Athy Civic Amenity Centre

Annual Environmental Report 2010

Waste Licence Reg: W0175-01

Original

Prepared by:
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Devoy Park,
Naas,
Co. Kildare.

April 2011

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Appendices

1. Introduction

On the 30th October 2003, the Environmental Protection Agency issued Kildare County Council (KCC) a waste licence for its civic amenity facility located at Gallows Hill, Athy, Co. Kildare. The waste licence reference number is W0175-01. This report addresses Condition 11.4 of the waste licence for the facility.

Condition 11.4 states that:

11.4.1 The licensee shall submit to the Agency for it agreement within one month after the end of each calendar year, an Annual Environmental Report (AER).
11.4.2 The AER shall include as a minimum the information specified in Schedule F: Content of Annual Environmental Report of this licence and shall be prepared in accordance with any relevant written guidance issued by the Agency.

This report addressed the items listed in Schedule F: Content of the Annual Environmental Report of the waste licence for the facility, and covers the reporting period from 1st January 2010 to the 31st December 2010.

2. Site Description and Activities

2.1. Waste Activities carried out at the Facility

Waste activities at Athy Civic Amenity Centre are restricted to those outlined in Part 1 – Activities Licensed of the waste licence.

Licensed Waste Disposal Activities in accordance with the Third Schedule of the Waste Management Act, 1996

Class 11 **Blending or mixing prior to submission to any activity referred to in a preceding paragraph of this schedule.**
This activity is limited to the compaction and storage of municipal solid waste on site, prior to disposal off-site.

Class 12 **Repackaging prior to submission to any activity referred to in a preceding paragraph of this schedule.**
This activity is limited to the compaction of municipal solid waste on site, prior to disposal off-site.

Class 13 **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 concerned was produced.**
This activity is limited to the storage of municipal solid waste, prior to disposal offsite.

Licensed Waste Recovery Activities, in accordance with the Fourth Schedule of the Waste Management Act, 1996

Class 2 **Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)**
This activity is limited to the recycling of textiles, plastics, paper, cardboard, timber, green waste, limited quantities of waste arising from farm and household activities including; household chemicals, paints, inks, adhesives and resins, waste oils, oil filters and agrochemical waste.

Class 3 **Recycling or reclamation of metals and metal compounds**
This activity is limited to the recycling of scrap metal, aluminium cans and white goods.

Class 4 **Recycling or reclamation of other inorganic materials**
This activity is limited to the recycling of glass, household construction and demolition waste, tyres, electronics, fluorescent tubes, batteries and accumulators.

Class 11 **Use of waste obtained from any activity referred to in a receding paragraph of this schedule**
This activity is limited to the reuse of waste such as household construction and demolition waste, white goods or timber.

Class 12 **Exchange of waste for submission to any activity referred to in a preceding paragraph of this schedule**
This activity is limited to the exchange of waste that can be reclaimed and reused such as timber pallets and tyres.

Class 13 **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 produced**
This activity is limited to the storage of waste types authorised by this licence at the facility prior to recovery at an appropriate facility.

Members of the public and small commercial vehicles access the site. The activities carried out at each area are described in the subsections below.

2.2. Site Description

Athy Civic Amenity Centre is a purpose built waste management facility and is located approximately 200 metres off the N78 road between Athy and Kilcullen. A site location map is included in Appendix I. The facility was constructed on land owned by Kildare County Council which had historically been used for the storage of road maintenance equipment. The Site Layout Map for the facility shows the overall layout of the facility.

The household hazardous waste building was constructed with a bunded concrete floor slab, structural steel frame, profiled metal cladding and blockwork walls. The control building was constructed as a single storey, 'bungalow-like' structure. It contains the administration office, canteen, toilets and shower area. An 18m long weighbridge was installed adjacent to the control building.

The site consists of a split level area in the middle of the facility to allow members of the public to dispose of and recycle waste. This was constructed in a 'zig-zag' fashion to accommodate the skips below. A compactor unit was also installed adjacent to the split level area. This facilitates the disposal and compaction of municipal waste.

The civic amenity centre is surrounded by a 2m high palisade fence, for security of the site.

3. Waste Quantities and Composition

The quantity and composition of material received for recovery at the facility from the 1st January 2010 to the 31st December 2010 is outlined in Table 3.1.

Table 3.1. Summary of Recyclables Recovered (Tonnes) from the Facility (2006 – 2010)

Material	2006 (t)	2007 (t)	2008 (t)	2009 (t)	2010 (t)
Cardboard	48.86	54.90	49.86	30.78	14.98
Newspaper	46.28	53.08	55.52	29.78	19.36
Bottles	32.62	45.18	48.88	24.68	14.62
Cans	2.61	4.02	5.48	3.02	2.62
Clothes	15.96	23.84	24.82	8.42	6.62
Electrical Goods	80.06	69.10	87.22	66.72	56.44
Batteries	6.46	5.74	3.40	2.3	1.92
Flat Glass	3.36	-	-	9.28	2.78
Vegetable Oil	0.52	1.90	1.18	0.36	0.38
Gas Bottles	0.44	-	-	-	-
Fluorescent Tubes	0.1	0.12	0.08	0.04	0.1
Metal	-	24.96	38.04	26.12	20.66
Plastic	-	12.70	7.76	23.98	6.26
Green Waste	-	27.26	84.60	28.82	21.82
Misc. Hazardous	-	12.30	3.38	2.42	6.5
Bulk Waste	-	154.78	196.62	126.68	102.8
Domestic Waste	-	319.26	323.02	344	333.86
Total	**237.51**	**809.14**	**929.86**	**727.4**	**611.72**

The figures above outline the recovery of recyclables for the 2006, 2007, 2008, 2009 and 2010 reporting periods. The figures show that the decline in waste volumes seen in 2009 has continued into 2010, across all waste streams. This was mainly as a result of reduced opening hours at the facility and the economic downturn.

4. Summary of Environmental Monitoring

Condition 8 and Schedule D of the Waste Licence specify the environmental monitoring requirements for the facility. The following sections discuss the results from the monitoring events during the monitoring period.

Environmental monitoring of the Surface water and emissions to sewer at the facility was carried out on the 3rd September and the 5th November 2010. Noise monitoring was carried out on the 30th December 2010. Dust monitoring was carried out twice during the reporting period; over a 30-day period during August and September and over a 30 day period during November and December. The environmental media monitored at the facility are as follows:

1. Surface Water
2. Emissions to Sewer
3. Air Quality – Dust
4. Noise

Unless otherwise specified, monitoring was carried out at those locations set out in Table D1.1.of the waste licence and in Figure J.1.1. Map of Environmental Monitoring Locations which is included in Appendix I.

4.1. Surface Water

Two surface water monitoring points are defined in Schedule D of the waste licence, SW1 and SW2. Both surface water sumps were dry during both of the sampling events.

4.2. Emissions to Sewer

4.2.1 Monitoring Locations

Sampling is taken from the point of emission to sewer (WW1) as shown on Figure J.1.1. Map of Environmental Monitoring Locations. WW1 was dry during the September sampling event.

4.2.2. Monitoring Parameters

The samples were analysed for the parameters listed in Table D.5.1 in the waste licence. The results are presented in Table 4.2.

Table 4.2. Monitoring Results for WW1

	05/11/10
pH	7.78
Biochemical Oxygen Demand (mg/l)	36.7
Chemical Oxygen Demand (mg/l)	84.7
Total Suspended Solids (mg/l)	36
Fats, Oils & Grease (mg/l)	3.62
Total Phosphorous (mg/l)	1.37
Total Nitrogen (mg/l)	7.66
Total Oxidised Nitrogen (mg/l)	

4.2.3. Interpretation of Results

pH, COD and fats, oils and grease remained similar to the previous year.

The wastewater from the site will continue to be monitored and analysed for these parameters on a bi-annual basis in 2011.

4.3. Dust

4.3.1. Monitoring Locations

Dust monitoring was carried out at four locations in accordance with Schedule D of the licence. These locations are shown on Figure J.1.1. Map of Environmental Monitoring Locations. Two of these monitoring points are on the site boundary and two are located in the neighbouring road maintenance yard.

4.3.2. Monitoring Parameters

Bergerhoff gauges were used to determine total dust deposition. Four gauges were set up so that the dust jars were at a height of at least 1.5m above the ground and the jars were set in place during the monthly monitoring events.

4.3.3. Monitoring Results

The results for total dust deposition are presented in Table 4.3.

Table 4.3. Monthly Dust Deposition Results

		D1	D2	D3	D4
From	To	mg/m^2/d	mg/m^2/d	mg/m^2/d	mg/m^2/d
03/08/10	03/09/10	131	145	25.5	102
05/11/10		Dust jars broken			

4.3.4. Interpretation of Results

The dust deposition levels at all monitoring points are below the mean daily dust deposition limit as set out in Schedule C.2 of the waste licence for the facility (350mg/m^2/d).

4.4. Noise

4.4.1. Monitoring Parameters

As per Schedule D of the waste licence, the annual noise survey was carried out on the 30th December 2010 when the conditions were found to be suitable. Noise monitoring was undertaken at the four locations as shown on Figure J.1.1. Map of Environmental Monitoring Locations.

Noise monitoring was carried out during the day between the hours of 12:00 and 15:30 for 30 minute intervals at each location. No night time noise monitoring is required at the facility. All measurements were taken in accordance with ISO 1996 (Description and Measurement of Environmental Noise) and the EPA Environmental Noise Survey Guidance Document.

The survey was carried out using a Brüel and Kjær 2250 Type 1 Sound Level Meter (SLM) with an outdoor microphone unit Type 4198.

The instrument was calibrated prior to commencing the survey using the recommended calibration procedure and a known pure tone noise source. The unit was again calibrated on completion of the survey to record drift during the course of the day. Drift is normally associated with battery fade and temperature. The unit had not drifted.

Good measurements require calm conditions to avoid spurious effects on the microphone, particularly at low frequencies. An average wind speed of less than 5 m/s is the preferred limit when noise measurements are being taken, with 7 m/s an upper limit. Weather conditions during the monitoring were dry, bright with a wind speed of less than 5m/s for the entire period.

4.4.2. Monitoring Locations

Monitoring was conducted at four locations as specified in the waste licence. The locations are shown on Figure J.1.1. Map of Environmental Monitoring Locations and summarised in Table 4.4

Table 4.4. Noise Monitoring Locations

Monitoring Location	Description
N1	Located on the south western boundary of the facility
N2	Located just to the east of the facility in the grounds of the adjacent quarry
S1	Located in a housing estate northwest of the facility
S2	Located to the west of the facility adjacent to the access road

4.4.4. Monitoring Results

Table 4.5. Noise Monitoring Results

Location	Date	Time	L_{Aeq}	L_{AF10}	L_{AF90}	Source of Noise
N1	30/12/2010	12.19	56	57.6	42.4	The dominant noise on site was traffic entering and exiting the CA Site. Very busy at the time of measurement. On site noise from the general activities at the CA Site.
N2	30/12/2010	12.57	44.8	45.5	39	Activities in the CA site, bird song, airplane and police sirens could be heard in the background.
S1	30/12/2010	14.34	48.4	50.8	40.9	Dominant noise is general residential noise e.g cars going up and down the residential street. Background noise is coming from the CA site, bird song and traffic on the N78.
S2	30/12/2010	13.39	47.4	49.1	41.5	Background noise is coming from traffic on the N78 and bird song.

4.4.5. Interpretation of Results

The noise levels of N2, N3 and N4 were within the noise emission limits. At N1 the noise level was 56 dB(A). During the time of monitoring the CA site was very busy. This monitoring point is located beside the entrance/exit of the site.

No tonal element was present in the noise data at any of the locations.

4.4.6. Assessment of Tonal Components

All measurements were subject to a one-third octave band analysis to identify tonal components within the noise measured and the results of the analysis are presented below. No tonal element was present in the noise data analysed.

One-Third Octave Band Analysis

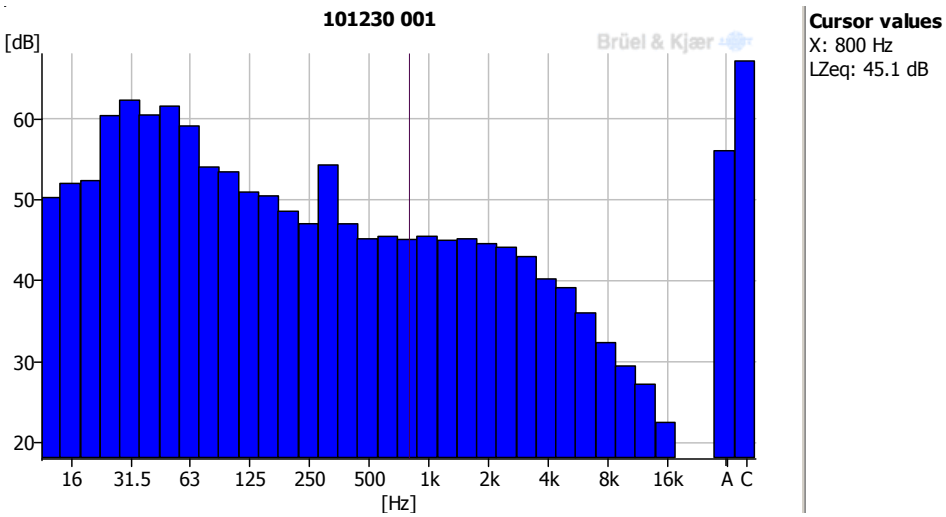


Figure 4.10 Noise Location N1 1/3 Octave Band Analysis

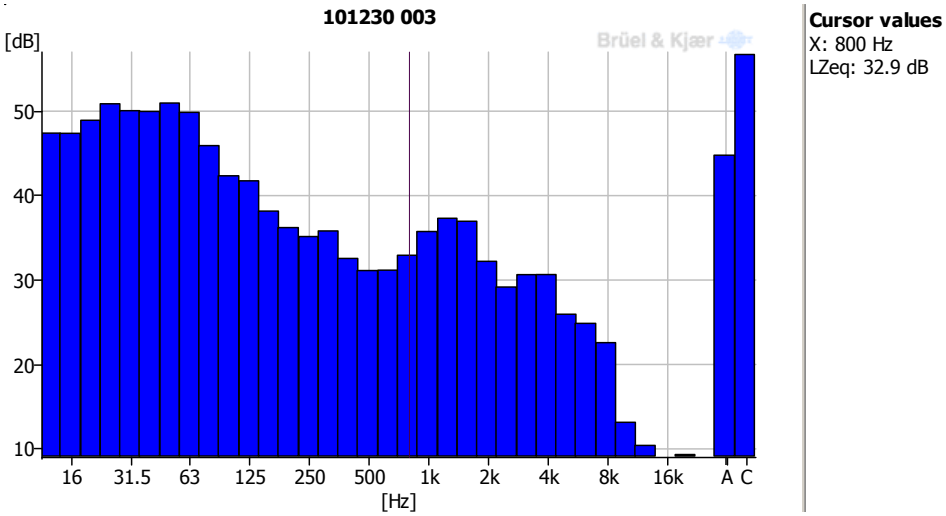


Figure 4.11 Noise Location N2 1/3 Octave Band Analysis

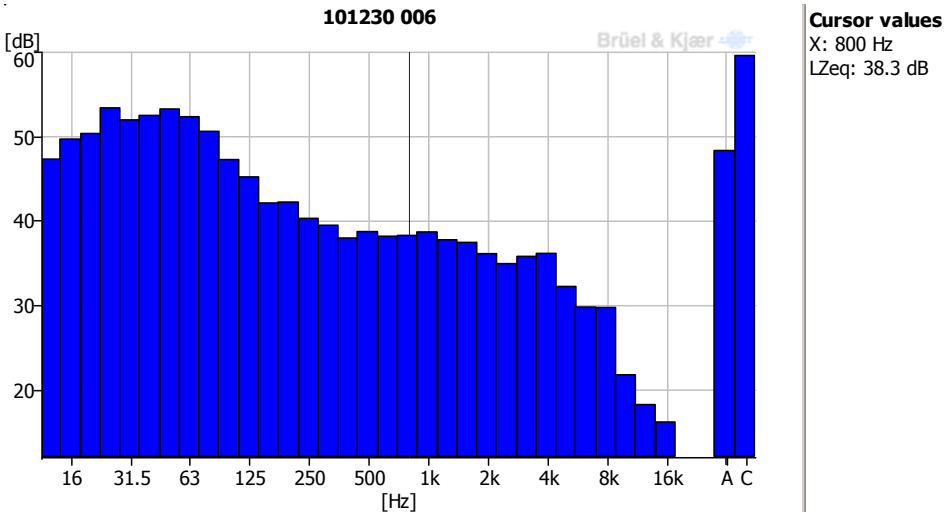


Figure 4.12 Noise Location S1 1/3 Octave Band Analysis

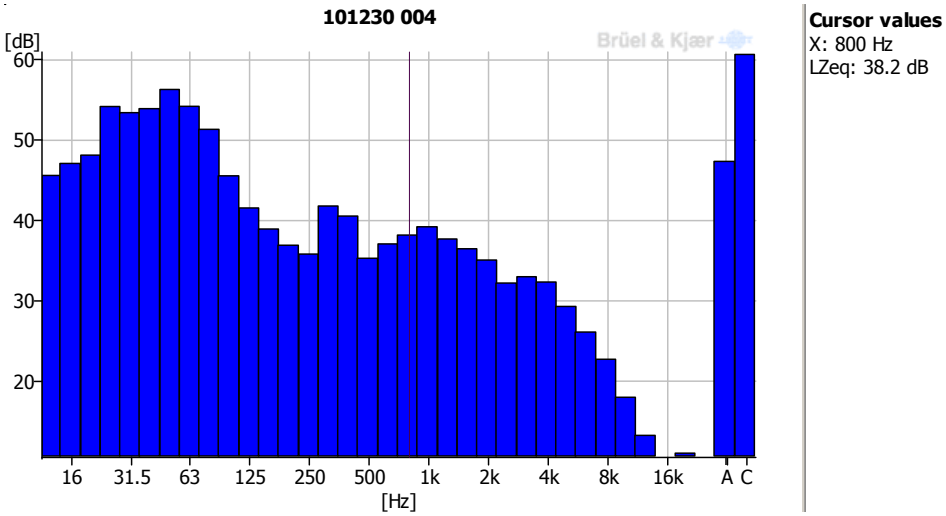


Figure 4.13 Noise Location S2 1/3 Octave Band Analysis

4.5. Summary

This report presents the monitoring results from the Athy Civic Amenity Centre, in compliance with the requirements of EPA Waste Licence Reg. No. W0175-01.

Monitoring of the environmental media, as discussed above, indicates that activities at the facility are not having a significant impact on the surrounding environment. The next monitoring report is due in 2011.

5. Site Development Works

5.1 Site Development Works During 2010

5.1.1. Civic Waste Facility

The Civic Amenity Site opened in August 2005 and has been maintained to a high standard by Kildare County Council.

No site development works were carried out during 2010

5.2. Proposed Development Works for 2011

Plans for the construction of a bunded shed have been submitted to the Agency and are awaiting approval.

6. Environmental Objectives and Targets

In compliance with Condition 2.3 of the waste licence, an Environmental Management System (EMS) has been established for the facility.

The EMS includes the timescale for achieving the objectives and targets, and the designation of responsibility for achieving the objectives and targets.

6.1. Proposed Objectives and Targets

The objectives and targets proposed for 2011 are listed below.

Objective 1. **Operate facility in order to maintain the high standards set and promote continual environmental improvement.**
It is the objective of Kildare County Council to comply with the conditions of the EPA waste licence for the facility and promote continual environmental improvement. This will ensure compliance with all licence conditions and, in return, improve the management and operation of the facility. The targets are tabulated below with a target date for the implementation of the goal.

	Target	Responsible
1	Review training schedule of each staff member & identify training needs	Facility Manager
2	Implement the EMS	Facility Manager
3	Continue programme of regular inspections	Facility Manager
4	Continue to maintain the appropriate records at the facility in Accordance with Condition 11 of the waste licence	Facility Manager

Responsible Personnel
The facility manager is responsible for achieving this objective.

Timetable for Achievement of Tasks

Target	2011											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1												
2												
3												
4												

Objective 2. **Maximise recovery/recycling within the civic amenity and site office.**
It is the objective of the licensee to maximise the recycling of waste materials at the facility and site office.

The objective will be achieved by carrying out the following tasks:

	Target	Responsible
1	Promote recycling in-house within the site office	Facility Manager
2	Continue effort to source new markets for recyclable products	Facility Manager
3	Increase public awareness of the facility through advertising	Facility Manager

Responsible Personnel
The facility manager is responsible for achieving this objective.

Timetable for Achievement of Tasks

Target	2011											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1												
2												
3												

Objective 3. **Maximise energy efficiency within the site office.**
It is the objective of the licensee to constantly improve and maintain energy efficiency measures to maximise efficiency within the site office.

This objective will be achieved by carrying out the following tasks:

	Target	Responsible
1	Promote energy awareness in-house amongst all staff	Facility Manager
2	Any new appliance purchased for use in the site office will have a high energy rating	Facility Manager
3	All lights and appliances will, where possible, be powered off at night and over weekends. Energy efficient light bulbs will be utilised where possible	Facility Manager

Responsible Personnel
The facility manager is responsible for achieving this objective.

Timetable for Achievement of Tasks

Target	2011											
	Jan	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
1												
2												
3												

Objective 4. **Minimisation of complaints**
It is the objective of the licensee to maintain the low level of complaints received regarding the operation of the facility. No complaints were received during 2010 and the licensee aims to repeat this in 2011. By maintaining good housekeeping procedures and ensuring the site is maintained in a proper manner, this will ensure the minimisation of complaints. An open and effective communications programme at the facility will continue to be used to ensure that any complaints received at the facility are dealt with and addressed in so far as possible to the satisfaction of the complainant.

	Target	Responsible
1	Effectively deal with complaints	Facility Manager
2	Formulate action plans for next period to minimise complaints	Facility Manager
3	Maintain the high standard of housekeeping practises at the facility	Facility Manager

Responsible Personnel
The facility manager is responsible for achieving this objective.

Timetable for Achievement of Tasks

Target	2011											
	Jan	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
1												
2												
3												

7. Miscellaneous

7.1. New Procedures Developed During 2010

No new procedures were implemented during 2010.

7.2. Incidents and Complaints Summary

The facility manager records all site incidents and complaints on a register, which is held at the site office.

There were no incidents or complaints recorded at the facility during 2010.

7.3. Review of Nuisance Controls

Athy Civic Amenity Centre is maintained to a very high standard by Kildare County Council. All loose litter at the site and on the site access road is removed by site staff. All vehicles delivering or removing waste to or from the facility are appropriately covered to minimise littering.

7.4. Financial Provision

Kildare County Council pays to the Agency an annual contribution of €7,732 towards the cost of monitoring the facility, or otherwise in performing any functions in relation to the activity.

7.5. Energy Consumption and Generation

The figures for energy use in 2010 are as follows:

- Electricity: 73,400 (approximate)
- Fuel: 1,500 litres (approximate)
- Water: 1000 m^3 (approximate)

Water usage is not metered, so consumption is approximate. The electrical usage is also estimated.

7.6. Management and Staffing Structure

This is included in Appendix III

7.7. Report on Staff Training

Training completed by staff in 2010 is as follows:

Marie Kelly completed the Fás Waste Management Course

Appendix I

Drawings

Appendix II

Monitoring Results

ALcontrol Laboratories

Unit 18A
Rosemount Business Park
Ballycoolin
Dublin 11
Tel : (0035) 3188 29893

Attention: Claire McLaughlin

CERTIFICATE OF ANALYSIS

Date:	15 September 2010		
Customer:	D_KILCC_NAS-4		
Sample Delivery Group (SDG):	100903-76	**Report No.:**	96878
Your Reference:	SILLIOTHILL, LANDFILL		
Location:	SILLIOTHILL, LANDFILL		

We received 4 samples on Friday September 03, 2010 and 4 of these samples were scheduled for analysis which was completed on Wednesday September 15, 2010. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Asbestos testing - we are not accredited for screening soil samples for asbestos fibres. We are only accredited to identify asbestos fibres in bulk material (ACM).

Approved By:

Iain Swinton

Operations Director - Land UK & IrelandAlcontrol Laboratories is a trading division of ALcontrol UK LimitedRegistered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No. 4057291.

ALcontrol Laboratories Analytical Services

SDG:	100903-76	**Customer:**	Kildare County Council
Job:	D_KILCC_NAS-4	**Attention:**	Claire McLaughlin
Client Reference:	SILLIOTHILL, LANDFILL	**Order No.:**	
Location:	SILLIOTHILL, LANDFILL	**Report No:**	96878

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
2042990	ACA D1			03/09/2010
2042996	ACA D2			03/09/2010
2043001	ACA D3			03/09/2010
2043005	ACA D4			03/09/2010

Only received samples which have had analysis scheduled will be shown on the following pages.

Validated

ALcontrol Laboratories Analytical Services

SDG:	100903-76	**Customer:**	Kildare County Council
Job:	D_KILCC_NAS-4	**Attention:**	Claire McLaughlin
Client Reference:	SILLIOTHILL, LANDFILL	**Order No.:**	
Location:	SILLIOTHILL, LANDFILL	**Report No:**	96878

LIQUID

Results Legend			Lab Sample No(s)	2042990	2042996	2043001	2043005
X Test			Customer Sample Ref.	ACA D1	ACA D2	ACA D3	ACA D4
N No Determination Possible			AGS Ref.				
			Depth (m)				
			Container	2l glass bottle	2l glass bottle	2l glass bottle	2l glass bottle
Dust in Water	All	NDPs: 0 Tests: 4		X	X	X	X

Validated

ALcontrol Laboratories Analytical Services

SDG:	100903-76	**Customer:**	Kildare County Council
Job:	D_KILCC_NAS-4	**Attention:**	Claire McLaughlin
Client Reference:	SILLIOTHILL, LANDFILL	**Order No.:**	
Location:	SILLIOTHILL, LANDFILL	**Report No:**	96878

Test Completion Dates

Lab Sample No(s)	2042990	2042996	2043001	2043005
Customer Sample Ref.	ACA D1	ACA D2	ACA D3	ACA D4
AGS Ref.				
Depth				
Type	LIQUID	LIQUID	LIQUID	LIQUID
Dust in Water	15/09/2010	15/09/2010	15/09/2010	15/09/2010

Validated

ALcontrol Laboratories Analytical Services

SDG:	100903-76	**Customer:**	Kildare County Council
Job:	D_KILCC_NAS-4	**Attention:**	Claire McLaughlin
Client Reference:	SILLIOTHILL, LANDFILL	**Order No.:**	
Location:	SILLIOTHILL, LANDFILL	**Report No:**	96878

Results Legend	
#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	Depth (m)	Sample Type	Date Sampled	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
			ACA D1		Water(GW/SW)	03/09/2010	03/09/2010	100903-76	2042990	
Dust, Total	<0.026 mg/m2/day	TM253	131							
			ACA D2		Water(GW/SW)	03/09/2010	03/09/2010	100903-76	2042996	
Dust, Total	<0.026 mg/m2/day	TM253	145							
			ACA D3		Water(GW/SW)	03/09/2010	03/09/2010	100903-76	2043001	
Dust, Total	<0.026 mg/m2/day	TM253	25.5							
			ACA D4		Water(GW/SW)	03/09/2010	03/09/2010	100903-76	2043005	
Dust, Total	<0.026 mg/m2/day	TM253	102							

Table of Results - Appendix

SDG Number : 100903-76 **Client :** D_KILCC_NAS **Client Ref :** SILLIOTHILL, LANDFILL

REPORT KEY

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10-7

NDP	No Determination Possible	#	ISO 17025 Accredited	*	Subcontracted Test	M	MCERTS Accredited
NFD	No Fibres Detected	PFD	Possible Fibres Detected	»	Result previously reported (Incremental reports only)	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
TM253	Dust is collected either using a "Frisbee" collector this is the "Stockholm" method or using a "jam jar" collector, this is the "Berghoff" method.	The Determination of Dust		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

APPENDIX

APPENDIX

1. *Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA Leach tests, flash point, ammonium as NH_4 by the BRE method, VOC TICS, SVOC TICS, TOF-MS SCAN/SEARCH and TOF-MS TICS.*
2. *Samples will be run in duplicate upon request, but an additional charge may be incurred.*
3. *If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for both soil jars, tubs and volatile jars. All waters and vials will be discarded 10 days after the analysis is completed (e-mailed). All material removed during an asbestos containing material screen and analysed for the presence of asbestos will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.*
4. *With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.*
5. *We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.*
6. *When requested, the individual sub sample scheduled will be screened in house for the presence of large asbestos containing material fragments/pieces. If no asbestos containing material is found this will be reported as 'no asbestos containing material detected'. If asbestos containing material is detected it will be removed and analysed by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If asbestos containing material is present no further analysis will be undertaken. At no point is the fibre content of the soil sample determined.*
7. *If no separate volatile sample is supplied by the client, the integrity of the data may be compromised if the laboratory is required to create a sub-sample from the bulk sample – similarly, if a headspace or sediment is present in the volatile sample. This will be flagged up as an invalid VOC on the test schedule or recorded on the log sheet.*
8. *If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.*
9. *NDP – No determination possible due to insufficient/unsuitable sample.*
10. *Metals in water are performed on a filtered sample, and therefore represent dissolved metals – total metals must be requested separately.*
11. *A table containing the date of analysis for each parameter is not routinely included with the report, but is available upon request.*
12. *Results relate only to the items tested*
13. ***Surrogate recoveries** – Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 – 130 %.*
14. ***Product analyses** – Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.*
15. *Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).*
16. *Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 14).*
17. *Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.*
18. *Our MCERTS accreditation for PAHs by GCMS applies to all product types apart from Kerosene, where naphthalene only is not accredited.*
19. *In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.*
19. *Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.*
20. *For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.*
21. *For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.*
22. *We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials – whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.*
23. *Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C4 – C10 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.*

Last updated 1 April 2010

LIQUID MATRICES EXTRACTION SUMMARY

ANALYSIS	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
PAH MS	*HEXANE*	*STIRRED EXTRACTION (STIR-BAR)*	*GC MS*
EPH	*HEXANE*	*STIRRED EXTRACTION (STIR-BAR)*	*GC FID*
EPH CWG	*HEXANE*	*STIRRED EXTRACTION (STIR-BAR)*	*GC FID*
MINERAL OIL	*HEXANE*	*STIRRED EXTRACTION (STIR-BAR)*	*GC FID*
PCB 7 CONGENERS	*HEXANE*	*STIRRED EXTRACTION (STIR-BAR)*	*GC MS*
PCB TOTAL	*HEXANE*	*STIRRED EXTRACTION (STIR-BAR)*	*GS MS*
SVOC	*DCM*	*LIQUID/LIQUID SHAKE*	*GC MS*
FREE SULPHUR	*DCM*	*SOLID PHASE EXTRACTION*	*HPLC*
PEST OCP/OPP	*DCM*	*LIQUID/LIQUID SHAKE*	*GC MS*
TRIAZINE HERBS	*DCM*	*LIQUID/LIQUID SHAKE*	*GC MS*
PHENOLS MS	*DCM*	*SOLID PHASE EXTRACTION*	*GC MS*
TPH by INFRA RED (IR)	*TCE*	*LIQUID/LIQUID EXTRACTION*	*HPLC*
MINERAL OIL by IR	*TCE*	*LIQUID/LIQUID EXTRACTION*	*HPLC*
GLYCOLS	*NONE*	*DIRECT INJECTION*	*GC FID*

SOLID MATRICES EXTRACTION SUMMARY

ANALYSIS	D/C OR WET	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
Solvent Extractable Matter	*D&C*	*DCM*	*SOXTHERM*	*GRAVIMETRIC*
Cyclohexane Ext. Matter	*D&C*	*CYCLOHEXANE*	*SOXTHERM*	*GRAVIMETRIC*
Thin Layer Chromatography	*D&C*	*DCM*	*SOXTHERM*	*IATROSCAN*
Elemental Sulphur	*D&C*	*DCM*	*SOXTHERM*	*HPLC*
Phenols by GCMS	*WET*	*DCM*	*SOXTHERM*	*GC-MS*
Herbicides	*D&C*	*HEXANE:ACETONE*	*SOXTHERM*	*GC-MS*
Pesticides	*D&C*	*HEXANE:ACETONE*	*SOXTHERM*	*GC-MS*
EPH (DRO)	*D&C*	*HEXANE:ACETONE*	*END OVER END*	*GC-FID*
EPH (Min oil)	*D&C*	*HEXANE:ACETONE*	*END OVER END*	*GC-FID*
EPH (Cleaned up)	*D&C*	*HEXANE:ACETONE*	*END OVER END*	*GC-FID*
EPH CWG by GC	*D&C*	*HEXANE:ACETONE*	*END OVER END*	*GC-FID*
PCB tot / PCB con	*D&C*	*HEXANE:ACETONE*	*END OVER END*	*GC-MS*
Polyaromatic Hydrocarbons (MS)	*WET*	*HEXANE:ACETONE*	*Microwave TM218.*	*GC-MS*
C8-C40 (C6-C40)EZ Flash	*WET*	*HEXANE:ACETONE*	*SHAKER*	*GC-EZ*
Polyaromatic Hydrocarbons Rapid GC	*WET*	*HEXANE:ACETONE*	*SHAKER*	*GC-EZ*
Semi Volatile Organic Compounds	*WET*	*DCM:ACETONE*	*SONICATE*	*GC-MS*

Last updated 1 April 2010

Identification of Asbestos in Bulk Materials

The results for asbestos identification for soil samples are obtained from possible Asbestos Containing Material, removed during the 'Screening of soils for Asbestos Containing Materials', which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Visual Estimation Of Fibre Content.

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -

Trace – Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in MDHS 100.

The identification of asbestos containing materials falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

Asbestos Type	***Common Name***
Chrysotile	*White Asbestos*
Amosite	*Brown Asbestos*
Crocidolite	*Blue Asbestos*
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tr	

ALcontrol Laboratories

Unit 18A
Rosemount Business Park
Ballycoolin
Dublin 11
Tel : (0035) 3188 29893

Attention: *Claire McLaughlin*

CERTIFICATE OF ANALYSIS

Date:	*11 November 2010*		
Customer:	*D_KILCC_NAS-14*		
Sample Delivery Group (SDG):	*101105-63*	***Report No.:***	*103132*
Your Reference:	*Water Sample 05/11/10*		
Location:	*Water Sample 05/11/10*		

We received 1 sample on Friday November 05, 2010 and 1 of these samples were scheduled for analysis which was completed on Thursday November 11, 2010. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Asbestos testing - we are not accredited for screening soil samples for asbestos fibres. We are only accredited to identify asbestos fibres in bulk material (ACM).

Approved By:

Iain Swinton

Business Director - Land, UK & Ireland

UKAS TESTING
1291

Validated

ALcontrol Laboratories Analytical Services

SDG:	101105-63	**Customer:**	Kildare County Council
Job:	D_KILCC_NAS-14	**Attention:**	Claire McLaughlin
Client Reference:	Water Sample 05/11/10	**Order No.:**	400273935
Location:	Water Sample 05/11/10	**Report No:**	103132

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
2353005	WW1			05/11/2010

Only received samples which have had analysis scheduled will be shown on the following pages.

SDG:	101105-63	**Customer:**	Kildare County Council
Job:	D_KILCC_NAS-14	**Attention:**	Claire McLaughlin
Client Reference:	Water Sample 05/11/10	**Order No.:**	400273935
Location:	Water Sample 05/11/10	**Report No:**	103132

LIQUID

Results Legend

X — Test

N — No Determination Possible

			Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Container	
			2353005	WW1			1l glass bottle (D)	PLAS BOT (D)
BOD True Total	All	NDPs: 0 Tests: 1						X
COD Unfiltered	All	NDPs: 0 Tests: 1						X
pH Value	All	NDPs: 0 Tests: 1						X
Total Metals by ICP-MS	All	NDPs: 0 Tests: 1						X
Total Nitrogen	All	NDPs: 0 Tests: 1						X
Total Suspended Solids	All	NDPs: 0 Tests: 1						X
TPH by IR Oils and Greases	All	NDPs: 0 Tests: 1					X	

Validated

ALcontrol Laboratories Analytical Services

SDG:	101105-63	**Customer:**	Kildare County Council
Job:	D_KILCC_NAS-14	**Attention:**	Claire McLaughlin
Client Reference:	Water Sample 05/11/10	**Order No.:**	400273935
Location:	Water Sample 05/11/10	**Report No:**	103132

Test Completion Dates

Lab Sample No(s)	**2353005**
Customer Sample Ref.	WW1
AGS Ref.	
Depth	
Type	**LIQUID**
BOD True Total	11/11/2010
COD Unfiltered	06/11/2010
pH Value	08/11/2010
Total Metals by ICP-MS	11/11/2010
Total Nitrogen	09/11/2010
Total Suspended Solids	08/11/2010
TPH by IR Oils and Greases	11/11/2010

Validated

ALcontrol Laboratories Analytical Services

SDG:	101105-63	**Customer:**	Kildare County Council
Job:	D_KILCC_NAS-14	**Attention:**	Claire McLaughlin
Client Reference:	Water Sample 05/11/10	**Order No.:**	400273935
Location:	Water Sample 05/11/10	**Report No:**	103132

Results Legend	
#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	WW1
			Depth (m)	
			Sample Type	Water(GW/SW)
			Date Sampled	05/11/2010
			Date Received	05/11/2010
			SDG Ref	101105-63
			Lab Sample No.(s)	2353005
			AGS Reference	
Suspended solids, Total	<2 mg/l	TM022		36 #
BOD, unfiltered	<1 mg/l	TM045		36.7 #
COD, unfiltered	<7 mg/l	TM107		84.7 #
Phosphorus (tot.unfilt)	<20 µg/l	TM191		1370 #
Nitrogen, Total	<1 mg/l	TM212		7.66
TPH / Oil & Greases	<1 mg/l	TM235		3.62 #
pH	<1 pH Units	TM256		7.78 #

Table of Results - Appendix

SDG Number : 101105-63 **Client :** D_KILCC_NAS **Client Ref :** Water Sample 05/11/10

REPORT KEY

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10-7

NDP	No Determination Possible	#	ISO 17025 Accredited	*	Subcontracted Test	M	MCERTS Accredited
NFD	No Fibres Detected	PFD	Possible Fibres Detected	»	Result previously reported (Incremental reports only)	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
TM022	Method 2540D, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part120 1981;BS EN 872	Determination of total suspended solids in waters		
TM045	MEWAM BOD5 2nd Ed.HMSO 1988 / Method 5210B, AWWA/APHA, 20th Ed., 1999; SCA Blue Book 130	Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids		
TM107	ISO 6060-1989	Determination of Chemical Oxygen Demand using COD Dr Lange Kit		
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS		
TM191	Standard Methods for the examination of waters and wastewaters 16th Edition, ALPHA, Washington DC, USA. ISBN 0-87553-131-8.	Determination of Unfiltered Metals in Water Matrices by ICP-MS		
TM212	SO/TR 11905-2: 1997. Water quality – Determination of nitrogen –Part 2:Determination of bound nitrogen, after combustion and oxidation to nitrogen dioxide, chemiluminescence detection.	Determination of Total Nitrogen by High Temperature Catalytic Oxidation followed by Chemiluminescence Detection		
TM235	The Determination of Hydrocarbon Oils in Waters by Solvent Extraction, Infra red Absorption and Gravimetry 1983, HMSO, London	Determination of Total Petroleum Hydrocarbons (TPH) in Waters By Infra-Red Spectroscopy		
TM256	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4.	Determination of pH in Water and Leachate using the GLpH pH Meter		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

APPENDIX

APPENDIX

1. *Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA Leach tests, flash point, ammonium as NH_4 by the BRE method, VOC TICS, SVOC TICS, TOF-MS SCAN/SEARCH and TOF-MS TICS.*
2. *Samples will be run in duplicate upon request, but an additional charge may be incurred.*
3. *If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for both soil jars, tubs and volatile jars. All waters and vials will be discarded 10 days after the analysis is completed (e-mailed). All material removed during an asbestos containing material screen and analysed for the presence of asbestos will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.*
4. *With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.*
5. *We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.*
6. *When requested, the individual sub sample scheduled will be screened in house for the presence of large asbestos containing material fragments/pieces. If no asbestos containing material is found this will be reported as 'no asbestos containing material detected'. If asbestos containing material is detected it will be removed and analysed by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If asbestos containing material is present no further analysis will be undertaken. At no point is the fibre content of the soil sample determined.*
7. *If no separate volatile sample is supplied by the client, the integrity of the data may be compromised if the laboratory is required to create a sub-sample from the bulk sample – similarly, if a headspace or sediment is present in the volatile sample. This will be flagged up as an invalid VOC on the test schedule or recorded on the log sheet.*
8. *If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.*
9. *NDP – No determination possible due to insufficient/unsuitable sample.*
10. *Metals in water are performed on a filtered sample, and therefore represent dissolved metals – total metals must be requested separately.*
11. *A table containing the date of analysis for each parameter is not routinely included with the report, but is available upon request.*
12. *Results relate only to the items tested*
13. ***Surrogate recoveries** – Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 – 130 %.*
14. ***Product analyses** – Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.*
15. *Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).*
16. *Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 14).*
17. *Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.*
18. *Our MCERTS accreditation for PAHs by GCMS applies to all product types apart from Kerosene, where naphthalene only is not accredited.*
19. *In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.*
19. *Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.*
20. *For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.*
21. *For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.*
22. *We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials – whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.*
23. *Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C4 – C10 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.*

Last updated 1 April 2010

LIQUID MATRICES EXTRACTION SUMMARY

ANALYSIS	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
PAH MS	*HEXANE*	*STIRRED EXTRACTION (STIR-BAR)*	*GC MS*
EPH	*HEXANE*	*STIRRED EXTRACTION (STIR-BAR)*	*GC FID*
EPH CWG	*HEXANE*	*STIRRED EXTRACTION (STIR-BAR)*	*GC FID*
MINERAL OIL	*HEXANE*	*STIRRED EXTRACTION (STIR-BAR)*	*GC FID*
PCB 7 CONGENERS	*HEXANE*	*STIRRED EXTRACTION (STIR-BAR)*	*GC MS*
PCB TOTAL	*HEXANE*	*STIRRED EXTRACTION (STIR-BAR)*	*GS MS*
SVOC	*DCM*	*LIQUID/LIQUID SHAKE*	*GC MS*
FREE SULPHUR	*DCM*	*SOLID PHASE EXTRACTION*	*HPLC*
PEST OCP/OPP	*DCM*	*LIQUID/LIQUID SHAKE*	*GC MS*
TRIAZINE HERBS	*DCM*	*LIQUID/LIQUID SHAKE*	*GC MS*
PHENOLS MS	*DCM*	*SOLID PHASE EXTRACTION*	*GC MS*
TPH by INFRA RED (IR)	*TCE*	*LIQUID/LIQUID EXTRACTION*	*HPLC*
MINERAL OIL by IR	*TCE*	*LIQUID/LIQUID EXTRACTION*	*HPLC*
GLYCOLS	*NONE*	*DIRECT INJECTION*	*GC FID*

SOLID MATRICES EXTRACTION SUMMARY

ANALYSIS	D/C OR WET	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
Solvent Extractable Matter	*D&C*	*DCM*	*SOXTHERM*	*GRAVIMETRIC*
Cyclohexane Ext. Matter	*D&C*	*CYCLOHEXANE*	*SOXTHERM*	*GRAVIMETRIC*
Thin Layer Chromatography	*D&C*	*DCM*	*SOXTHERM*	*IATROSCAN*
Elemental Sulphur	*D&C*	*DCM*	*SOXTHERM*	*HPLC*
Phenols by GCMS	*WET*	*DCM*	*SOXTHERM*	*GC-MS*
Herbicides	*D&C*	*HEXANE:ACETONE*	*SOXTHERM*	*GC-MS*
Pesticides	*D&C*	*HEXANE:ACETONE*	*SOXTHERM*	*GC-MS*
EPH (DRO)	*D&C*	*HEXANE:ACETONE*	*END OVER END*	*GC-FID*
EPH (Min oil)	*D&C*	*HEXANE:ACETONE*	*END OVER END*	*GC-FID*
EPH (Cleaned up)	*D&C*	*HEXANE:ACETONE*	*END OVER END*	*GC-FID*
EPH CWG by GC	*D&C*	*HEXANE:ACETONE*	*END OVER END*	*GC-FID*
PCB tot / PCB con	*D&C*	*HEXANE:ACETONE*	*END OVER END*	*GC-MS*
Polyaromatic Hydrocarbons (MS)	*WET*	*HEXANE:ACETONE*	*Microwave TM218.*	*GC-MS*
C8-C40 (C6-C40)EZ Flash	*WET*	*HEXANE:ACETONE*	*SHAKER*	*GC-EZ*
Polyaromatic Hydrocarbons Rapid GC	*WET*	*HEXANE:ACETONE*	*SHAKER*	*GC-EZ*
Semi Volatile Organic Compounds	*WET*	*DCM:ACETONE*	*SONICATE*	*GC-MS*

Last updated 1 April 2010

Identification of Asbestos in Bulk Materials

The results for asbestos identification for soil samples are obtained from possible Asbestos Containing Material, removed during the 'Screening of soils for Asbestos Containing Materials', which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Visual Estimation Of Fibre Content.

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -

Trace – Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in

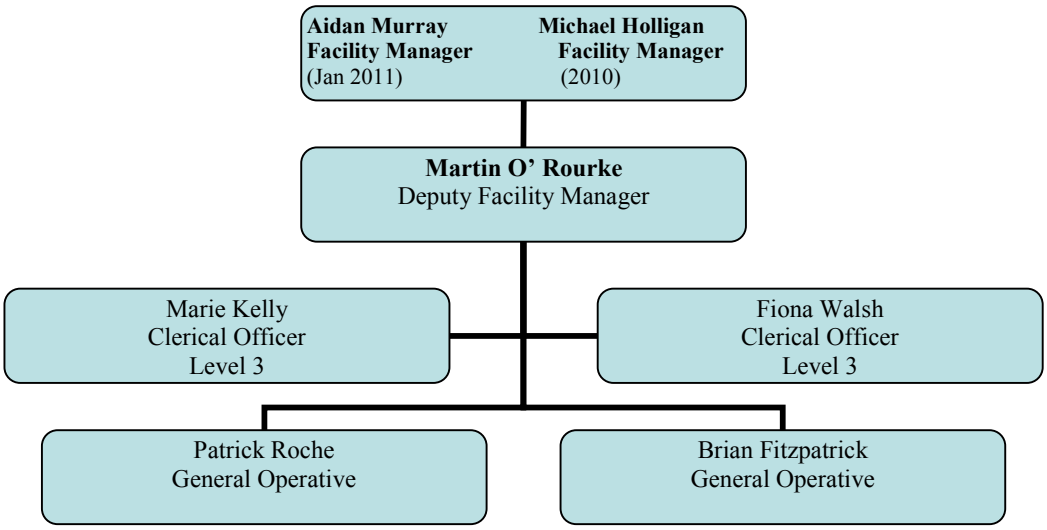
MDHS 100.

The identification of asbestos containing materials falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

Asbestos Type	***Common Name***
Chrysotile	*White Asbestos*
Amosite	*Brown Asbestos*
Crocidolite	*Blue Asbestos*
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Appendix III

Staff Structure


Aidan Murray
Facility Manager
(Jan 2011)
Michael Holligan
Facility Manager
(2010)
Martin O' Rourke
Deputy Facility Manager
Marie Kelly
Clerical Officer
Level 3
Fiona Walsh
Clerical Officer
Level 3
Patrick Roche
General Operative
Brian Fitzpatrick
General Operative

Environmental Protection Agency

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.12

REFERENCE YEAR	2010

1. FACILITY IDENTIFICATION

Parent Company Name	Kildare County Council
Facility Name	Athy Civic Amenity Centre
PRTR Identification Number	W0175
Licence Number	W0175-01

Waste or IPPC Classes of Activity

No.	class_name
3.12	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.11	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.13	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 concerned is produced.
4.11	Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.
4.12	Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule.
4.13	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 produced.
4.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.

Address 1	Gallowshill
Address 2	Athy
Address 3	Co Kildare
Address 4	
Country	Ireland
Coordinates of Location	-6.96599 52.9953
River Basin District	IESE
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Michael Holligan
AER Returns Contact Email Address	mholigan@kildarecoco.ie
AER Returns Contact Position	Manager
AER Returns Contact Telephone Number	045-980573
AER Returns Contact Mobile Phone Number	087-6469121
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	0
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
50.1	General
50.1	General

3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

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 ?	

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

* 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

* 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/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) 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) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill: Athy Civic Amenity Centre

Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Used: Method Code	Method Used: Designation or Description	Facility Total Capacity m3 per hour	
Total estimated methane generation (as per site model)	0.0				N/A	
Methane flared	0.0				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)	0.0				N/A	

4.2 RELEASES TO WATERS

Link to previous years emissions data

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this only concerns Releases from your facil

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT						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			
POLLUTANT						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			
POLLUTANT						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

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

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4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					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

* 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)

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					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/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

4.4 RELEASES TO LAND

Link to previous years emissions data

SECTION A : PRTR POLLUTANTS

RELEASES TO LAND					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
					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 POLLUTANT EMISSIONS (as required in your Licence)

RELEASES TO LAND					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/Year
					0.0	0.0	0.0

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

Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	20 03 01	No	436.66	mixed municipal waste	D15	C	Weighed	Onsite in Ireland	Oxigen Environmental,W0152	Robinhood Industrial Estate,Robinhood Rd,Ballymount,Dublin 22,Ireland		
Within the Country	20 02 01	No	21.82	Green Waste	D15	C	Weighed	Onsite in Ireland	Bord na Mona Plc,W198	Kilberry ,,,Athy,Kildare,Ireland		
Within the Country	15 01 01	No	14.98	paper and cardboard packaging	D15	C	Weighed	Onsite in Ireland	Irish Packaging Recycling T/A Panda Waste Services,WPR 021/2	Ballymount Rd,Walkinstown,.,Dublin 12,Ireland		
Within the Country	20 01 01	No	19.36	Newspaper & Magazines	D15	C	Weighed	Onsite in Ireland	Irish Packaging Recycling T/A Panda Waste Services,WPR 021/2	Ballymount Rd,Walkinstown,.,Dublin 12,Ireland		
Within the Country	15 01 07	No	14.62	Bottles	D15	C	Weighed	Onsite in Ireland	Rehab Glassco,WCP-DC 08-1150-01	Unit 4 Osberstown Business Park,Caragh Rd,Naas,Kildare,Ireland		
Within the Country	20 01 02	No	2.78	Flat Glass	D15	C	Weighed	Onsite in Ireland	Rehab Glassco,WCP-DC 08-1150-01	Unit 4 Osberstown Business Park,Caragh Rd,Naas,Kildare,Ireland		
Within the Country	20 01 40	No	20.66	Scrap Metal	D15	C	Weighed	Onsite in Ireland	Thorntons Recycling Centre,WCP DC 09-1190-01	Unit 52B Parkwest Business Park,.,.,Dublin 12,Ireland		
Within the Country	15 01 02	No	6.26	plastic packaging	D15	C	Weighed	Onsite in Ireland	Oxigen Environmental,W0152	Robinhood Industrial Estate,Robinhood Rd,Ballymount,Dublin 22,Ireland		
Within the Country	20 01 11	No	6.62	textiles	D15	C	Weighed	Onsite in Ireland	Textile Recycling,WPR 014/2	Glen Abbey Complex,Belgard Rd,Tallaght,Dublin 24,Ireland		
Within the Country	20 01 33	Yes	1.92	Batteries unsorted	D15	C	Weighed	Onsite in Ireland	ReturnBatt T/A Rilta Environmental Ltd,WCP Dc 09-1192-01	402 Greenogue Business Park,Rathcoole,Dublin,.,Ireland	The Recycling Village,WP 2007/20,Units 4 4A & 7 Tinure Business Park,Tinure,Monasterboice,Louth,Ireland	Units 4 4A & 7 Tinure Business Park,Tinure,Monasterboice,Louth,Ireland
Within the Country	13 02 04	Yes	0.88	Waste Mineral oil	D15	C	Weighed	Onsite in Ireland	Enva Ireland T/A Enva,WCP DC 08-1116-01	Clonmainham Industrial Estate,Portlaoise,Laois,.,Ireland	Enva ,W184-1,Clonmainham Industrial Estate,Portlaois,Laois,.,Ireland	Clonmainham Industrial Estate,Portlaois,Laois,.,Ireland
Within the Country	20 01 35	Yes	56.44	Electrical	D15	C	Weighed	Onsite in Ireland	Rehab Enterprises ,WPR 033/2	Unit 77,Broomhill Rd,Tallaght,Dublin 24,Ireland	KMK Recycling Ltd,W0113-03,Cappincur Ind Est,Daingean Rd,Tullamore ,Offaly,Ireland	Cappincur Ind Est,Daingean Rd,Tullamore ,Offaly,Ireland
Within the Country	17 08 02	No	6.18	Gypsum	D15	C	Weighed	Onsite in Ireland	Irish Packaging Recycling T/A Panda Waste Services,WPR 021/2	Ballymount Rd,Walkinstown,.,Dublin 12,Ireland		
Within the Country	**20 01 27**	**Yes**	6.5	Household Hazardous	D15	C	Weighed	Onsite in Ireland	Indaver Ireland,W036/2	Tolka Quay Rd,Dublin Port,.,Dublin 1,Ireland	Indaver Ireland,W036/2,Tolka Quay Rd,Dublin Port,.,Dublin 1,Ireland	Tolka Quay Rd,Dublin Port,.,Dublin 1,Ireland
Within the Country	20 01 21	Yes	0.1	Fluorescent Tubes	D15	C	Weighed	Onsite in Ireland	The Recycling Village,WP 200/20	Tinure Business Park,Tinure ,Monasterboice,Louth,Ireland	The Recycling Village,WP 2007/20,Units 4 4A & 7 Tinure Business Park,Tinure,Monasterboice,Louth,Ireland	Units 4 4A & 7 Tinure Business Park,Tinure,Monasterboice,Louth,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