Facility Information Summary

Licence Register Number	W0033-01
Name of site	Drogheda Landfill Site
Site Location	Collon Road, Mell, Drogheda, Co Louth
NACE Code	3821
Class of Activity	2,3,4,10,11,13
RBME risk category	A2
National Grid Reference (6E, 6 N)	

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;

Drogheda landfill site is closed. The site ceased accepting waste for disposal since the waste licence was granted on 30th December 1999, however wastes where brought on site for restoration and capping following this date. The following restoration works where undertaken at the site during 2005-2007:

Installation of 55 No. gas extraction wells
Installation and commissioning of an active gas extraction flare and methane stripper
Installation of capping layers consisting of Gas Drainage Layer, LLDPE capping and Surface Water Drainage Layer (A total area of approximately 101,650m2).
Reinforcement of the capping system using georgic on slopes greater than 1 in 2.5
Surface Water Drainage System
Construction of a 1.0m high safety bund along cliff edges on the site to improve safety.
Subsoil and topsoil have been placed above the capping layer to a depth of 850mm and 150mm respectively across the site.

A Civic Waste Facily(CWF) is location on site, 2946.70 tonnes of waste were accepted for recycling at the CWF in 2011. No

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.

P. Rogers	18/4/12
Signature Group/Facility manager (or nominated, suitably qualified and experienced deputy)	Date

AER summary template-AIR emissions

			Additional information
1	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	Yes	There are no emission limits for flare in licence. Compared with typical emission limit values.

Table 1 Fugitive emissions

Parameter /Substance	Annual fugitive emission (kg/annum)	Quantificaton method M/C/E
SELECT		SELECT
Methane (CH4)	180201	C

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 Table 2 below			No	
3	Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist?	Basic air monitoring checklist	AGN2	Yes	Not using the basic air monitoring checklist. Monitoring was undertaken prior to issue of basic air monitoring checklist

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

Emission reference no:	Parameter/ Substance	Date 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)	% change in mass load from previous year +/-	Comments
Flare Stack	Nitrogen oxides (NOx/NO2)	19/06/2011	None	100 % of values < ELV	51.25	mg/Nm3	yes	OTH	175.2	NA	There are no emission limits for flare in licence.
	Carbon monoxide (CO)	19/06/2011	None	100 % of values < ELV	1.875	mg/Nm3	yes	OTH	8.76	NA	There are no emission limits for flare in licence.
	Total Organic Carbon (as C)	19/06/2011	None	100 % of values < ELV	3.02	mg/Nm3	yes	OTH	8.76	NA	There are no emission limits for flare in licence.
	Chlorine and inorganic compounds (as HCl)	19/06/2011	None	100 % of values < ELV	1.98	mg/Nm3	yes	OTH	8.76	NA	There are no emission limits for flare in licence.
	Fluorine and inorganic compounds (as HF)	19/06/2011	None	100 % of values < ELV	1.8	mg/Nm3	yes	OTH	8.76	NA	There are no emission limits for flare in licence.
	Sulphur oxides (SOx/SO2)	19/06/2011	None	100 % of values < ELV	162.45	mg/Nm3		OTH			There are no emission limits for flare in licence.
	Carbon dioxide (CO2)	19/06/2011	None	100 % of values < ELV					420480		There are no emission limits for flare in licence.
	volumetric flow	19/06/2011	None	100 % of values < ELV		m3	yes	OTH			There are no emission limits for flare in licence.

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

Continuous Monitoring

4	Does your site carry out continuous air emissions monitoring?	Yes	Carbon Monoxide at Flare
	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	No	
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	Yes	Service Agreement in place
7	Did your site experience any abatement system bypasses? If yes please detail them in table 4 below	No	

Table 3: Summary of average emissions -continuous monitoring

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	Comments
Flare Stack	Carbon monoxide (CO)	none in licence. Normally <50mg/Nm3	Annual	not specified in licence	ppm	3.6 kg	3.4 ppm	None		No downtime on monitoring

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

Table 4: Abatement system bypass reporting table

Bypass protocol

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

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

SELECT	

Table 5: 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 therof	Compliance
					SELECT
					SELECT

Table 6: Solvent 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)
							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 only need to complete table 1 and /table 2 below for ambient monitoring and visual inspections	Yes	
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	SELECT	

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
	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
			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			Yes	ther sampling of condensate within the gas extraction syste
4	Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box	External /Internal Lab Quality checklist	Assessment of results checklist	No	he lab quality monitoring checklist. Monitoring was undertaken prior to issue of basic air monitori

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 (kg)	% change in mass load from previous year +/-	Comments
S1	Vastewater/Sewe	pH	discrete		Monthly	6 to 9	All values < ELV	2.5	pH units	no (if no please	pH Meter (Electrode)	I.S. (Irish	ISO 5667-3:2003			Monitoring at S1 indicated a reduction of pH
		Sulphate	discrete		Monthly	322	All values < ELV	840	mg/L	no (if no please	Ion Chromatography	I.S. (Irish	ISO 5667-3:2003	10.09	NA	Monitoring at S1 indicated a reduction of pH
		BOD	discrete		Monthly	1770	All values < ELV	2.2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	I.S. (Irish	ISO 5667-3:2003	0.03	NA	
		COD	discrete		Monthly	8000	All values < ELV	41.1	mg/L	yes	Spectrophotometry (Colorimetry)	I.S. (Irish	ISO 5667-3:2003	0.49	NA	
		Ammonia (as N)	discrete		Monthly	2040	All values < ELV	47.2	mg/L	yes	quakem Auto-analyser using phenate metho	I.S. (Irish	ISO 5667-3:2003	0.57	NA	
		Suspended Solids	discrete		Monthly	1500	All values < ELV	46.7	mg/L	yes	Gravimetric analysis	I.S. (Irish	ISO 5667-3:2003	0.56	NA	
		volumetric flow				6500m3	No flow value shall exceed the specific limit.	12m3		yes	Tankered to WWTW					Condensate from the landfill gas extration system. Monitoring at S1 indicated a reduction of pH and increase in sulphate

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

			Additional Information
5	Does your site carry out continuous emissions to water/sewer monitoring?	No	

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**	SELECT	
7	Do you have a proactive service contract for each piece of continuous monitoring equipment on site?	SELECT	
8	Did abatement system bypass occur during the reporting year? **If yes please complete table 5 below**	SELECT	

Table 4: 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)	% compliance current reporting year	Comments
	SELECT	SELECT		SELECT	SELECT	SELECT					
	SELECT	SELECT		SELECT	SELECT	SELECT					

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

Table 5: Abatement system bypass reporting table

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

*Measures taken or proposed to reduce or limit bypass frequency

Bund/pipe testing report summary ALL IPPC/WASTE licensed facilities | **Intensive agriculture facilities please use alternative template**

Bund testing dropdown menu click to see options

			Additional information
1	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 containment structures on site	Yes	Landfill Site is closed. CWF in operation. There are no bunds on site.
2	Please provide integrity testing frequency period	SELECT	
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)	SELECT	

Table 1: Summary details of bund integrity test

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

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

			Commentary
4	Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance?	SELECT	
5	Are channels/transfer systems to remote containment systems tested?	SELECT	
6	Are channels/transfer systems compliant in both integrity and available volume?	SELECT	
7	Do all sumps and chambers have high level liquid alarms?	SELECT	
8	If yes to Q7 are these failsafe systems included in a maintenance and testing programme?	SELECT	

bunding and storage guidelines

Pipeline/underground structure testing

1	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	SELECT	
2	Please provide integrity testing frequency period	SELECT	

Table 2: Summary details of underground structures/pipeline 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

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

Complaints

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	No	Additional information

Table 1 Complaints summary

Date	Category	Other type (please specify)	Brief description of complaint (Free txt <20 words)	Corrective action< 20 words	Resolution status	Resolution date	Further 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 closed during reporting year	
Balance of complaints end of reporting year	

Incidents

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

*For information on how to report and what constitutes an incident	What is an incident

Table 2 Incidents summary

Date of occurrence	Incident nature	Location of occurrence	Incident category*please refer to guidance	Receptor	Cause of incident	Other cause(please specify)	Activity in progress at time of incident	Communication	Occurrence	Corrective action<20 words	Preventative action <20 words	Resolution status	Resolution date	Liklihood of 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	
% reduction/ increase	

Groundwater /Contaminated land summary report

			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	Is there contaminated land and /or groundwater on site? If yes please answer q's 5-12	yes	
5	Is the contamination related to operations at the facility (either current and/or historic)	yes	approximately 32 hectares in extent and
6	Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site	yes	The following restoration works where
7	Please specify the proposed time frame for the remediation strategy	yes	Restoration works where undertaken at the site during 2005-2007.
8	Is there a licence condition to carry out/update ELRA for the site?	no	
9	Has any type of risk assesment been carried out for the site?	yes	Assessment where undertaken as part of the waste licence application in 1998/1999
10	Has a Conceptual Site Model been developed for the site?	yes	as per original application
11	Have potential receptors been identified on and off site?	no	
12	Is there evidence that contamination is migrating offsite?	yes	The site is unlined . Groundwater

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	% change in average concentration previous year +/-	Upward trend in pollutant concentration over last 5 years of monitoring data
2011											SELECT
	BH1A	Ammonia	Aquakem Auto analyser using	Monthly	0.04	0.04	mg/l	175	0.15	25	data not available
		Barium	ICP-MS	Monthly	52.7	30	ug/l		0.1	-12	data not available
		Cadmium	ICP-MS	Monthly	0.5	0.25	ug/l	3.75	0.005	-33	data not available
		Chloride	analyser using	Monthly	51	31.08	mg/l		30	14	data not available
		Chromium	ICP-MS	Monthly	2.2	1.5	ug/l	37.5	0.03	0	data not available
											data not available
		Conductivity	Meter	Monthly	2190	889.2	µS/cm		1000	-25	data not available
		Iron	ICP-MS	Monthly	77.8	48.98	ug/l	18.75	0.02	-29	data not available
		Lead	ICP-MS	Monthly	2.4	1.83	ug/l		0.01	-31	data not available
		Manganese	ICP-MS	Monthly	65.3	23.81	ug/l	15	0.05	-33	data not available
		Nickel	ICP-MS	Monthly	9.7	5.03	ug/l		0.02	-63	data not available

		pH	pH Meter	Monthly	7.4	7.15			≥ 6.5 and ≤ 9.5	1	data not available
		Potassium	ICP-MS	Monthly	8.56	6.09	mg/l		5	5	data not available
		Sodium	ICP-MS	Monthly	19.19	15.87	mg/l		150	2	data not available
		TON	analyser using	Monthly	4.7	3.35	mg/l			-3	data not available
		Zinc	ICP-MS	Monthly	69	25.95	ug/l		0.1	8	data not available

.+ 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	% change in average concentration previous year +/-	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
2011	BH10A	Ammonia	analyser using	Monthly	0.09	0.1	mg/l	175	0.15	54	data not available
		Barium	ICP-MS	Monthly	62.1	50.9	ug/l		0.1	-25	data not available
		Cadmium	ICP-MS	Monthly	<0.1	<0.1	ug/l	3.75	0.005	0	data not available
		Chloride	analyser using	Monthly	87	78.3	mg/l		30	12	data not available
		Chromium	ICP-MS	Monthly	1.9	<0.5	ug/l	37.5	0.03	0	data not available
		Conductivity	Conductivity Meter	Monthly	640	573.1	µS/cm		1000	-3	data not available
		Iron	ICP-MS	Monthly	134.9	58.7	ug/l		0.02	-281	data not available
		Lead	ICP-MS	Monthly	0.8	0.8	ug/l	18.75	0.01	-288	data not available
		Manganese	ICP-MS	Monthly	277	41.8	ug/l		0.05	142	data not available
		Nickel	ICP-MS	Monthly	6.1	4.3	ug/l	15	0.02	-33	data not available
		pH	pH Meter	Monthly	8.2	7.8			≥ 6.5 and ≤ 9.5		data not available
		Potassium	ICP-MS	Monthly	11.25	9.7	mg/l		5	-8	data not available
		Sodium	ICP-MS	Monthly	54.91	47.2	mg/l		150	-10	data not available
		TON	analyser using	Monthly	0.42	0.2	mg/l			-54	data not available
		Zinc	ICP-MS	Monthly	25.2	6.4	ug/l		0.1	-47	data not available
	BH11A	Ammonia	analyser using	Monthly	<0.03	<0.03	mg/l	175	0.15		data not available
		Barium	ICP-MS	Monthly	37.5	31	ug/l		0.1		data not available
		Cadmium	ICP-MS	Monthly	<0.1	<0.1	ug/l	3.75	0.005		data not available
		Chloride	analyser using ferricyanide	Monthly	53	43.5	mg/l		30	2	data not available
		Chromium	ICP-MS	Monthly	3.3	2.6	ug/l	37.5	0.03	-43	data not available
		Conductivity	Conductivity Meter	Monthly	482	1008.3	µS/cm		1000	-16	data not available
		Iron	ICP-MS	Monthly	209	80.8	ug/l		0.02	-46	data not available
		Lead	ICP-MS	Monthly	1	1.9	ug/l	18.75	0.01	-133	data not available
		Manganese	ICP-MS	Monthly	22.3	16.7	ug/l		0.05	-137	data not available
		Nickel	ICP-MS	Monthly	2.3	1.3	ug/l	15	0.02	3	data not available
		pH	pH Meter	Monthly	7.7	7.5			≥ 6.5 and ≤ 9.5	1	data not available
		Potassium	ICP-MS	Monthly	31	16.4	mg/l		5	28	data not available
		Sodium	ICP-MS	Monthly	46.4	32.2	mg/l		150	6	data not available
		TON	analyser using colorimetric	Monthly	2.9	1.7	mg/l			22	data not available
		Zinc	ICP-MS	Monthly	9.6	6	ug/l		0.1	2	data not available
							SELECT				SELECT

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

Table 3: Soil results

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

Data will be complied for upward trend in yearly average pollutant concentration over 5 years of monitoring data for 2012 reporting period for groundwater. Barium concentrations are above the IGV of 0.1 mg/l in all downgradient boreholes. Chloride concentrations are above the IGV of 30mg/l in all downgradient boreholes. The down-gradient results show Iron concentrations above the IGV of 0.2mg/l and the DWR of 200µg/l at BH11A. Manganese concentrations are also above the IGV of 0.05mg/l and DWR of 50µg/l at BH10A. Potassium concentrations are above the IGV of 5mg/l in BH10A and BH11A.

Environmental Liability Risk Assessment

			Commentary
1	Is it a requirement of your licence to complete an ELRA?	No	Landfill Site is closed. CWF in operation
2	Has an initial ELRA been submitted to and approved by the Agency?	SELECT	
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

				Mitigation measures to reduce risk			ELRA		
Risk ID	Potential hazards	Environmental effect	Previous risk score	Action	Date of implementation of mitigation measures	Comment	Revised Risk score for current reporting year	ELRA costing	Does the current financial provision (FP) cover the risk score?
e.g Chemical storage	Bund failure resulting in spillage of hazardous chemicals on site	Surface water /soil/groundwater contamination	6	Infrastructural improvements	31/05/2009	Relined all bunds >10years old on site	3	€10,000	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			SELECT	SELECT			SELECT		SELECT
SELECT			SELECT	SELECT			SELECT		SELECT
SELECT			SELECT	SELECT			SELECT		SELECT
Total			SELECT	SELECT			SELECT		SELECT

Closure Restoration Aftercare Management Plan/ Restoration plan (CRAMP/RP)

1	Was a closure or restoration plan a requirement of the licence?	SELECT	
2	Has a closure plan submission been approved by the Agency?	SELECT	
3	What is the timescale for submission?		
4	What financial instrument do you have in place to cover known liabilities?	SELECT	
5	What is the date of expiry of this financial instrument?		
6	What is the status of implementation of the plan?		

Table 2 CRAMP summary information (NON Landfill)

Date of submission of plan	Risk category	Closure plan in place	Clean closure	Restoration Aftercare Management Plan	Change in Risk category since previous year	Increase in risk category	Does the current financial provision cover the risk score?	Value of current financial provision for site
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	

Resource usage/ Energy Efficiency

			Additional information
1	When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below		No energy audit has been undertaken for
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)	no
3	Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information	SELECT	N/A

Table 1 Energy usage on site

Energy Use	Previous year kWh	Current year kWh	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total				
Electricity	2,850	3650	22	CWF Facility Only
Fossil Fuels:				
Heavy Fuel Oil				
Light Fuel Oil				
Natural gas				
Coal/Solid fuel				
Renewable energy generated on site				

* 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 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	300	350	14	CWF Facility Only
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	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
			SELECT					
			SELECT					
			SELECT					

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

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

			Additional information
1	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 PRTR reporting)	Yes	EWC - grade & segregate waste from municipal sources and
	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	Yes	
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	SELECT	

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)

	Licenced annual tonnage limit for your site (total tonnes/annum)	EWC code (European Waste Catalogue EWC codes)	Source of waste accepted	Description of waste accepted **Please enter an accurate and detailed description - which** (European Waste Catalogue EWC codes)	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 -
E.g.		*07 05 04**	*07- WASTES FROM ORGANIC CHEMICAL PROCESSES*	*other organic solvents, washing liquids and mother liquors*	*22*	*12*	83%		0%	*SELECT*		*Brought onto site from sister IPPC plant*
E.g.		*20 01 08*	*20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS*	*biodegradable kitchen and canteen waste*	*10*	*20*	-50%		0%	*SELECT*		
		20 02 01	*20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS*	*Organic waste garden*	*1475.66*	*1845.35*	-20%	*CA site. Volumes dependent on public usage.*		*R3-Recycling/reclamation or organic substances which are not used as solvents(including composting oranother biological transformation processes)which includes gasification and pyrolisis*		
		15 01 07	*20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS*	*glass non-packaging*	*161.74*	*166.92*		*CA site. Volumes dependent on public usage.*		*R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)*		
		15 01 04	*20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS*	*other metals (non-packaging)*	*146.3*	*121.5*		*CA site. Volumes dependent on public usage.*		*R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)*		
		20 01 38	*20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS*	*wood non-packaging*	*195*			*CA site. Volumes dependent on public usage.*		*R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)*		
		15 01 03	*15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED*	*wood packaging*	*368*	*706*		*CA site. Volumes dependent on public usage.*		*R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)*		
		20 01 10	*20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS*	*Clothes*	*6.25*	*18.46*		*CA site. Volumes dependent on public usage.*		*R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)*		
		16 06 01	*16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST*	*Lead Batteries*	*8*	*17.06*		*CA site. Volumes dependent on public usage.*		*R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)*		
		16 06 04	*16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST*	*Alkaline batteries*	*3*			*CA site. Volumes dependent on public usage.*		*R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)*		
		15 01 02	*15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED*	*Plastic packaging*	*198.44*	*183.96*		*CA site. Volumes dependent on public usage.*		*R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)*		
		15 01 01	*15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED*	*Paper and cardboard packaging*	*332*	*433.58*		*CA site. Volumes dependent on public usage.*		*R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)*		
		20 03 01	*20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS*	*mixed municipal waste*	*450*	*52*		*CA site. Contamination. Volumes dependent on p*		*D5- Specially engineered landfill*		
		20 01 01	*20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND*	*Paper and cardboard*	*130*		#DIV/0!	*CA site. Volumes dependent on public usage.*		*R13 Storage of waste pending any of the operations numbered R1 t R12 (excluding temporary storage)*		

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	
		SELECT	
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?	No	CA Site only. 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
e.g.	Household (residual)	30,000	22,000		
e.g.	Industrial non hazardous solids	500	60	120,000	

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

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

Was monitoring at monitoring in compliance with Landfill Directive (LD) standard in reporting year *	Was leachate monitored in compliance with LD standard in reporting year	Was Landfill Gas monitored in compliance with LD standard in reporting year	Was SW monitored in compliance with LD standard in reporting year	Have GW trigger levels been established	Were emission limit values agreed with the Agency (ELVs)	Was topography of the site surveyed in reporting year	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments
Landfill Site is closed.	Landfill Site is closed. Site is mon	Landfill Site is closed. Leachate	Landfill Site is closed. Sit	No	No	No	No	Site is monitored in

* 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 in date under licence	What materials are used in the cap	Comments
	Approximately 3,000m2	A total area of approximately 101,650m2.		investigations where undertaken in 2007 in an area north and north east of the licenced site boundary with regards to the disposal of waste outside of the licensed boundary. Drogheda Boundary Council (DBC) proposes to include this area within the waste licence boundary through a technical	Capping layers consisting of Gas Drainage Layer, LLDPE capping and Surface Water Drainage Layer. Reinforcement of the capping system using geogric on slopes greater than 1 in 2.5	

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

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
1212079	NA		No	Landfill Site is closed and was rstored in 2007. Surface emission monitoring not required by licence

Environmental Management Programme (EMP)/Continuous Improvement 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	ite is closed. CWF in operation only. EMS and EMP to be update
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	ite is closed. CWF in operation only. EMS and EMP to be update
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes	te is closed. CWF in operation only. EMS and EMP to be updated
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	ite is closed. CWF in operation only. EMS and EMP to be update

Environmental Management Programme (EMP) report

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