Facility Information Summary

Licence Register Number Name of site Site Location NACE Code Class of Activity RBME risk category National Grid Reference (6E, 6 N) W0034-02 Dundalk Landfill Site & Civic Waste Facility Newry Road, Dundalk, County Louth 3821 Third Scheldule(11,12,13), Fourth Scheldule(2,3,4,10,11,13) N/A

Dundalk Landfill Site has been in operation since 1980. In 2000 Dundalk Town Council submitted an application to the Environmental Protection Agency (EPA) for the continued operation of the landfill site, as required by the Waste Management (Licensing) Regulations 1997. The landfill site ceased to accept waste in October 2002. The landfill site was restored in 2006. Works include installation of capping layer, provision of storm water drainage, leachate collection trench, provision of gas collection system, provision of gas flare, grading of site and the provision of access road. Gas abstraction system provided on site includes for a Gas collection layer and 47 No boreholes laid out on a grid system over the main body of the site. The boreholes are connected via 63mm. diameter pipework to a 250mm diameter main gas collection pipe which transfers the gas collected, under suction, provided by compressor, and to the 500 m3 enclosed Flare Unit. There is also a CWF and MRF located on site. The waste intake at the CWF and MRF is limited to 20,000 tonnes per annum of municipal waste and construction & demolition waste. The licence also allows composting of biodegradable waste and green waste to 4,000 tonnes per annum. There where no infrastructural changes during the reporting year.

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;

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.

Damien Holmes	19/06/2012
Signature Group/Facility manager	Date
(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

Table 1 Fugitive emissions

Parameter /Substance	Annual fugitive emission (kg/annum)	Quantificaton method M/C/E
Methane (CH4)	381896	с

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

-		Basic air			
3	Was all monitoring carried out in accordance with EPA guidance note AG2 and using the	monitoring			Not using
	basic air monitoring checklist?	<u>checklist</u>	AGN2	Yes	underta

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

				•							
										% change in	
										mass load	
			ELV in licence							from	
Emission		Date of	or any revision			Unit of	Compliant with		Annual mass	previous	
reference no:	Parameter/ Substance	Monitoring	therof	Licence Compliance criteria	Measured value	measurement	licence limit	Method of analysis	load (kg)	year +/-	Comments
					34.85						Emmission iim
				no 30 minute mean value shall exceed the							for NOx only.
Flare Stack	Nitrogen oxides (NOx/NO2)	13/04/2012	150	emission limit value		mg/Nm3	yes	OTH	148.92	NA	Analytical
				no 30 minute mean value shall exceed the	0						
	Carbon monovide (CO)		None	emission limit value		mg/Nm3	VAS	ОТН		NA	
			None		4 27	/ Ing/ Mino	yes				
				no 30 minute mean value shall exceed the							
	Sulphur oxides (SOx/SO2)		None	emission limit value		mg/Nm3	yes	отн	17.52	NA	
					NM						
				no 30 minute mean value shall exceed the							
	Carbon dioxide (CO2)		None	emission limit value		mg/Nm3	yes	OTH		NA	
					490						
	volumetric flow		Nono			Nm2/hour	1005	отн		NA	
	Volumetric now		NUTIE			NIII5/IIUUI	yes			INA	
Biofilter air monito	pring										
				exceed those ELV's as set out in	22	2					
Piofiltor 1	Ammonia (NH2)	06/07/2011	50	Schodulo C: Emission Limits of the license			Voc	отн	NA		
BIOTILIET 1		00/07/2011	. 50	Emissions from the biofilter shall not	0	ppm	165		INA		
				exceed those ELV's as set out in							
	Hydrogen sulphide	06/07/2011	5	Schedule C: Emission Limits, of the licence.		ppm	ves	отн	NA		
				emissions from the biofilter shall not	C		ľ				
				exceed those ELV's as set out in							
	Mercaptans	06/07/2011	. 5	Schedule C: Emission Limits, of the licence.		ppm	yes	OTH	NA		
				evened these FLV's as set out in	19						
D' - (1) 2	A	00/07/2014		exceed those ELV's as set out in				0711			
Biofilter 2	Ammonia (NH3)	06/07/2011	. 50	Emissions from the biofilter shall not		ppm	yes	UIH	NA		
				exceed those ELV's as set out in							
	Hydrogen sulphide	06/07/2011	5	Schedule C: Emission Limits. of the licence.		maa	ves	отн	NA		
				Emissions from the biofliter shall not	C			-			
				exceed those ELV's as set out in							
	Mercaptans	06/07/2011	. 5	Schedule C: Emission Limits, of the licence.		ppm	yes	OTH	NA		
					19						
Diafiltar 1		14/12/2014		exceed those ELV's as set out in				OTU			
BIOTIITER 1	Ammonia (NH3)	14/12/2011	. 50	Emissions from the plotliter shall not	<u> </u>	ppm	yes	ОН	NA		
				exceed those ELV's as set out in							
	Hydrogen sulphide	14/12/2011	5	Schedule C: Emission Limits, of the licence		nnm	ves	отн	NA	1	
	in a company of the c	1-1/12/2011	 	Emission of Emission Emility of the fitterice.	0		,				
			1	exceed those ELV's as set out in	ľ					1	1
	Mercaptans	14/12/2011	. 5	Schedule C: Emission Limits, of the licence.		ppm	yes	OTH	NA		





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

	Continuous Monitoring		
4	Does your site carry out continuous air emissions monitoring?	Yes	
	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 Yes

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
		none in licence. Normally <50mg/Nm3								Data not available for 2011. To be complied for 2012 reporting.
Flare Stack	Carbon monoxide (CO)			SELECT	SELECT					

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
	¥ 16.5 a b a 1.1.5 a b a a 11.4 a a 11.4 a a 16.		stand be a second stand	

* 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

Table 5: Solver limit value	nt Management Plan Summary Total VOC	Emission	<u>Solvent</u> regulations	Please refer to linked solvent regulations to and 6							
Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site (direct and fugitive)	emissions to Air emissions as from entire site %of solvent (direct and input fugitive) Total Emission Limit or any revision ther		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				

SELECT

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

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

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

	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
Γ		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 de	details in the		
-	comment section of Table 3 below		Yes	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 Asse	sessment of		Monitoring in 2011 was undertaken prior to issue of checklist. Monitoring for 2012 will be
4	require improvement in additional information box checklist resu	sults checklist	No	undetaken in accordance with guidance and checklist for 2012 reporting.

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	Wastewater/Sewe	BOD	discrete	Quarterly	Annual	750	All results < 1.2 x ELV	66.42	mg/L	yes	ved Oxygen Meter (Ele	I.S. (Irish Standard)	ISO 5667-1:2006 ISO 5667-3:2003	NA	NA	Flow measurement not
		COD	discrete	Quarterly	Annual	1000	All results < 1.2 x	389	mg/L	yes	rophotometry (Colorin	I.S. (Irish Standard)	ISO 5667-3:2003	NA	NA	
		рН	discrete	Quarterly	Annual	6 to 9	All results < 1.2 x	7.16	pH units	yes	pH Meter (Electrode)	I.S. (Irish Standard)	ISO 5667-3:2003	NA	NA	
		Suspended Solids	discrete	Quarterly	Annual	1000	All results < 1.2 x	328	mg/L	yes	Gravimetric analysis	I.S. (Irish Standard)	ISO 5667-3:2003	NA	NA	
		Sulphate	discrete	Quarterly	Annual	30	All results < 1.2 x ELV	40.43	mg/L	yes	Ion Chromatography	I.S. (Irish Standard)	ISO 5667-1:2006 ISO 5667-3:2003 ISO 5667-11:1997	NA	NA	

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

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

Continuous monitoring

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

Additional Information

SELECT

If yes please summarise your continuous monitoring data below in Table 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 7 site?

Not a batement system bypass occur during the reporting year? If yes please complete table 5 8 below

Table 4: Summary of average emissions -continuous monitoring

			ELV or trigger				Annual Emission	% change +/- from			
			values in licence or				for current	previous reporting	Monitoring	% compliance	
Emission	Emission		any revision		Compliance	Units of	reporting year	year	Equipment	current reporting	
reference no:	released to	Parameter/ Substance	thereof	Averaging 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	

*Measures taken or proposed to reduce or limit bypass frequency





Bund/pipe testing report summary ALL IPPC	C/WASTE licensed facilities	Intensive agricultu	ire facilities please use alternative template			
Bund testing	dropdown menu clic	k to see options			Additional information	
Are you required by your licence to undertake inter	grity testing on bunds and contain					
1 containment structures on site				No	losed. CWF in operation. There are no	bunds on site.
2 Please provide integrity testing frequency period				SELECT		

Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" 3 type units and mobile bunds)



SELECT

SELECT

SELECT SELECT

SELECT

SELECT

* Capacity required should comply with 25% or 110% containment rule as detailed in your licence Has integrity testing been carried out in accordance with licence requirements and are all structures tested in

4 line with BS8007/EPA Guidance?

5 Are channels/transfer systems to remote containment systems tested?
 6 Are channels/transfer systems compliant in both integrity and available volume?

7 Do all sumps and chambers have high level liquid alarms?

8 If yes to Q7 are these failsafe systems included in a maintenance and testing programme?

Pipeline/underground structure testing

Are you required by your licence to undertake integrity testing on underground structures e.g. pipelines or sumps etc ? if yes please fill out table 2 below listing all 1 underground structures and pipelines on site

2 Please provide integrity testing frequency period

SELECT	
SELECT	

Commentary

Tabl	le 2: Summary details of u	nderground structures/pipeline int	egrity test								
Structure ID	T		Does this structure have	Type of secondary containment	T	Integrity reports	Denrik of Last	Integrity test failure explanation	Corrective action	Scheduled date	Results of retest(if in current
Structure ib	Type system	Waterial of construction.	Secondary containment:		Type integrity testing	maintaineu on site:	Results of test	~30 words	Lakeli	IOI TELESL	reporting year)
1	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	1		1	SELECT

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

bunding and storage guidelines

Yes No N/A 2 3 4 5 7 8 a)invest in capital improveme b) operational improvements c)nothing 1 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 Removed obstruction Other (please describe) Replaced section Relined Repaired crack 3 years Other (please specify) Structural assessment Other (please specify) Hydraulic test

Complaints		
	Additional inform	ation
Have you received any environmental complaints in the current reporting year? If yes please complete	There were no rec	orded complaints received by DTC or V&W in 2011

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							
closed during							
reporting year							
Balance of							

complaints end of reporting year

		Incidents							
					Additional inform	ation			
Have any incidents	occurred on site in the current repo	rting year? Please list all incide	ents for current reporting						
	year in Tab	ble 2 below	_	No					
*For information	on on how to report and what								
con	stitutes an incident	What is an incident							
			1						
Table 2 Incidents sur	nmary		7						
-						Other	Activity in		
			Incident category*please			cause(please	progress at time		
Date of occurrence	Incident nature	Location of occurrence	refer to guidance	Receptor	Cause of incident	specify)	of incident	Communication	Occurrence
	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									

	Preventative			
Corrective action<20	action <20		Resolution	Liklihood of
words	words	Resolution status	date	reoccurence
		SELECT		SELECT

Groundwater /Contaminated land summary report

		Comments
 Are you required to carry out groundwater monitoring as part of your licence requirements? Are you required to carry out soil monitoring as part of your licence requirements? 	yes yes	
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) 6 Have actions been taken to address contamination issues?If yes please summarise remediation 	yes	Historic
strategies proposed/undertaken for the site	yes	
7 Please specify the proposed time frame for the remediation strategy	SELECT	
8 Is there a licence condition to carry out/update ELRA for the site?	no	
9 Has any type of risk assesment been carried out for the site?	yes	was undertaken in accordance with Condition 4.14 of the
10 Has a Conceptual Site Model been developed for the site?	yes	
11 Have potential receptors been identified on and off site?	yes	The site is unlined and lies adjacent to the Castletown Estuary and above two aquifers.
		Site is unlined. Leachate migrates from the landfill

12

Is there evidence that contamination is migrating offsite?

Table 1: Upgradient Groundwater monitoring results

											Upward trend in
										% change in	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
					408						
2011	WM1	Alkalinity	Titrimetry	Annual			mg/l				data not available
					<5						
		Aluminium	ICP-MS	Annual			ug/l	150	0.2		data not available
			Aquakem Auto-		0.87	0.18					
			analyser using								
		Ammonia	phenate	Monthly			mg/l	65-175	0.15	-42	data not available
		B.O.D.									data not available
		Boron	ICP-MS	Annual	6		ug/l	750	1		data not available
		Cadmium	ICP-MS	Annual	<0.1		ug/l	3.75	0.005		data not available
		Calcium	ICP-MS	Annual	118.01		ug/l		200		data not available
		C.O.D.		Annual	0		mg/l				data not available

yes

to underlying groundweater which utimately discharges to

the estuary.

				623	515.22					
		Aquakem Auto-								
		analyser using								
		ferricyanide								
	Chloride	method	Monthly			mg/l	24-187.5	30	-134% data	a not available
	Chromium	ICP-MS	Annual	0.7		ug/l	37.5	0.03	data	a not available
		Conductivity		3060	5710					
	Conductivity	Meter	Monthly				800-1875	1000	12% data	a not available
	Copper	ICP-MS	Annual	4.6		ug/l	1500	0.03	data	a not available
		Continuous		<0.05						
		Elow Analyser								
		using in-line								
		ultraviolot								
		irradiation and								
	Cyanida	flach distillation	Annual			mg/l	27 5	0.01	data	a not available
	 Cyanide	Discolved	Annuai	46	26	ing/i	37.5	0.01	uala	a not available
		Dissolveu	Quartarly	40					199/ data	a not available
	D.U.	Lon Chromaton	Quarterly	<0.150		mg/l		1	40% Udid	
	 Fluoride	ION Chromatog	Annual	<0.100 49.2		mg/i		1	data	a not available
	Iron		Annual	40.3		ug/I	40.75	0.2	data	a not available
	Lead		Annual	<0.5		ug/I	18.75	0.01	data	a not available
	Magnesium		Annual	09.00 10.9		mg/I		50	data	a not available
	Manganese		Annual	10.0		ug/I	0.75	0.05	data	a not available
	 Mercury	ICP-MS	Annual	<0.05		ug/l	0.75	0.001	data	a not available
	 Nickel	ICP-MS	Annual	<0.5		ug/l	15	0.02	data	a not available
	o-Phosphate	analyser using	Annual	<0.02		mg/l		0.03	data	a not available
	рН	pH Meter	Quarterly	7.5	7.4			6.5- 9.5	1% data	a not available
	Potassium	ICP-MS	Annual	21.34		mg/l		5	data	a not available
	Residue on Evapo	ration	Annual	1802		mg/l			data	a not available
	 Sodium	ICP-MS	Annual	463.85		mg/l	150	150	data	a not available
		lon		225.7						
		Chromatograph								
	Sulphate	у	Annual			mg/l	187.5	200	data	a not available
		TOC Analyser		1.8	2					
		using high								
		temperature								
		combustion								
	T.O.C.	method	Quarterly			mg/l			50% data	a not available
				1.33						
		Aquakem Auto-								
		analyser using								
		colorimetric								
	T.O.N	determination	Annual			mg/l			data	a not available
	Total S Solids								data	a not available
	Zinc	ICP-MS	Annual	3		ug/l		0.1	data	a not available
,		í.	1	1						

.+ 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

											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

2011 Wefs Akanony Turnery Annal Image Bit A Annal Bit A Bit A<						1470						
abilityNumberNum	2011	14/11/10	Alkaliaity	Titrimotry	Annual			ma/l				data not available
Image: section of the section of t	2011	VVIVIO	Aikdiiility	паппеау	Annual	81.6		1118/1				
Image: Second state of the second s			Aluminium	ICP-MS	Annual	01.0		ug/l	150	0.2		data not available
Image: Section of the section of t						130.15	89.90				-696%	
Image: Solution of the state of the sta												
Image: Section of the section of				Aquakem Auto-								
Annona nethod Monthy nethod Monthy nethod Monthy B.D.D. Nonlai Nonlai Secon C.D.S. Nonlai Secon Secon<				analyser using								
Image: Section of the section of				phenate								
Image: book of the second se			Ammonia	method	Monthly			mg/l	65-175	0.15		data not available
Brom ICP AS Annual 1985.3 wg/l 770 1 diate out available Gdafuim ICP AS Annual 237.50 Hg/l 1.75 0.005 data not available C.0.0 GA Annual 237.50 Hg/l 1.05 0.005 data not available C.0.0 G.0.0 Annual 8/92 1906.4 1.05 200 data not available Applementation Annual 8/92 1906.4 1.05 24.187.5 30 data not available analyser strip introventic Applementation analyser strip introventic 7.0 1.02 24.187.5 30 data not available Chordin renet/available 1265.4 1201 23.7 0.03 data not available Chordin renet/available 3.0 1265.4 800-137.5 0.03 data not available Conductivity Matein 5.4 2.0 12.00 2.003 data not available Conductivity Matein 5.4 2.0 2.0 <td></td> <td></td> <td>B.O.D.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>data not available</td>			B.O.D.									data not available
Image: market of the second secon			Boron	ICP-MS	Annual	1865.3		ug/l	750	1		data not available
Image: constraint of the second sec			Cadmium	ICP-MS	Annual	0.1		ug/l	3.75	0.005		data not available
Image: Co.D. Anual mg/n Image: Co.D. Anual Market of S72 1908-4 mg/n Image: Co.D. Market of S72 1908-4 Market of S72 1908-4 Market of S72 3266 3266 Aqueken Auto analyser uing lerr(2,nic) Anual 3 mg/n 24.187.5 30 data not available Choride method Monthly 3660 12454.4 0 30 data not available Conductivity Market 3660 12454.4 00.0137 10.00 data not available Conductivity Market Anual 6.4 ug/n 550 0.03 data not available Conductivity Market Anual 6.4 ug/n 1500 0.03 data not available Continuous Nova Anlyser Anual 6.4 ug/n 355 0.01 data not available Continuous Nova Anlyser Anual 6.4 ug/n 355 0.02 data not available Continuous Nova Anlyser Gonan			Calcium	ICP-MS	Annual	237.68		ug/l		200		data not available
Image: Second			C.O.D.		Annual			mg/l				
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Image: chronium Image: chroium			Chloride	method	Monthly			mg/l	24-187.5	30		data not available
Image: second control with se			Chromium	ICP-MS	Annual	3		ug/l	37.5	0.03		data not available
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copper CP-MS Anual 5.4 ug/l 1500 0.03 data not available a A			Conductivity	Meter	Monthly				800-1875	1000		data not available
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Image: Second			Cyanide	flash distillation	Annual			mg/l	37.5	0.01		data not available
D.O. Oxygen Meter Quarterly Image: Comparison of the compariso						20	17					
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Ion Chromatograph FluorideIon Chromatograph Annual<<< </td <td></td> <td></td> <td>D.O.</td> <td>Oxygen Meter</td> <td>Quarterly</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-35%</td> <td>data not available</td>			D.O.	Oxygen Meter	Quarterly						-35%	data not available
Image: Second				lon		<0.150						
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Image SignerICP-MSAnnual87.61mg/lS0data not availableImage SignerManganeseICP-MSAnnual2996.8ug/l0.050.005data not availableImage SignerMercuryICP-MSAnnual<0.05			Lead	ICP-MS	Annual	1.9		ug/l	18.75	0.01		data not available
ManganeseICP-MSAnnual2996.8ug/l0.050.001data not availableMercuryICP-MSAnnual<0.05			Magnesium	ICP-MS	Annual	87.61		mg/l		50		data not available
MercuryICP-MSAnnual<0.05ug/i0.0750.001data not availableMickelNickelICP-MSAnnual15.2ug/i150.02data not availableAuguster using analyser using accorbic acidAquakem Auto- analyser using accorbic acid0.24Image: second content of the se			Manganese	ICP-MS	Annual	2996.8		ug/l		0.05		data not available
Image: NickelICP-MSAnnual15.2ug/I150.02data not availableImage: NickelImage: Nickel			Mercury	ICP-MS	Annual	<0.05		ug/l	0.75	0.001		data not available
Image: series of the series			Nickel	ICP-MS	Annual	15.2		ug/l	15	0.02		data not available
Aquakem Auto- analyser using acorbic acidAquakem Auto- analyser using acorbic acidAnualMater <t< td=""><td></td><td></td><td></td><td></td><td></td><td>0.24</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>						0.24						
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Image: secorbic acid ascorbic acid ascorbic acid method Annual mg/I 0 0.03 data not available Image: secorbic acid pH pH Meter Quarterly 7.8 7.0 6.5- 9.5 10% data not available Image: secorbic acid pH Meter Quarterly 7.8 mg/I 6.5- 9.5 10% data not available Image: secorbic acid potassium ICP-MS Annual 83.36 mg/I 5 0 data not available Image: secorbic acid kesidue on kesium kesidue on kesium Annual 2015 mg/I mg/I 10% 10% data not available Image: secorbic acid kesidue on kesium kesidue on kesium				analyser using								
o-PhosphatemethodAnnualmg/I0.03data not availableopHpH MeterQuarterly7.87.06.5- 9.510%data not availableoPotassiumICP-MSAnnual83.36mg/I50data not availablePotasciumResidue on EvaporationAnnual2015mg/I10%10%10%4at not available				ascorbic acid								
pHpH MeterQuarterly7.87.06.5- 9.51% data not availablePotassiumPotassiumICP-MSAnnual83.36mg/l5data not availableResidue on EvaporationResidue on Annual2015mg/lImg/lImg/lImg/lImg/lImg/l			o-Phosphate	method	Annual			mg/l		0.03		data not available
Potassium ICP-MS Annual 83.36 mg/l 5 data not available Residue on Evaporation Residue on Annual 2015 mg/l 6			рН	pH Meter	Quarterly	7.8	7.0			6.5-9.5	1%	data not available
Residue on2015mg/ldata not availableEvaporationAnnualmg/ldata not available			Potassium	ICP-MS	Annual	83.36		mg/l		5		data not available
Evaporation Annual mg/l data not available			Residue on			2015						
			Evaporation		Annual			mg/l				data not available

	Sodium	ICP-MS	Annual	249.89		mg/l	150	150		data not available
		lon		15.3				100		
		Chromatograph								
	Sulphate	v	Annual			mg/l	1975	200		data not available
	Suphate	y	Annual	107.6	103	1116/1	107.5	200		
	T.O.C.	using high	Quarterly	0.10		mg/l			58%	data not available
	T.O.N	analyser using	Annual	0.16		mg/l				data not available
	Total S Solids									data not available
				36.6						
	Zinc	ICP-MS	Annual			ug/l		0.1		data not available
WM10	Alkalinity	Titrimetry	Annual	nm		mg/l				data not available
	Aluminium	ICP-MS	Annual	28.7		ug/l	150	0.2		data not available
				70.12	24.10					
		Aquakem Auto-								
		analyser using								
		phenate								
	Ammonia	method	Monthly			mg/l	65-175	0.15	-35%	data not available
	B.O.D.			0						data not available
	Boron	ICP-MS	Annual	1475		ug/l	750	1		data not available
	Cadmium	ICP-MS	Annual	<0.1		ug/l	3.75	0.005		data not available
	Calcium	ICP-MS	Annual	85.7		ug/l		200		data not available
	C.O.D.		Annual	0		mg/l				data not available
				1952	1670.11					
		Aquakem Auto-								
		analyser using								
		ferricyanide								
	Chloride	method	Monthly			mg/l	24-187.5	30		data not available
	Chromium	ICP-MS	Annual	0.9		ug/l	37.5	0.03	9%	data not available
		Conductivity		66600						
	Conductivity	Meter	Monthly				800-1875	1000		data not available
	Copper	ICP-MS	Annual	5	13821.11	ug/l	1500	0.03	52%	data not available
				<0.05						
		Continuous								
		Flow Analyser								
		using in-line								
		ultraviolet								
		irradiation and								
	Cvanide	flash distillation	Annual			mg/l	37.5	0.01		data not available
				33	25					
		Dissolved								
	D.O.	Oxygen Meter	Quarterly						4%	data not available
1		lon		0.15					770	
		Chromatograph								
	Fluoride	V	Annual			mg/l		1		data not available
1	Iron	ICP-MS	Annual	2211.1		ug/l		0.2		data not available
1	Lead	ICP-MS	Annual	0.6		ug/l	18.75	0.01		data not available
	Magnesium	ICP-MS	Annual	125.98		mg/l		50		data not available
	Manganese	ICP-MS	Annual	192.7		ug/l		0.05		data not available
1	Mercurv	ICP-MS	Annual	<0.05		ug/l	0.75	0.001		data not available
						- 07	0.75	0.001		

	Nickel	ICP-MS	Annual	4.1		ug/l	15	0.02		data not available
				0.03						
		Aquakem Auto-								
		analyser using								
		ascorbic acid								
	o-Phosphate	method	Annual			mg/l		0.03		data not available
	pН	pH Meter	Quarterly	7.3	7.2			6.5- 9.5	0%	data not available
	Potassium	ICP-MS	Annual	82.85		mg/l		5		data not available
	Residue on			3567						
	Evaporation		Annual			mg/l				data not available
	Sodium	ICP-MS	Annual	1044.07		mg/l	150	150		data not available
		lon		115.9						
		Chromatograph								
	Sulphate	у	Annual			mg/l	187.5	200		data not available
		TOC Analyser		34.3	132.03					
		using high								
		temperature								
		combustion								
	T.O.C.	method	Quarterly			mg/l			-545%	data not available
				0.26	0.84					
		Aquakem Auto-								
		analyser using								
		colorimetric								
	T.O.N	determination	Annual			mg/l			-223%	data not available
	Total S Solids			0						data not available
	Zinc	ICP-MS	Annual	12.1		ug/l		0.1		data not available
										data not available
										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)

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

Drinking water (public Interim Guideline supply) standards

Values (IGV)

Table 3: Soil results

Date of	Sample location	Parameter/			Maximum	Average	
sampling	reference	Substance	Methodology	Monitoring frequency	Concentration	Concentration	unit
06/10/2011	SW5- SW9	Cyanide	TM 181	Annually	<1	<1	mg/kg
	Sediment				1.15	0.853	
	samples	Cadmium	TM 182	Annually			mg/kg
		Chromium	TM 183	Annually	41.4	37.12	mg/kg
		Copper	TM 184	Annually	23.3	30.76	mg/kg
		Lead	TM 185	Annually	45.6	36.8	mg/kg
		Manganese	TM 186	Annually	675	456.8	mg/kg
		Mercury	TM 187	Annually	<0.14	<0.14	mg/kg
		Nickel	TM 188	Annually	36.8	31.6	mg/kg
		Zinc	TM 189	Annually	255	199.7	mg/kg

management system at the site. The report recommended that the Best Practicable Environmental Option for the remediation of Dundalk landfill is the capping of the landfill with a low permeability liner augmented by monitored natural attenuation. Groundwater remediation of the Quaternary gravel aquifer impacted by Dundalk landfill leachate is reliant on both the landfill capping intervention and on monitored insitu natural attenuation processes. The landfill site was restored in 2006. Works include installation of capping layer, provision of storm water drainage, leachate collection trench, provision of gas collection system, provision of gas flare, grading of site and the provision of

Environmental Liability Risk Assessment

Companyoutom	
I Ammontary	

1	Is it a requirement of your licence to complete an ELRA?	No
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?	

No	Landfill Site is closed. CWF in operation	ation
SELECT		
SELECT		
SELECT		

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			ELF		
					Date of				Does the current
					implementation of				financial provision
					mitigation		Revised Risk score for		(FP) cover the risk
Risk ID	Potential hazards	Environmental effect	Previous risk score	Action	measures	Comment	current reporting year	ELRA costing	score?
Chemical storage	Bund failure resulting in spillage of hazardous chemicals	Surface water /soil/groundwater	6	Infrastructural improvements	31/05/2009	Relined all bunds >10years old	3	£10,000	Vec
enemical storage	on site	contamination	0	initiastractural improvements	51/05/2005	on site	5	010,000	103
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)

					Change in Risk		Does the current
				Restoration Aftercare	category since		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?
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT

Value of current financial provision for site

	Environmental Management Program	ne (EMP)/Continuous Improver	nent 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	Landfill Site is closed. CWF in operation
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	No	
	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance		
3	with the licence requirements	Yes	Landfill Site is closed. CWF in operation
	Do you maintain an environmental documentation/communication system to inform the public on		
4	environmental performance of the facility, as required by the licence	Yes	

Environmental Management Programme (EMP) report									
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes				
			For 2012 there is an intention						
			now to closely crop some						
			areas of the landfill to						
			encourage the growth of						
			native wild plants at the						
	To allow further growth of		expense of existing grasses						
	flora & fauna diversity by		etc. this will be done in						
	not cutting the grass on the		consultation and with advice						
	landfill & restricting other		of local environmental		Improved Environmental				
Additional improvements	activities.	50	groups.	Individual	Management Practices				
			la in internal of the full countries						
			It is intended to follow this						
			up with another survey &						
			leakage of leachate from the						
			site into this stream by						
	In addition an		examining the systems						
	environmental survey of		whereby surface water						
	the stream bounding the		collection is drained into this						
	site was carried out during		stream.		Improved Environmental				
Additional improvements	2011,	50		Individual	Management Practices				
SELECT	- /	SELECT		SELECT	SELECT				

Noise Monitoring Report Summary

1	Was noise mo	nitoring a licenc	e requirement fo	or the AER period	1?				Yes	
	If yes please fi	ll in table 1 nois	e summary below	N						1
2	Was noise mo "Checklist for	nitoring carried noise measurem	out using the EP. nent report" inclu	A Guidance note Jded in the guida	including con ince note as ta	npletion of table 6?	the	<u>Draft Noise</u> Guidance	No	
3	Does your site	have a noise re	duction plan	0					No	
4	When was the	noise reductior	n plan last update	ed?						
5	Have there be	een changes rele	evant to site noise	e emissions (e.g. survey?	plant or oper	ational char	nges) since tl	he last noise	No	
	Table 1: Noise	monitoring sur	mmary							-
	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?
	08/02/2011	20 minute	N1		68.1	58.6	71.4		No	SELECT
	08/02/2011	20 minute	N2		53.2	48.7	53.7		No	
	08/02/2011	20 minute	N3		61.6	57.3	61		No	
	08/02/2011	20 minute	N4		68.4	48.7	72.3		No	
	03/03/2011	15 minute	N1		61.2	42.3	64		No	
	03/03/2011	15 minute	N2		51.6	45.7	53.8		No	
	03/03/2011	15 minute	N3		46.3	38.6	49.5		No	
									No	

55.1

*Please ensure that a tonal analysis has been carried out as per guidance note NG4. These records must be maintained onsite for future inspection

03/03/2011 15 minute

N4

If noise limits exceeded as a result of noise attributed to site activities, please choose the corrective action from the following options?

48.6

41

In general, noise from other activities around the site, including traffic movement and other commercial operations, generate greater noise impact than the landfill operations themselves at the boundaries and location points. The flare was not audible at noise measurement locations and the higher noise

Monitoring for 2012 will be undertaken in accordance with EPA guidance and monitoring checklist.

Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is <u>site c</u> ompliant with noise limits (day/evening/night)?
Heavy constant traffic	No
Road Traffic Noise	Yes
To rear of property, traffic, with some audible commercial activity (use LA90)	No
New housing development traffic on Racecourse Road (use LA90)	No
Old Newry Road still busy	No
Near to junction/rear of property	No
To rear of property, traffic noise	No
New housing development	No

nothing**

Resource usage/ Energy Efficiency

When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below								
	SEAI - Large							
Is the site a member of any accredited programmes for reducing energy usage/water conservation such	Industry Energy							
as the SEAI programme linked to the right? If yes please list them in additional information	Network (LIEN)	no						
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			
Epermyllice	Provious voor W/h	Current year kWh	Production +/- % compared to previous reporting	Energy Consumption +/- % vs overall site
Total	FTEVIOUS year KWIT		year	production
Electricity	17599	13963	-21%	CWF In operation. Landfill site is closed. Fan speed of the enclosed LFG flare was reduced in 2011
Fossil Fuels:				
Heavy Fuel Oil				
Light Fuel Oil				
Natural gas				
Coal/Solid fuel				
Renewable energy generated on site				

1

2

3

* where site production information is available please enter percentage increase or decrease compared to the previous reporting year.

Table 2 Water usage	on site			
			Production +/- %	Energy
			compared to	Consumption +/- %
			previous reporting	vs overall site
Water use	Previous year m3/yr.	Current year m3/yr.	year**	production*
Groundwater				
Surface water				
Public supply	2900	3210	10	CWF in operation on
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 Au								
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					

Additional information No energy audit has been undertaken for

|--|

PRTR facility logon

	SECTION B- WASTE	ACCEPTED ONTO SITE-TO I	BE COMPLETED BY ALL IP	PC AND WASTE FACI	LITIES					
								Additional Informatio	n I	
	Were any wastes accept	ed onto your site for recovery or dis	sposal or treatment prior to reco	very or disposal within the	boundaries of your facility	?; (waste generated within your		segregate waste		
1	boundaries is to be capt	ured through PRTR reporting)					Yes	from municipal		
	If yes please enter detail	s in table 1 below							1	
2	Did your site have any re	ejected consignments of waste in the	e current reporting year? If yes p	lease give a brief explanation	on in the additional inform	ation	No			
3	Was was	te accepted onto your site that was	generated outside the Republic	of Ireland? If yes please sta	te the quantity in tonnes i	n additional information	No			
	Table 1 Details o	of waste accepted onto y	your site for recovery,	disposal or treatm	nent (do not inclue	de wastes generated at you	ur site, as th	ese will have b	een reported in y	our PRTR workbook)
	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 treatment operation carried out at
	tonnage limit for your site (total			accepted Please enter an	accepted in current	previous reporting year (tonnes)	ease over	reduction/increase	only applies if the waste	and the description of this operation
	tonnes/annum)			accurate and detailed	reporting year (torines)		+/ - %	reporting year	component	
		European Waste Catalogue EWC		description - which						
		codes		Catalogue EWC codes						
				other organic solvents,						
			07- WASTES FROM ORGANIC	washing liquids and						
E.g.		07 05 04*	CHEMICAL PROCESSES	mother liquors	22	12	83%		0%	SELECT
			(HOUSEHOLD WASTE AND							
			SIMILAR COMMERCIAL,							
			INDUSTRIAL AND							
			INCLUDING SEPARATELY	biodegradable kitchen						
E.g.		20 01 08	COLLECTED FRACTIONS	and canteen waste	10	20	-50%		0%	SELECT
			(HOUSEHOLD WASTE AND							
			SIMILAR COMMERCIAL,							
			INDUSTRIAL AND							
			INCLUDING SEPARATELY							R13-Storage of waste pending any of the operations number
		20 02 01	COLLECTED FRACTIONS	Organic waste garden	2702	2827	-4%			R12 (excluding temporary storage)
			15- WASTE PACKAGING:							
			ABSORBENTS, WIPING							
			CLOTHS, FILTER MATERIALS							R5-Recycling/reclamation or other inorganic materials
		15 01 07	NOT OTHERWISE SPECIFIED	glass packaging	452	606				inorganic construction materials
			20- MUNICIPAL WASTES							
			(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL							
			INDUSTRIAL AND							
			INSTITUTIONAL WASTES)							
		20 01 40	INCLUDING SEPARATELY COLLECTED FRACTIONS	other metals (non- packaaina)	308	177				R4- Recyclina/reclamation of metals and metal comp
			15- WASTE PACKAGING;							
			CLOTHS, FILTER MATERIALS							
			AND PROTECTIVE CLOTHING							R13-Storage of waste pending any of the operations number
		15 01 03	NOT OTHERWISE SPECIFIED	wood packaging	802	433				R12 (excluding temporary storage)
			(HOUSEHOLD WASTE AND							
			SIMILAR COMMERCIAL,							
			INDUSTRIAL AND INSTITUTIONAL WASTES)							
			INCLUDING SEPARATELY							R13-Storage of waste pending any of the operations number
		20 01 38	COLLECTED FRACTIONS	wood non-packaging	400	1020				R12 (excluding temporary storage)
			(HOUSEHOLD WASTE AND							
			SIMILAR COMMERCIAL,							
			INDUSTRIAL AND							
			INCLUDING SEPARATELY							R13-Storage of waste pending any of the operations number
		20 01 11	COLLECTED FRACTIONS	textiles , non packaging	18	20				R12 (excluding temporary storage)
			20- MUNICIPAL WASTES							
			(HOUSEHOLD WASTE AND							
			SIMILAR COMMERCIAL,							
			INSTITUTIONAL WASTES)							
			INCLUDING SEPARATELY	Newspaper and						
		20 01 01	COLLECTED FRACTIONS	magazines	500	220	1			

our site	Quantity of waste remaining on site at the end of reporting year (tonnes)	Comments -
		Brought onto site from sister IPPC plant
red R1 to		
which cycling of		
unds		
red R1 to		
red R1 to		
red R1 to		

		-						
	15- WASTE PACKAGING;							
	ABSORBENTS, WIPING							
	CLOTHS, FILTER MATERIALS							
	AND PROTECTIVE CLOTHING							
15 01 02	NOT OTHERWISE SPECIFIED	Plastic Packaaina	680	719				
10 01 02	20- MUNICIPAL WASTES	r labae r aellaging						
	(HOUSEHOLD WASTE AND							
	INSTITUTIONAL WASTES)							
	INCLUDING SEPARATELY	Mixed residual food						
20 03 01	COLLECTED FRACTIONS	waste	490	60			D1-Deposit into or onto land	
		Non portable						
	16- WASTES NOT OTHERWISE	automotive and						
16 06 01	SPECIFIED IN THE LIST	industrial	5.04	4				
	16- WASTES NOT OTHERWISE							
16 06 04	SPECIFIED IN THE LIST	Portable	1.5	1				
	13- OIL WASTES AND WASTES							
	OF LIQUID FUELS (except							
	edible oils and those in							
13 XX XX	chanters 05, 12 and 19)	Lubrications vehicles etc	5.8	4.5				
1970/00		Lubrications, venicles etc	5.0	7.5				
	SIMILAR CONIVERCIAL,							
	INDUSTRIAL AND							
	INSTITUTIONAL WASTES)							
	INCLUDING SEPARATELY							
20 01 25	COLLECTED FRACTIONS	Cooking oil	3.5	5.9				
	20- MUNICIPAL WASTES							
	(HOUSEHOLD WASTE AND							
	SIMILAR COMMERCIAL,							
	INDUSTRIAL AND							
	INSTITUTIONAL WASTES)							
	INCLUDING SEPARATELY							
20 0.1 28	COLLECTED FRACTIONS	Waste Paint and Varnish	3.6	3				
20 01 20			5.0					
	17- CONSTRUCTION AND							
17.01.07		Duilding Dubble	0.40	4770			D1 Denositi inte ex ente land	
1/010/	15 WASTE DACKACING	вининд кирріе	943	1//8			D1-Deposit Into or onto Iana	
15.01.01	15- WASTE PACKAGING;	and the second second second					K3-Kecycling/reclamation or organic substances which are not used	
15 01 01	ABSORBENTS, WIPING	caraboara packaging	1024	1978	-48%		as solvents (including composting asnother biological transformation	

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

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

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 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

Arc	ea ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	edicted date to cease andfilling	Licence permits asbestos Is there a separate cell for asbestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area	Comments on liner type
											SELECT UNIT	SELECT UNIT	SELECT UNIT	
Cell 8														

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

N/A	
SELECT	
ELECT	
/es	
No	Only CA SITE
Δ/Δ	

Was meterological 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
								Dundalk landfill site is
								closed. The landfill site
								was restored in 2006.
								Works include
								installation of capping
								layer(geosynthetic clay
								liner, provision of
								leachate collection
								trench provision of gas
								collection system.
								provision
In accordance with wast	In accordance with waste licence r	In accordance with waste licence	In accordance with waste	No	No	No	No	of gas flare

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

Table 5	Cappin	g-Landfil	l on	ly
---------	--------	-----------	------	----

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
		The site is				Dundalk Jandfill site is
		site is unlined and an area of				closed. The
		approximately 79,000 m2 has				landfill site was
		been capped.			tbc	restored in

*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

N/A SELECT

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

			Was surface emissions	
Gas Captured&Treated			monitoring performed	
by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid	during the reporting year?	Comments
746114	N/A		No	Not required by licence



| PRTR# : W0034 | Facility Name : Dundalk Landfill & Civic Waste Facility | Filename : W0034_2011aer.xls | Return Year : 2011 |

19/06/2012 15:40

Guidance to completing the PRTR workbook

AER Returns Workbook

REFERENCE YEAR 2011

1. FACILITY IDENTIFICATION	
Parent Company Name	Dundalk Town Council
Facility Name	Dundalk Landfill & Civic Waste Facility
PRTR Identification Number	W0034
Licence Number	W0034-02
Waste or IPPC Classes of Activity	
No.	class_name

	Recycling or reclamation of organic substances which are not used
	as solvents (including composting and other biological
4.2	transformation processes).
	Blending or mixture prior to submission to any activity referred to in
3.11	a preceding paragraph of this Schedule.
	Repackaging prior to submission to any activity referred to in a
3.12	preceding paragraph of this Schedule.
	Storage prior to submission to any activity referred to in a
	preceding paragraph of this Schedule, other than temporary
	storage, pending collection, on the premises where the waste
3.13	concerned is produced.
	The treatment of any waste on land with a consequential benefit for
4.10	an agricultural activity or ecological system.
	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.
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
Address 1	Newry Road
Address 2	Dundalk
Address 3	Co. Louth
Address 4	
	Louth
Country	Ireland
Coordinates of Location	-6.39622 54.0147
River Basin District	GBNIIENB
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	Peter McVeigh
AER Returns Contact Email Address	peter.mcveign@dundaiktown.ie
AER Returns Contact Position	Landfill Manager
AER Returns Contact Telephone Number	042 9332276
AER Returns Contact Mobile Phone Number	0800437922
AER Returns Contact Fax Number	042 9392910
Production Volume Units	0.0
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	0
User Feedback/Comments	0
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
50.1	General
5(c)	Installations for the disposal of non-hazardous waste
50.1	General
3. SOLVENTS REGULATIONS (S.I. No. 543 of 20	02)
Is it applicable?	
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

| PRTR# : W0034 | Facility Name : Dundalk Landfill & Civic Waste Facility | Filename : W0034_2011aer.xls | Return Year : 2011 |

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SECTION A : SECTOR SPECIFIC 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		
03		Carbon dioxide (CO2)	С	OTH		0.0	0.0	0.0	0.0		
01		Methane (CH4)	С	OTH		512104.0	894000.0	40908.0	340988.0		

* 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			METHOD	QUANTITY				
				Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Ye	ar F (Fugitive) KG/Year	
					0.	ſ	0.0	0.0 0.0	

dditional 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) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T(total) KGyr for Section A: Sector specific PRTR pollutants above. Please complete the table below:												
Landfill:	Dundalk Landfill & Civic Waste Facility											
Please enter summary data on the quantities of methane flared and / or												
utilised			Met	hod Used								
				Designation or	Facility Total Capacity							
	T (Total) kg/Year	M/C/E	Method Code	Description	m3 per hour							
Total estimated methane generation (as per				calculated from site model								
site model)	894000.0	С	OTH	& flow	N/A							
Methane flared	512104.0	С	OTH	calculated from site model &	0.0	(Total Flaring Capacity)						
Methane utilised in engine/s	0.0				0.0	(Total Utilising Capacity)						
Net methane emission (as reported in Section												
A above)	381896.0	С	OTH	calculated from site model &	N/A							

4.2 RELEASES TO WATERS

Link to previous years emissions data

| PRTR# : W0034 | Facility Name : Dundalk Landfill & Civic Waste Facility | Filename : W0034_2011aer.xls | Return Year : 2011 |

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SECTION A : SECTOR SPECIFIC PRTR POLI	LUTANTS	Data on ar	mbient monitoring of	of storm/surface water or groundwa	ater, conducted as part of y	our lic	ence requirements, shoul	d NOT be submitted under AE	R / PRTR Reporting as this	only concerns Releases from your facil
	RELEASES TO WATERS		Please enter all quantities in this section in KGs							
POL							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	

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

SECTION B : REMAINING PRTR POLLUTANTS

	RELEASES TO WATERS		Please enter all quantities in this section in KGs						
PO	LLUTANT						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	

* 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 WATERS		Please enter all quantities in this section in KGs						
PO	LLUTANT						QUANTITY		
		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	

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data

| PRTR# : W0034 | Facility Name : Dundalk Landfill & Civic Waste Facility | Filename : W0034_2011a 19/06/2012 15:40

SECTION A : PRTR POLLUTANTS

						-			
	OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREAT	MENT OR	SEWER		Please enter all quantities in this section in KGs				
	POLLUTANT		N	IETHOD	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	
79	Chlorides (as Cl)	С	OTH		283.0	283.0	0.0	0.0	
08	Nitrogen oxides (NOx/NO2)	С	OTH		2.74	2.74	0.0	0.0	
06	Ammonia (NH3)	С	OTH		154.0	154.0	0.0	0.0	

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

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)										
	DFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREAT		Please enter all quantities	s in this section in KO	s					
	METHOD					0	QUANTITY			
				Method Used						
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	1	A (Accidental) KG/Year	F (Fugitive) KG/Year	
					0.0	0	0.0	0.0	0.0	

4.4 RELEASES TO LAND

Link to previous years emissions data

19/06/2012 15:40

SECTION A : PRTR POLLUTANTS

	RELEASES TO LAND		Please enter all quantities in this section in KGs					
PO	LLUTANT		METHO	D			QUANTITY	
			Meth	nod Used				
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	
					0.0	0.1	0.0	

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

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

	RELEASES TO LAND	Please enter all quantities in this section in KGs						
PO	LLUTANT		METHO	D			QUANTITY	
			Met	thod Used				
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	
					0.0	0	0 00	

5. ONSITE TREATM	ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE PRT# : W0034 Facility Name : Dundalk Landfill & Civic Waste Facility Filename : W0034_2011aer.x/s Return Year : 2011 19/06/2012 15:40												
			Please enter a	all quantities on this sheet in Tonnes								3	
Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	M/C/E	Method Used	Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility <u>Non</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 Ste (HAZARDOUS WASTE ONLY)	
Within the Country Within the Country	20 03 03 20 01 99	No No	490.0	street-cleaning residues other fractions not otherwise specified	D1 D1	M	Weighed	Onsite of generat	V& W Recycling Whiteriver Landfill Co ii Louth, WCP/MH/200190C V&W Recycling to Whiteriver Landfill Co ti Louth, WCP?MH?2001/90C	Dundalk Civic Amenity Site, Newry Road, Dundalk.,.,Ireland Dundalk Civic amenity Site, Newry Road, Dundalk .,.,Ireland			
		* 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