The amount of waste taken in 2011 was
infrastructural changes, environmental	2614 tonnes. This compares to the figure of 1184 tonnes for 5 months in 2010. There were no engineering works
measured during the reporting year;	temporarily capped. The temporary capped section will be fully capped in 2012. There was a major reduction in Incidents in 2011 over 2010. This was due to the fact that the landfill was closed and there were no activities on
	site, other than at the civic amenity part, in 2011.
Declaration:	
All the data and information presented in this repor	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.
The id Shanky	17/04/12

Date

Signature iroup/Facility man

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 only need to complete table 1 fugitive emissions on site below

Additional information

Licence requires monitoring for Nox, SO2 and TOC. This was not carried out in 2011. It will be done in early 2012.

Table 1 Fugitive emissions

Parameter /Substance	Annual fugitive emission (kg/annum)	Quantificaton method M/C/E
Methane (CH4)	9,000	М
Carbon dioxide (CO2)	108,000	Μ

Periodic/Non-Continuous Monitoring

2	Are there any results in breach of licence requirements? If section of Table 2	SELECT			
3	Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist?	<u>Basic air</u> monitoring checklist	AGN2	SELECT	

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

										% change in mass load	
Factories			ELV in licence			l la la af	Consultant with			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
	SELECT			SELECT		SELECT	SELECT	SELECT			
	SELECT			SELECT		SELECT	SELECT	SELECT			

Yes

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

1



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 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?

7

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

No	

SELECT	
SELECT	
SELECT	

Emission reference no:		Averaging Period	•	Units of measurement	Annual Emission	Equipment	% compliance current reporting year	Comments

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

Table 4: Abatement system bypass reporting table

Date* Duration** (hours) Location Reason for bypass Corrective action Image: Construction of the second of the seco

Bypass protocol

* 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



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

	nt Management Plan ssion limit value	Summary	<u>Solvent</u> regulations	Please refer to linked solvent regulations to complete table 5 and 6		
eporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site (direct and fugitive)		Total Emission Limit Value (ELV in licence or any revision thero		
					SELECT	
					SELECT	
Table 6: So	olvent Mass Balance	summary		•	<u>.</u>	
	(I) Inputs (kg)				(O) Outputs (kg)	
Solvent		Organic solvent	Solvents lost in	Collected waste solvent (kg)	Fugitive Organic	

	(I) Inputs (kg)				(O) Outputs (kg)			
Solvent	(I) Inputs (kg)	Organic solvent emission in waste gases(kg)	water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	other ways e.g. by- passes (kg)	Solvents destroyed onsite through physical reaction e.g. incineration(kg)	Solvent to air (kg)
					-		Total	

SELECT



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	No	There are 3 surface water monitoring points - SW1 is US of the site. SW2 - is DS of the site and SW3 is on a small drain (dry in fine weather) that comes from beside the landfill.
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 only any evidence of contamination noted during visual inspections		
	Table 1 Ambient monitoring	Yes	No evidence of contamination

	1	-								
Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter			Licence Compliance criteria	Measured value		Compliant with licence	Comments
SW1	upstream	SELECT	Ammonia (as N)	Quarterly		SELECT	<0.04 - 0.06	mg/L	SELECT	Complies with A1 values as set out in the EC (Quality of Surface Water Intended for the Abstraction of Drinking Water) Regulations, 1988[S.I. No. 294 of 1989].
SW1	upstream		Chloride	Quarterly			19.2 - 40.5	mg/L		As above
SW1	upstream		BOD	Quarterly			<1 - 1	mg/L		as above
SW2	downstream		Ammonia (as N)	Quarterly			<0.04 - 0.07	mg/L		as above
SW2	downstream		Chloride	Quarterly			21.2 - 40.1	mg/L		as above
SW2	downstream		BOD	Quarterly			<1	mg/L		as above
SW3	downstream		Suspended Solids	Quarterly	35	All values < ELV	Range of 4 to 9	mg/L	Yes	as above

*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
			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 y comment section of Table 3		rief details in the	SELECT	Additional information	
	Was all monitoring carried out in accordance with EPA					
	guidance and checklists for Quality of Aqueous Monitoring	External /Internal				
	Data Reported to the EPA? If no please detail what areas	Lab Quality	Assessment of			
4	require improvement in additional information box	<u>checklist</u>	results checklist	SELECT		

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

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1		Date of Monitoring		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 standard number	Annual mass load	% change in mass load from previous year +/-	
	SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT				

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

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

Continuous monitoring

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

Additional Information

SELECT

SELECT

SELECT

SELECT

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

 $^{6}\,$ 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 site?

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

Table 4: Summary of average emissions -continuous monitoring

	Emission	Emission		ELV or trigger values in licence or any revision		Compliance		for current	% change +/- from previous reporting year			
r	eference no:	released to	Parameter/ Substance	thereof	Period	Criteria	measurement	(kg)		downtime (hours)	% compliance current reporting year	Comments
Γ		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	report
						the EPA?	submitted?
						SELECT	

*Measures taken or proposed to reduce or limit bypass frequency

ts

	Bund/pipe testing report summary ALL IPPC/WASTE licensed facilities	Intensive agriculture facilities please use alternative template		
	Bund testing dropdown menu click to	o see options		Additional information
	Are you required by your licence to undertake integrity testing on bunds and containment	ent structures ? if yes please fill out table 1 below listing all bunds and containmen		
1	structures on site		Yes	Not carried out in 2011
2	Please provide integrity testing frequency period		3 years	Will be done in 2012
	Does the site maintain a register of bunds, underground pipelines (including stormwater	er and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type		

Does this structure have Secondary containment?

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

SELECT

Material of construction:

SELECT

3 units and mobile bunds)

Structure ID

Type system

SELECT

Tabl	le 1: Summary details of bu	nd integrity test												
Bund/Containment structure ID	Туре	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 y
	SELECT	Specify Other type	Flodder containment	Actual capacity	Capacity required	SELECT	Other test type		SELECT	SELECT	explanation < 30 words	SELECT	ior recest	reporting ye
	SELECT					SELECT				SELECT		SELECT		
Capacity required should comp	ply with 25% or 110% containment ru	le as detailed in your licence	1	1	1		Commentary	1			1			
		e with licence requirements and	are all structures tested in line					1						
with BS8007/EPA Guida				bunding and storage guide	lines	SELECT								
	systems to remote contain					SELECT								
		ntegrity and available volume?				SELECT								
	bers have high level liquid	alarms? a maintenance and testing progra				SELECT		_						
i yes to Q7 are these ia	alisate systems included in	a maintenance and testing progra	anner			SELECT								
Pipeline/undergro	ound structure testing	1												
		egrity testing on underground stru	uctures e.g. ninelines or sump	s etc ? if ves please fill out ta	able 2 below listing all									
	s and pipelines on site					SELECT								
	y testing frequency period					SELECT								
	,							_						
Tab	ole 2: Summary details of u	nderground structures/pipeline in	itegrity test									_		
				Type of secondary containment				Integrity test failure						

Results of test

SELECT

Integrity reports maintained on site?

SELECT

Type integrity testing SELECT

SELECT

explanation <50 Corrective action Scheduled date Results of retest(if in current words taken for retest reporting year) SELECT

No

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

Complaints		
		Additional information
the current reporting year? If yes please complete		
eceived on site in table 1 below	No	

Have you received any environmental complaints in the current reporting year? If yes please complete summary details of complaints received on site in table 1 below

Table 1	Complaints summary						
			Brief description of				
			complaint (Free txt <20	Corrective action< 20			Further
Date	Category	Other type (please specify)	words)	words	Resolution status	Resolution date	information
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
Total complaints							
open at start of							
reporting year							
Total new							
complaints received							
during reporting							
year							
Total complaints		7					

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	Yes	

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

closed during reporting year Balance of complaints end of reporting year

Table 2 Incidents summary Activity in Other Incident category*please cause(please progress at time Pre Cause of incident Date of occurrence Incident nature Location of occurrence refer to guidance Corrective action<20 words actio Receptor specify) of incident Communication Occurrence Back-up Flare on, Reg 17 No. in year Main Flare going out Service/Repairs carried out ever Main Flare 1. Minor Power cuts/ Servic Normal activities EPA Plant or equipment issues Occasional Δir SELECT Total number of incidents current year 17 Total number of incidents previous year 63 % reduction/

increase 73% reduction

eventative ion <20 words	Resolution status	Resolution date	Liklihood of reoccurence
gular service			
ery quarter	Ongoing		Low
	SELECT		SELECT

Groundwater /Contaminated land summary report

	r	Comments
1 Are you required to carry out groundwater monitoring as part of your licence requirements?	yes	7 No. boreholes on site.
2 Are you required to carry out soil monitoring as part of your licence requirements?	no	
		For site huts and outside
³ Do you extract groundwater for use on site? If yes please specify use in comment section	yes	taps.
		Some groundwater wells
		have elevated levels of
4		Ammonia and presence of E.
Is there contaminated land and /or groundwater on site? If yes please answer q's 5-12	Possible	Coli and Total Coliforms.
5		
Is the contamination related to operations at the facility (either current and/or historic)	Possible	
6		Full permanent capping of
Have actions been taken to address contamination issues?If yes please summarise		landfill and leachate remova
remediation strategies proposed/undertaken for the site	yes	as required.
_		November 2012 for
⁷ Please specify the proposed time frame for the remediation strategy	SELECT	completion of capping.
8 Is there a licence condition to carry out/update ELRA for the site?	yes	
9 Has any type of risk assesment been carried out for the site?	yes	
10 Has a Conceptual Site Model been developed for the site?	no	
11 Have potential receptors been identified on and off site?	yes	
12 Is there evidence that contamination is migrating offsite?	no	

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	average	Upward trend in pollutant concentratic over last 5 years of monitoring data
					<.04	<.04					
Monthly	BH7	Ammonia (N)		Monthly			mg/l		complies	C	no
Monthly	BH7	тос		Monthly	<0.7		mg/l		complies	C	no
Monthly	BH7	Conductivity		Monthly	568		us/cm		complies	C	no
Monthly	BH7	E Coli		Monthly	11	<1	No/100mls		exceeds	C	no
					<.04	<.04					
Monthly	вн9	Ammonia (N)		Monthly			mg/l		complies	C	no
Monthly	BH9	TOC		Monthly	1.69		mg/l		complies	120	no
Monthly	BH9	Conductivity		Monthly	1080	940	mg/l		exceeds	-18	yes
Monthly	BH9	E Coli		Monthly	0	0	No/100mls		complies		no

.+ where average indicates arithmetic mean

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

Table 2: Downgradient Groundwater monitoring results

		1		-							
											Upward trend in yearly
										% change in	average pollutant
	Sample									average	concentration over last
Date of	location	Parameter/			Maximum	Average				concentration	5 years of monitoring
sampling	reference	Substance	Methodology	Monitoring frequency	Concentration	Concentration	unit	GTV's*	IGV	previous year +/-	data
Monthly	BH5	Ammonia (N)		Monthly	3.07	2.33	mg/l		exceeds	21	no

Monthly	BH5	ТОС	Monthly	2.09	1.6	mg/l	complies	38	no
Monthly	BH5	Conductivity	Monthly	850	778	us/cm	complies	0	no
Monthly	BH5	E Coli	Monthly	2	<1	No/100mls	exceeds	-50	no
Monthly	BH8	Ammonia (N)	Monthly	0.31	0.25	mg/l	exceeds	4	no
Monthly	BH8	тос	Monthly	<0.7	<0.7	mg/l	complies	53	no
Monthly	BH8	Conductivity	Monthly	593	522	us/cm	complies	-17	yes
Monthly	BH8	E Coli	Monthly	2	<1	No/100mls	exceeds	0	no

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

Groundwater Drinking water Surface regulations (private supply) water EQS <u>standards</u> <u>GTV's</u>

Drinking water (public Interim Guideline supply) standards

Values (IGV)

Table 3: Soil results

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

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

	Environm	ental Liability	/ Risk Assessment
			Commentary
1	Is it a requirement of your licence to complete an ELRA?	Yes	
			Ballydonagh is an engineered landfill with a sealed under liner. The landfill is closed and it is 75% permanently capped. The remainder will be capped by November 2012. Leachate is removed as required from the landfill and an extensive monitoring regime is in place in and around the landfill. A 1000 m3 flare is in continous operation to burn of the gas and operates at over 1000C while weekly gas balancing is carried out to ensure the maximum gas extraction from the
2	Has an initial ELRA been submitted to and approved by the Agency?	No	landfill.
3	Please enter the date of submission of the initial ELRA		
4	Date of most recent substantial ELRA update		
5	What financial instrument/s do you have in place to cover unknown liabilities?	SELECT	
6	Has this financial instrument/s been verified by the Agency?	SELECT	
7	What is the date of expiry of this financial instrument?		
8	Date of next required review of the ELRA?		

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

	Table 1	ELRA summary information								
	Click here to access EPA guidance on ELRA	Operational Risk Assessment Category	SELECT							
	Risk ID	Potential hazards	Environmental effect	Previous risk score	Mitigation m	easures to reduce ris Date of implementation of mitigation measures	:k Comment	ELR Revised Risk score for current reporting year		Does the cu financial pro (FP) cover th score?
		Bund failure resulting in spillage of hazardous chemical	Surface water /soil/groundwater				Relined all bunds >10years old			
e.g	Chemical storage	on site	contamination	e	Infrastructural improvements	31/05/2009	on site	3	€10,000	Yes
	Fuel storage			SELECT	SELECT			SELECT		SELECT
	Pipeline failure			SELECT	SELECT			SELECT		SELECT
	Process Plant failure			SELECT	SELECT			SELECT		SELECT
	Traffic incident and spill			SELECT	SELECT			SELECT		SELECT
	Fire			SELECT	SELECT			SELECT		SELECT
	Air emission incident			SELECT	SELECT			SELECT		SELECT
	Historical pollution			SELECT	SELECT			SELECT		SELECT
	Landfill			SELECT	SELECT			SELECT		SELECT
				SELECT	SELECT			SELECT		SELECT
	Total			SELECT	SELECT			SELECT		SELECT

	Closure Restoration Aftercare Manage	ement Plan	/ Restoration plan (CRAMP/RP)
1	Was a closure or restoration plan a requirement of the licence?	Yes	
2	Has a closure plan submission been approved by the Agency?	Yes	
3	What is the timescale for submission?		
			Westmeath Co. Council will draw from
			reserved internal capital resources to fund
			the capping and restoration works and the
4	What financial instrument do you have in place to cover known liabilities?		ongoing aftercare of the landfill
5	What is the date of expiry of this financial instrument?		
		-	
			The permanent capping and rectoration
6	Millert in the extension of investment of the second		The permanent capping and restoration
6	What is the status of implementation of the plan?		works will be completed by November 2012.

Table 2 CRAMP summary information (NON Landfill)

_		Table 2 CRAIMP summary information (NON Landini)							
						Change in Risk		Does the current	Value of current
						category since		financial provision	financial provision
	Date of submission of plan	Risk category	Closure plan in place	Clean closure	Restoration Aftercare Management Plan	previous year	Increase in risk category	cover the risk score?	for site
		SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	

e.g



	Environmental Management Program	me (EMP)/Continuous Improve	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 additiona information	Yes	The purpose of the EMS is to ensure the operation of the site is in accordance with regulatory requirements and best landfill practice and to implement a schedule of objectives and targets.
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	Since the landfill is closed the emphasis is on the management of the gas collection system, the operation of the flare, the collection of leachate and the proper operation of the civic amenity site.
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes	The main objectives for 2012 are : 1) To complete the permanen capping and restoration of the landfill. 2) Install more gas extraction wells in landfill. 3) Reduce leachate generation. 4) Extract and flare maximum amount of gas from landfill.
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	Local residents have their well water monitored by the Council and they receive a report on the quality of the water every quarter.

Environmental Management Programme	(EMP) report				
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
			Engage consultant Fehilly		
	Advance the design for the		Timoney Company to specify		
	permanent capping of the		and design works required to		
	uncapped (25%) area of the		meet objective and comply		No change untill work is
Reduction of emissions to Air	landfill	70	with licence requirements.	Section Head	carried out in 2012
			Offaly Co. Council who are		
			overseeing the project		
			engaged Tobin Consulting		
			Engineers to carry out a		
			feasibility study. The report		
			would include the use of the		
	Examine the utisation of		Gas Sim model to predict the		
	landfill gas as a source of		gas volumes that the landfill		
Energy Efficiency/Utility conservation	energy	50	would generate.	Section Head	No change
				SELECT	SELECT

Noise Monitoring Report Summary

	-	ce requirement for se summary below	or the AER perioc w	!?				Yes]
2 Was noise mo	onitoring carried	out using the EP	A Guidance note uded in the guida	-	-	the	<u>Draft Noise</u> Guidance	Yes	
	e have a noise re	-						No	
4 When was the	When was the noise reduction plan last updated? Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise								
Have there b	een changes rel	evant to site nois	se emissions (e.g. survey?	plant or ope	rational cha	nges) since t	he last noise	Yes	
Table 1: Noise	e monitoring su	mmary	1		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?
01/12/2011		4 at boundary and 6 at nearby residental properities						SELECT	SELECT
	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?

SELECT

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

Any additional comments? (less than 200 words)

Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is <u>site_</u> compliant with noise limits (day/evening/night)?
No site activities were audible from the the site boundary or at the residental properties.	Yes

Resource usage/ Energy Efficiency

		Additional information
	None carried out in	
. When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below	recent years	
SEAI - Large Industry		
Is the site a member of any accredited programmes for reducing energy usage/water conservation such <u>Energy Network</u>		
as the SEAI programme linked to the right? If yes please list them in additional information (LIEN)	yes	EnergyMap
Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in		
additional information	SELECT	

Table 1 Energy usage	e on site			
Energy Use	Previous year kWh	Current year kWh	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total				
Electricity	151463	122550		
Fossil Fuels:				
Heavy Fuel Oil				
Light Fuel Oil				
Natural gas				
Coal/Solid fuel				
Renewable energy generated on site				

1

2

3

* 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 2 W	/ater 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	No figures - low	No figures - low		
Surface water	() C)	
Public supply	() C)	
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 3: Energy Audit finding recommendations]				
Date of audit		Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Status an comment
			SELECT				
			SELECT				
			SELECT				



SECTION A-PRTR WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES	PRTR facility logon	dropdown list click to see options

1	Were any wastes accept	ACCEPTED ONTO SITE-TO B red onto your site for recovery or dis ured through PRTR reporting) Is in table 1 below				y ?; (waste generated within your	No	Additional Informatio	n			
3	Was was	ejected consignments of waste in th ste accepted onto your site that was f waste accepted onto y	generated outside the Republic	of Ireland? If yes please sta	te the quantity in tonnes		No No site, as thes	e will have bee	n reported in you	r PRTR workbook)		
	Licenced annual tonnage limit for your site (total tonnes/annum)	EWC code	Source of waste accepted		Quantity of waste accepted in current reporting year (tonnes)	Quantity of waste accepted in previous reporting year (tonnes)	Reduction/Incre ase over previous year +/ - %		Packaging Content (%)- only applies if the waste has a packaging component	site and the description of this	Quantity of waste remaining on site at the end of reporting year (tonnes)	Comments -
E.g.		07 05 04*	07- WASTES FROM ORGANIC CHEMICAL PROCESSES 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY	other organic solvents, washing liquids and mother liquors biodegradable kitchen	22	12	83%		0%	SELECT		Brought onto site from sister IPPC plant
E.g.		20 01 08	COLLECTED FRACTIONS SELECT	and canteen waste	10	20	-50% #DIV/0!			SELECT SELECT		

SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste trans ies 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

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

SELECT

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?

SECTION D-TO BE COMPLETED BY LANDFILL SI Table 2 Waste type and tonnage-landfill only ES 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
e.g.	Household (residual)	30,000	22,000		
	Industrial non	500	60		
e.g.	hazardous solids	500	60	120,000	
	None				Landfill closed

Table 3 General information-Landfill only

Area ID	Date landfilling commenced	menced Date landfilling ceased Currently landf	Currently landfilling	illing Private or Public Operated		Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?		Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area	Comments on liner type	
										SELECT UNIT	SELECT UNIT	SELECT UNIT		I
Whole Landfill	1991	201	0 No	Public	Non Hazardous		No	No	No	5.9 hectares	5.9 hectares		Engineered D landfill	

Yes No

#DIV/0!

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

Was meterological								
monitoring in compliance						Was topography	Has the statement	
with Landfill Directive	Was leachate monitored in	Was Landfill Gas monitored in	Was SW monitored in			of the site	under S53(A)(5) of	
(LD) standard in	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	WMA been submitted	
reporting year +	reporting year	reporting year	standard in reporting year	been established	the Agency (ELVs)	reporting year	in reporting year	Comments
								Monitoring is carried for
								all parameters as per the
Yes	Yes	Yes	Yes	Yes	Yes	No		licence
.+ please refer to Landfill	Manual linked above for relevant l	Landfill Directive monitoring stan	dards					

e Landfill Gas Survey submitted in d

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
						Permanent
						capping works
						to commence in
						June 2012 for
					An impermeable geocomposite layer,	temporary
0	1.3 ha	4.6 ha	0	(800mm subsoil and 200mm top soil.	capped area.

Please ensure th

 u]1.4 ha
 [4.6 ha

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

 9 Is leachate from your site treated in a Waste Water Treatment Plant?
 10 Is leachate released to surface water? If yes please complete leachate mass load information below

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

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
ſ					Gas flared off using
	2,229,000			No	1000 m3/hr flare

Yes	
Yes SELECT	
Yes	
Yes	
Yes Yes Yes	
Yes	

Copo Environmental Protection Agency | PRTR# : W0028 | Facility Name : Ballydonagh Landfill | Filename : W0028_2011(1).xls | Return Year : 2011 |

17/04/2012 11:50

Guidance to completing the PRTR workbook

REFERENCE YEAR 2011 1. FACILITY IDENTIFICATION Parent Company Name [Westmeath County Council Facility Name Ballydonagh Landfill PRTR Identification Number [W0028 Licence Number [W0028-03

Waste or IPPC Classes of Activity No. class_name

No.	class_name
	Specially engineered landfill, including placement into lined discrete
	cells which are capped and isolated from one another and the
3.5	environment.
3.1	Deposit on, in or under land (including landfill).
	Storage prior to submission to any activity referred to in a preceding
	paragraph of this Schedule, other than temporary storage, pending
3.13	collection, on the premises where the waste concerned is produced.
	Surface impoundment, including placement of liquid or sludge
3.4	discards into pits, ponds or lagoons.
	Use of waste obtained from any activity referred to in a preceding
4.11	paragraph of this Schedule.
	Storage of waste intended for submission to any activity referred to
	in a preceding paragraph of this Schedule, other than temporary
	storage, pending collection, on the premises where such waste is
4.13	produced.
	Recycling or reclamation of organic substances which are not used
	as solvents (including composting and other biological
	transformation processes).
4.3	Recycling or reclamation of metals and metal compounds.
	Recycling or reclamation of other inorganic materials.
	Ballydonagh
	Dublin Road
Address 3	
Address 4	Co. Westmeath
	Westmeath
Country	
Coordinates of Location	
River Basin District	
NACE Code	3821 Treatment and disposal of non-hazardous waste
AER Returns Contact Name	
AER Returns Contact Email Address	
AER Returns Contact Email Address	
AER Returns Contact Telephone Number	
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	
Production Volume Units	
Number of Installations	
Number of Operating Hours in Year	
Number of Employees	
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
5(d)	Landfills
5(c)	Installations for the disposal of non-hazardous waste
5(d)	Landfills
50.1	General
3. SOLVENTS REGULATIONS (S.I. No. 543 of 200	2)
Is it applicable?	No
Have you been granted an exemption ?	
If applicable which activity class applies (as per	
Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being	
used ?	

4.1 RELEASES TO AIR

Link to previous years emissions data

9

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

	RELEASES TO AIR		Please enter all guantities in this section in KGs								
	POLLUTANT		ME	THOD		QUANTITY					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year			
01	Methane (CH4)	C	PER	Calculated using Gas sim	0.0	8768.	0.0	8768.0			
03	Carbon dioxide (CO2)	С	PER	Calculated using Gas sim	0.0	108499.	0.0	108499.0			

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

SECTION B : REMAINING PRTR POLLUTANTS

	RELEASES TO AIR				Please enter all quantities in this section in KGs					
	POLLUTANT			METHOD	QUANTITY					
			Method Used							
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A	(Accidental) KG/Year	F (Fugitive) KG/Year	
					0.0	0	0.0	0.0	0.0	

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

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

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

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

Additional Data Requested from Landfill operators												
For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) land or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) mission to the environment under T(total) KG/yr for Section & Sector specific PRTR pollutants above. Please complete the table below:												
Landfill:	Ballydonagh Landfill											
Please enter summary data on the quantities of methane flared and / or utilised		hod Used										
-	T /Tatal) ka Maaa	MICIE	Mathead Code		Facility Total Capacity m3							
Total estimated methane generation (as per site	T (Total) kg/Year	M/C/E	Method Code	Designation or Description	per hour							
nodel)	1490000.0	с	PER	Calculated using Gas sim	N/A							
Methane flared	1481232.0	С	PER	Calculated using average flow	1000.0	(Total Flaring Capacity)						
Methane utilised in engine/s					0.0	(Total Utilising Capacity)						
Net methane emission (as reported in Section A above)		c	PER	Methane generated minus m	N/A							

_	Please enter all quantities on this sheet in Tonnes 3													
				Quantity (Tonnes per Year)		Waste		Method Used		Haz Waste : Name and Licence/Permit No of Next Destination Facility <u>Nom</u> <u>Haz Waste</u> : Name and Licence/Permit No of Recover/Disposer	<u>Haz Waste</u> : Address of Next Destination Facility <u>Non Haz Waste</u> : Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)	
		European Waste Code	Llanardaua		Description of Waste	Treatment		Method Used	Location of Treatment					
L	Transfer Destination	Code	Hazardous		Description of waste	Operation	WI/G/E	welling Osed	Treatment		Golden Island ,Athlone			
					landfill leachate other than those mentioned					Athlone Waste Water	Westmeath,Co			
١	Within the Country	19 07 03	No	10242.0	in 19 07 02	D8	М	Weighed	Offsite in Ireland	Treatment Plant, D0007-01	Westmeath, Ireland			
											Derryclure, Tullamore, Offaly,			
· ·	Within the Country	20 03 01	No	1951.0	mixed municipal waste	D1	м	Weighed	Offsite in Ireland	Derryclure Landfill,W0029-02				
										Oxigen Environmental	Robinhood Road .Clondalkin.Dublin.Co			
,	Within the Country	20.03.01	No	610.0	mixed municipal waste	D1	м	Weighed	Offsite in Ireland		Dublin, Ireland			
		20 00 01		01010				Troighou .			Daingean,Offaly,Co			
١	Within the Country	20 02 01	No	5.0	biodegradable waste	R3	М	Weighed	Offsite in Ireland	02	Offaly, Ireland, Ireland			
											Glassco,Naas,Kildare,Co			
1	Within the Country	20 01 02	No	5.0	glass	R5	М	Weighed	Offsite in Ireland	Glassco,WP247/2006	Kildare, Ireland			
	Within the Country	20.01.40	No	10.0	metals	R4	м	Weighed	Offsite in Ireland	Guessford Ltd,OY-10-0183-	Daingean,Offaly,Co Offaly,Ireland,Ireland			
	Within the Obunity	20 01 40	NO	13.0	metais	114	IVI	Weighed	Onsite in relatio	02	504A .Greenogue Business			
										Textile Recycling Ltd,WCP-	Park,Greenogue,Dublin			
١	Within the Country	20 01 10	No	1.0	clothes	R3	М	Weighed	Offsite in Ireland	DC 01	24,Ireland			
											Daingean,Offaly,Co			
	Within the Country	17 02 01	No	43.0	wood	R3	М	Weighed	Offsite in Ireland	02	Offaly, Ireland, Ireland			

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE | PRTR#: W0028 | Facility Name : Ballydonagh Landfill | Filename : W0028_2011(1).x/s | Return Year : 2011 | Please enter all quantities on this sheet in Tonnes

* Select a row by double-clicking the Description of Waste then click the delete button

Link to previous years waste data Link to previous years waste summary data & percentage change 17/04/2012 11:50