2010

Annual Environmental Report

For

Barna Waste T/A Joe Mc Loughlin Waste Disposal Limited

Waste Licence no. W0216-01

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Introduction

This Annual Environmental Report (AER) has been prepared in accordance with the requirements of condition 11.7 of Waste Licence ref. no. W0216-01.Joe Mc Loughlin Waste Disposal was issued with a waste licence on 24th of February 2006 for the operation of their waste transfer facility in Ardcolum, Drumshanbo, Co. Leitrim the licence was transferred to Barna Waste, on 28th of October 2009. The facility is licensed to handle 24,900 tonnes of waste per annum.

1.0 Reporting Period

This report covers the time period from the 1st of January 2010 to the 31st of December 2010. This is the Fifth Annual Environmental Report (AER) for submission to the EPA. This report contains all the relevant information as detailed in Schedule F of the Waste Licence.

2.0 Waste Activities Carried out at the Facility

Joe Mc Loughlin Waste Disposal Ltd. is licensed to accept non-hazardous waste at its waste licensed facility in Drumshanbo, Co. Leitrim. Specific waste types acceptable at this facility include Mixed Municipal Waste, Mixed Dry Recyclables/Kerbside, Packaging Waste, C&D, Scrap Metal, Glass and Biodegradable Waste. The total quantity of Waste acceptable under the waste licence conditions is 24,900 tonnes. The total quantity of waste accepted at the premises in the reporting period was 11,893 tonnes. The principal activities carried out at the facility include:

Mixed Municipal Waste (EWC 20 03 01)

Mixed Municipal Waste (MMW) is accepted from two sources; a) Municipal Waste from households and Municipal Waste from skips. MMW is stored in the waste transfer facility prior to removal.

Mixed Municipal Waste from Bin Lorries and Skips is tipped into Waste Ejector trailers. Trailers carrying MMW depart from site approximately twice every day and transfer this waste directly to Landfill. Four outlets have been utilised for MMW in the past year namely Ballaghaderreen Landfill, Aghalustia, Ballaghaderreen, Co. Roscommon, Drehid Landfill, Carbury, Naas, Co. Kildare, Derrinumera Landfill, Newport, Co. Mayo and Kilconnell Landfill, Ballinsloe, Co. Galway.

Mixed Dry Recyclables (MDR) (EWC 20 01 99)

Mixed Dry Recyclables are collected from households on alternative weeks, i.e. Kerbside collection. This material is tipped onto the waste transfer floor and any contaminants are removed prior to loading into an Ejector trailer. The Mixed Dry Recyclables are then transported to Barna Waste Ltd. Recycling Depot Co. Galway for sorting on there picking line and then sent onto a recycling outlet.

Plastic Packaging (EWC 15 01 02)

Plastic packaging waste from commercial outlets is segregated and baled in the baler in the waste transfer building, prior to transfer to Leinster Environmentals Resource Renewal Centre for recycling.

Metal (EWC 20 01 40)

Metal is collected directly from Commercial customers, or is segregated out of mixed commercial skips. Metal waste is sorted and placed into a skip. On accumulation of sufficient quantities metal waste is removed to a recycling facility. Two outlets have been utilised for metal recycling in the past year, namely Wilton Waste & Recycling Ltd. and Barna Waste Ltd. Recycling Depot Co. Galway.

Paper (EWC 20 01 01)

Paper is collected from commercial customer and casual customers over the weighbridge it is then segregated to remove any contaminants. Paper is baled and stored in the recycling shed prior to transfer to Failand Paper Services Ltd.

Cardboard Packaging (EWC 15 01 01)

Cardboard packaging is collected from commercial outlets and is further segregated on site to remove any contaminants. Cardboard is then baled and stored in the Recycling Shed prior to shipment to one of three recycling facilities Failand Paper Services Ltd., Leinster Environmentals Resource Renewal Centre and Barna Waste Ltd. Recycling Depot, Co. Galway.

Wood (EWC 17 02 01)

Timber from commercial waste skips, and domestic skips is tipped onto the floor of the waste transfer building. This waste is segregated to remove any contaminants. The wood is transferred into an ejector trailer prior to removal to Arigna Fuels Ltd. where it is used in the operation of a stream boiler.

Construction & Demolition (C&D) Rubble (EWC 17 01 07)

Mixed waste from Commercial waste skips is tipped onto the floor of the waste transfer building. Manual segregation is used to pick out large items such as concrete, bricks, stones, etc. The rubble is then loaded into bighooks prior to use as in-fill. Three outlets have been utilised for Rubble in the last year namely Joe Mc Loughlin Aghafin, Co. Roscommon, Ballaghaderreen Landfill Co. Roscommon, and Mc Weeney, Tonagh, Co. Leitrim.

Construction & Demolition (C&D) Fines (EWC 19 12 09)

Mixed waste from commercial waste is manually segregated taking out concrete, bricks, stone etc. The rest of this waste is then trommelled producing C&D fines which are removed and loaded into ejector trailers and transferred to Ballaghaderreen Landfill Co. Roscommon and used as in-fill.

Glass (EWC 15 01 07)

Mixed Glass is collected in a glass lorry directly from commercial customers. It is stored in a segregated area, where it is tipped and any contaminants are removed. On accumulation of sufficient quantities it is loaded with a low loader into an ejector trailer and transferred to Glassdon Ltd. Co. Antrim for recycling.

Tyres (EWC 16 01 03)

Over a period of time we accumulate a sufficient number of car tyres from skips. The tyres are segregated on site, the rims are removed from the tyres and placed in the Metal Skip for recycling, and the tyres are stored on site. On accumulation of sufficient quantities the tyres will be removed to a recycling facility.

Biodegradable Waste (EWC 20 02 01)

Biodegradable Waste from garden and park waste comes from amenity sites and causal customers over the Weighbridge, this waste is trommelled and used as in-fill. Two outlets have been utilised in the last year namely Ballaghaderreen Landfill, Co. Roscommon and Mc Weeney, Tonagh, Co. Roscommon.

Biodegradable Kitchen and Canteen Waste (EWC 20 01 08)

Biodegradable kitchen and canteen waste is collected from commercial customers in a compost lorry this waste is not tipped at the waste facility it goes straight to a compost facility namely EnviroGrind, Pettigo, Co Donegal.

3.0 Quantity & Composition of Waste Recovered

The following table details the total waste tonnage accepted at the facility in 2010. The table also details the end destination for recycled and disposed waste.

Table 1: Quantity & Composition of Waste

EWC	Description	In	Out	Destination
20 03 01	Mixed Municipal Waste	9658	4711	Ballaghaderreen Landfill, Aghalustia, Ballaghaderreen, Co. Roscommon
			3462	Drehid Landfill, Naas, Co. Kildare
			183	Derrinumera Landfill, Newport, Co. Mayo
			123	Kilconnell Landfill, Ballinsloe, Co. Galway
20 01 99	Mixed Dry Recyclables	1399	1396	Barna Waste & Recycling, Co. Galway.
17 02 01	Woodchip/Timber	54	243	Arigna Fuels Ltd. Arigna, Co. Roscommon..
15 01 01	Cardboard	465	203	Failand Paper Services, Clifton, Bristol,.
			320	Leinster Environmental, Dundalk, Co. Louth.
			8	Barna Waste & Recycling Ltd. Co. Galway
20 01 01	Paper	40	71	Failand Paper Services, Clifton, Bristol,.
15 01 02	Plastic	62	99	Leinster Environmental, Dundalk, Co. Louth.
			5	Barna Waste & Recycling Ltd. Co. Galway
15 01 07	Glass	185	198	Glassdon Ltd. Toomebridge, Co. Antrim
17 01 07	Mixed C&D Rubble		26	Joe Mc Loughlin , Aghafin, Co. Roscommon
			83	Ballaghaderreen Landfill, Aghalustia, Ballaghaderreen, Co. Roscommon
			185	Mc Weeney, Tonagh, Co. Leitrim
19 12 09	Mixed C&D Fines		251	Ballaghaderreen Landfill, Aghalustia, Ballaghaderreen, Co. Roscommon
20 02 01	Grass	1		
20 01 40	Scrap Metal	16	134	Wilton Waste Recycling Ltd. Co. Cavan
			31	Barna Waste & Recycling, Co. Galway.
20 01 10	Clothes		0.63	Textile Recycling Ltd. Dublin 24
16 01 03	Tyres		17	OM Tyre Recycling, Co. Down BT34 2EX
20 01 08	Biodegradable Waste	13	154	EnviroGrind Pettigo, Co. Donegal

TOTAL	**11893**	**11903**
Recycling Tonnage		**3424**
Disposal Tonnage		**8479**
Recycling Rate		**28.76%**

The total quantity of waste recycled in this reporting period was 3424 Tonnes, out of a total tonnage of 11903 managed at the premises. This means that a recycling rate of 28.76% was achieved at the facility in the period from 1st January 2010 to the 31st December 2010.

4.0 Environmental Monitoring

Monitoring of Dust, Noise, and Surface Water were carried out at the facility in 2010. Copies of monitoring reports are included in the appendices of this report. A plan detailing the monitoring locations at the site are included in Appendix 1.

4.1 Dust Monitoring

Monitoring Locations

Four dust monitoring gauges (D1, D2, D3, and D4) were installed at the facility in July 2006 and are utilised for dust monitoring. The location of these dust gauges is illustrated in the Monitoring Points Location plan located in Appendix 1.

Methodology

Dust monitoring has been reduced to twice annually during the period May to September at the premises in accordance with condition 6.10. Dust monitoring has been carried out in accordance with Schedule C6 by Complete Laboratory Solutions. Bergerhoff gauges were utilised as specified in the German Institute VD1 2119 Measurement of Dustfall using the Bergerhoff (Standard) method.

Results

The results of Dust monitoring for 2010 are outlined below:

Table 2: Dust monitoring results

Monitoring Point	Licence Limit (mg/m²/day)	Round 1 July – August 2010 (mg/m²/day)	Round 2 September – October 2010 (mg/m²/day)
D1	350	160	147
D2	350	722	120
D3	350	170	132
D4	350	99	297

Round 1

Dust gauges were erected on the 12th of July 2010 and removed on the 10th of August 2010. The highest Level of dust was recorded at D2 (722 mg/m²/day) this was above the licence limit vale of 350 mg/m²/day we believe due to the location of monitoring point D2 (above a hedgerow),and the very hot weather along with the activity of hay making in the field adjacent this monitoring point during July & August contributes to elevation of dust at this location.

Round 2

Dust gauges were erected on the 09st of September 2010 and removed on 08th of October 2010. The highest level of dust was recorded at D4 (297 mg/m²/day) this was well below the Licence Limit value of 350 mg/m²/day.

Dust results for round 2 indicate that dust levels are not likely to cause a nuisance. Copies of dust monitoring report are included in Appendix 2.

4.2 Noise Monitoring

Monitoring Locations

Noise monitoring was carried out at 8 locations: N1 – N8. The location of monitoring points is Included in Appendix 1. N1-N4 are onsite monitoring points: N5 –N8, are defined as noise sensitive Locations, and are located at various points outside the site.

Methodology

Noise assessment was carried out by Piotr Nadany, of EURO Environmental Services, on the 16th of April 2010 in accordance with the EPA Environmental Noise Survey Guidance Document.

Measurements were taken using a Cirrus (CR: 811B) sound level meter with windshield attached. The meter was calibrated to 94 dB (A) immediately prior to measurement. The Noise survey recorded, the following parameters:

LAeq – Equivalent Continuous A weighted Sound Level.

LA10 – Noise level exceeded for 10% of the measurement time.

LA90 – Noise level exceeded for 90% of the measurement time.

Results

The results in Table 3 below demonstrate that noise levels at the facility are within the limits of 55dB (a) set down in schedule C1 of waste licence no. W0216-01. A copy of the noise monitoring report is included in Appendix 3.

Table 3: Noise Monitoring Results

Monitoring Point	Licence Limit LAeqdB(A)	LeqdB(A)	L_{10}dB(A)	L_{90}dB(A)
N1		65	68	39
N2		56	57	51
N3		62	65	56
N4		60	62	57
N5	55	68	67	41
N6	55	49	51	44
N7	55	47	49	39
N8	55	48	52	35

A daytime noise limit of 55dB (A) should be applied to the Leq at all noise sensitive locations (EPA recommendations). Monitoring points N5-N8 are all regarded as noise sensitive locations.

All results were below the EPA limit of 55dB (A), with the exception of N5 which registered at 68 LeqdB (A).However this result was generated by frequent passage of traffic and construction noise from road works; the continuous noise level (as indicated by the L_{90}) is in fact quite low and was measured at 41dB (A).A full copy of the environmental noise survey is included in Appendix 3.

4.3 Surface Water Monitoring

Methodology

Water monitoring was reduced to Quarterly for all parameters at the premises in June 2007 in accordance with condition 6.10.
Two 1 litre samples of water are collected from 2 surface water monitoring points, SW1 (the lake adjacent to the facility), and SW2 (the stream that flows along the boundary of the site, into the lake).
There was insufficient flow at monitoring point SW2 during the period of Quarter 1, Quarter 2 & Quarter 3 to obtain a sample for analysis.

Samples were taken by the EURO Environmental Service personnel and brought to their laboratory for analysis.

Results

The results of surface water monitoring for both monitoring points is outlined in the 2 tables below. All parameters analysed were within the limits specified in the waste licence.

Table 4: SW1 Water Monitoring Results

Parameter	pH	Conductivity (mS/cm)	Suspended Solids mg/L	COD mg/L	Ammonia mg/L	Mineral Oils mg/L
Licence Limit						**5**
16.03.10	7.2	554	39	22	0.26	0.2
14.05.10	7.6	505	2	27	0.25	0.0025
12.08.10	7.3	552	16	30	4.83	0.0025
06.10.10	7.2	417	<2	28	0.10	<0.0025

Table 5: SW2 Water Monitoring Results

Parameter	pH	Conductivity (mS/cm)	Suspended Solids mg/L	COD mg/L	Ammonia mg/L	Mineral Oils mg/L
Licence Limit						**5**
16.03.10	Insufficient Flow for Sampling					
14.05.10	Insufficient Flow for Sampling					
12.08.10	Insufficient Flow for Sampling					
06.10.10	7.5	445	15	29	0.017	0.0025

5.0 Resource & Energy Consumption

4.1.1 Condition 7.1 of Waste Licence W0216-01 'Resource Use and Energy Efficiency' requires the licensee to carry out an Audit of the Energy Efficiency of the site in accordance with the guidance published by the Agency "Guidance Note on Energy Efficiency Auditing " the Energy Efficiency audit shall be repeated at intervals as required by the Agency.

An Energy Audit was carried out on 14th of June 2007 by Environmental Efficiency Consulting Engineers.

4.1.2 Condition 7.2 of Waste Licence W0216-01 the audit shall identify all opportunities for Energy Use Reduction and Efficiency, and the recommendations of the audit will be incorporated into the Schedule of Environmental Objectives and Targets.

The recommendations were put in place and incorporated into the Schedule of Environmental Objectives and Targets.

4.1.3 Condition 7.3 of Waste Licence W0216-01 requires the licensee to identify opportunities for reduction in the quantity of water used on site including recycling and reuse initiatives, wherever possible. Reductions in water usage shall be incorporated into the Schedule of Environmental Objectives and Targets.

An assessment was carried out on methods to reduce water usage on site. Meters were installed on our fire hydrant and water mains to record and monitor the usage accordingly; these have been incorporated into the Schedule of Environmental Objectives and Targets.

4.1.4 Condition 7.4 of Waste Licence W0216-01 requires the licensee to undertake an assessment of the efficiency of use of raw materials in all processes, having particular regard to the reduction in waste generated. The assessment should take account of best international practice for this type of activity. Where improvements are identified, these shall be incorporated into the Schedule of Environmental Objectives and Targets.

An assessment of use of raw material was carried out in 2009 by doing two characterisation studies one from rural areas and the other from Urban; this data was used to identify ways to reduce waste generation and has been incorporated into the Schedule of Environmental Objective & Targets.

We have instigated our Biodegradable Waste collection, which has reduced the generation of waste going to landfill, and increased the generation of waste for recycling.

6.0 Developmental & Infrastructural Works

Most development works were carried out at McLoughlin's Waste Disposal Ltd. in 2005 to achieve a satisfactory standard for a waste transfer facility. Infrastructural works carried out early in 2006 included the installation of a trommel and a picking line for the segregation of Mixed/Contaminated recyclables.

Infrastructural works carried out early in 2007 included the construction of a Percolation Area, which was designed and supervised by Advanced Planning & Design Services in accordance with EPA Waste Water Treatment Manual – treatment systems for single houses. A high level alarm was fitted on the waste water storage tank. Shut off valves were fitted on surface water drainage system.

Development work carried out in 2009 consisted of installing of a meter on our fire hydrant.

Development work carried out in 2010 consisted of installing a meter on our water mains.

There is currently no development/infrastructural works planned for 2011.

7.0 Objectives & Targets

7.1. Table 6: Schedule of Objectives & Targets – General 1 year plan

Ref no.	Licence Cond. no.	Objective	Target
1	7.2,7.3, 7.4	**Resource Management**	Review water usage annually, and update as necessary in line with any changes. Continually work on improving the use of raw materials.
2		**Recycling & Waste Management**	Review Recycling rates and set revised targets on an annual basis. Upgrade waste/recycling infrastructure on site to increase site capacity in line with waste intakes/processing requirements.
3	3.20.1	**Firewater Retention Management**	Implement any recommendation requested by the Agency.
4		**Environmental Management System**	Continue the review and development of the EMS system.
5		**Health & Safety**	Carry out a review of Health & Safety management at the site and ensure a programme is implemented that ensures the site is working to the highest possible Health and Safety standards.
6		**Emissions Monitoring**	Maintain the Emissions Monitoring Programme and Report any exceedances of mission levels to the EPA.
7		**Nuisance Management**	Ensure any nuisances on site are eliminate or controlled effectively.
8	6.1.2	**Litter Control**	Ensure all loose litter or other waste is removed at the end of each working day.
9	3.16.5	**Infrastructure & Operation**	Carry out bund, tank and container integrity assessment.
10		**Cost Saving**	Work towards maximising cost savings in all areas due to current economic climate
11		**Environmental Monitoring**	Identify a nationwide list of market leaders in relation to environmental monitoring to ensure best qualified and most cost effective contractor are engaged to carry out the work.
12		**Collection Activities**	In addition to the management of our site we should review the efficiency and effectiveness of the collection side of our business.
13		**Communications**	Develop the company website further and add new features to ensure the best possible service and source of information to our customers.
14		**IT Systems**	Implement improvements to the IT set-up at the site to ensure we continually improve our ability to access and report on data.
15		**Housekeeping**	Remove redundant materials in the yard.

We have completed our first 5 year General Plan of Objectives & Targets, these Objectives & Targets were very specific to Licence requirements, as it was our first five years in operation, we are now only planning a year ahead because our Objectives & Targets are more site specific.

7.2 Environmental Management Programme – report for previous year (2010)

Ref no.	Objective	Target	Means by which achieved	Resp	Date	Complete (Y/N)
1	Waste Licence Compliance	Maintain all recordkeeping & reporting, etc. necessary to ensure ongoing compliance with the facility Waste Licence.	Procedures and recordkeeping for waste acceptance, incidents, complaints, nuisance monitoring emissions monitoring, etc. have been maintained.	AC	01/01/10	Y
			Prepare all required reports for the EPA, within the timescales specified in the conditions of the Waste Licence.	AC	31/12/10	Y
			Prepare Annual Environmental Report for the site.	AC	31/03/11	Y
			Maintain all records on site, available for inspection.	AC	01/01/10	Y
			Provide training to key staff to ensure records are completed correctly.	AC	01/01/10	Y
2	Emissions Monitoring	Maintain Emissions monitoring programme	Complete Laboratory Solution Analysis our Dust and EURO Environmental Services carried out our Surface water analysis and our Environmental Noise Survey as specified in the Waste Licence.	AC	01/01/10	Y
			Dust, Noise and Surface Water Monitoring Maintain.	AC	01/01/10	Y
			Daily Visual Inspection of Surface Water Maintain.	AC	01/01/10	Y
		Maintain the Emissions Monitoring Programme and Report any Exceedances of Emission levels to the EPA.	Environment Monitoring & Reporting Procedure have been Maintain. Incident Recording & Reporting Procedure to record/ report any potential exceedances of Emissions Limit Values have been Maintain.	AC	01/01/10	Y
3	Environmental Management System	Establish all documentation necessary for an EMS by 2006.	Standard Procedures, Work Instructions and forms to cover all operations have been implemented.	FM	27/06/06	Y
			Environment Objectives & Targets, and an Environmental Management Programme has been implemented.	FM	27/06/06	Y
			A Communications Programme has been implemented.	FM	27/06/06	Y

4	Training	Maintain Training procedure to determine site training requirements.	A training procedure to identify Site Training Requirements has been Maintain.	AC	01/01/10	Y
		Ensure all relevant staff are trained in and aware of the Waste Licence requirements and that new staff are trained within one month of appointment.	All relevant staff have been trained in and are aware of the requirements of our waste licence. All trained staff received a copy of the waste licence. All new staff will be trained within one month of appointment.	AC	01/01/10	Y
5	Nuisance Management	Maintain Weekly Facility Inspection for Nuisances.	Weekly Facility Inspection for Nuisances Maintain.	AC	01/01/10	Y
		Ensure any litter is removed by the end of each working day	Litter is removed by the end of each working day.	AC	01/01/10 On-going	Y
6	Energy Management	Carry out an Energy efficiency Audit of the site	Energy Audit carried out in 2007.	AC	14/06/07	Y
		Maintain recommendations from the Energy Audit.	Recommendation from the Energy Audit have been Maintain.	AC	01/01/10	Y
7	Resources Management	Carry out an assessment on methods of reducing Water usage onsite by end of 2008.	An assessment was carried out on methods to reduce water usage on site.	AC	31/12/08	Y
		Identify opportunities for the reduction in the quantity of water used on site.	In 2010 we installed a meter on our water mains to enable us to record and monitor the usage accordingly.	AC	01/07/10	Y
		Undertake an assessment of use of raw materials.	We have instigated our Biodegradable waste collection which has reduced the generation of waste going to landfill, and increased the generation of waste for recycling.	AC	07/07/10	Y

8	Recycling & Waste Management	Review Recycling rates and set revised targets on an annual basis.	Recycled 28.76%. of all waste in 2010. Include 2010 Recycling Rates in AER Report. Use 2010 recycling rates as a baseline for setting revised Recycling rates for 2011.	AC	31/03/11	Y
		Upgrade waste/recycling infrastructure on site to increase site capacity in line with waste intake/processing requirements.		AC	On-going	N
9	Firewater Retention	Carry out a risk Assessment to determine if the activity should have a firewater retention facility.	Environmental Efficiency Consulting Engineers carried out a Firewater Retention Assessment on the 3rd of August 2007.	AC	03/08/07	Y
		The licensee shall submit the assessment and a report to the Agency on the recommendations	A report on the finding and recommendations of the assessment was submitted to the Agency on the 24th of September 2007.	AC	On-going	Y
			An inspection of our facility on 1st of May 2008 resulted in the Environmental Officer requesting that we carry out a level survey of the retention capacity within the Waste Transfer Building. A report on the survey was submitted to the Agency on 4th of June 2008.	AC	On-going	Y

7.3 Environmental Management Programme – proposal for forthcoming year (2011)

Objectives and Targets & means by which they may be achieved	Responsibility	Completion Targets	Status
Resource Management - Continually review and update in line with any changes. Continue to monitor and record water usage on a quarterly basis. Continue to improve the use of raw materials.	Facility Manager Operations Manager	Ongoing	
Recycling & Waste Management - Recycle 30% of all waste received in 2011. Review Recycling & Disposal tonnages on a monthly basis, and identify methods to increase rates, if possible.	Facility Manager Operations Manager	Ongoing	
Firewater Retention Management - Conclusion of assessment to determine if the activity should have firewater retention.	Facility Manager Operations Manager	Q4-2011	
Environmental Management System - Review current EMS system and maintain as necessary to ensure ongoing compliance with the site Waste Licence. Ensuring all departments' processes and procedures are included in the company EMS system, and it is updated as necessary with any changes to work practises.	Facility Manager	Ongoing	
Health & Safety - Review all staff training records regularly to identify training requirements. Identify any training requirements and liaise with the Health & Safety Manager to organize training where needed.	Health & Safety Manager Facility Manager Operations Manager	Q4-2011	
Emissions Monitoring - Maintain Emissions monitoring programme. Review monitoring reports record and report to the agency in accordantly with Schedule E.	Facility Manager	Q4-2011	
Nuisance Management - Ensure any potential nuisances on site are controlled. Review all documentation from nuisance inspections and weekly facility checks to ensure that all nuisances are controlled effectively.	Facility Manager	Ongoing	
Litter Control - Ensure all loose litter or other waste is removed at the end of each working day. Pick up loose litter on the ground remove any waste litter place on or in the vicinity of the facility to the sorting shed for processing.	Facility Manager Operations Manager	Ongoing	
Infrastructure & Operation - Test bund, tank and container integrity. Engage a consultant to carry out the bund tank and container integrity test.	Facility Manager	Immediate	
Cost saving - Work towards maximising cost saving in all areas due to current economic climate. Carry out regular checks of expenditure in production and administration and review on a quarterly basis.	Management Team / All Staff	Ongoing	
Environmental Monitoring – Carry out a tender annually to ensure monitoring is carried out by a combination of the best qualified and most cost effective contractor.	Facility Manager	Q4-2011	
Collection Activities – Ensure material being collected and routes being used are providing the site with the best possible segregation of material to make management on site simpler.	Operation Manager	Ongoing	
Communication – Continue to develop the website via customer feedback to ensure the best possible service to customer is provided and that this tool is utilised to its full potential.	Management Team / All Staff	Ongoing	
IT System – Continually work to improve IT set-up to improve our ability to access and report on data, link into our sister plants in Galway / Roscommon to make communications easier and keep our systems modern and up to date.	Management Team / All Staff	Ongoing	
Housekeeping - Clear the site of all redundant materials.	Facility Manager Operations Manager	Q4-2011	

8.0 Environmental Incidents & Complaints

There was two environmental incident recorded by Joe Mc Loughlin Waste Disposal Ltd. at the site 2010 we had one Non Compliance with condition 4.5. and one Non Compliance with condition 4.4.1.

9.0 Pollution Emission Register – Report for Previous year

Our facility Pollution Emission Main Economic Activity is Waste Treatment and Disposal. Our PRTR Class Activity Number: - 50.1, Activity Name: - General NACE Code:-3821. There was no Environmental Pollution Emission incidents recorded by Joe Mc Loughlin Waste Disposal Ltd. at the site in 2010. A copy of the Pollution Worksheet is attached in Appendix 7.

10.0 Pollution Emission Register – Report for Current year

Maintain Pollution Emissions Activity and report any exceedances, incident or complaints to the EPA.

11.0. Other Information

11.1. Tank & Pipeline Testing & Inspection Report

The integrity and water tightness of all the bunding structures and their resistance to penetration by water or other materials stored within their bunds are required to be tested we have sort the market for companies to carry out this work and have engage with a company who have given us a quotation once the price has been agreed the work will be carried out.

11.2. Energy Efficiency Audit Report Summary

An Energy Audit was carried out in 2007 by Environmental Efficiency Consulting Engineers. All recommendations were implemented in 2007.

11.3. Efficiency of use of Raw Materials

We have instigated our Biodegradable Waste Collection, which has reduced the generation of waste going to landfill, and increased the generation of waste for recycling.

11.4. Water & Trade Effluent Discharge – Progress made/Proposals

Trade effluent is removed from the facility when required and transferred to Drumshanbo Wastewater treatment plant under the agreement of the EPA and Leitrim County Council. Samples of trade effluent are collected and sent for analysis prior to collection of the waste water.

11.5. Financial Provision

Barna Waste t/a Joe Mc Loughlin Waste Disposal Ltd. has Public and Employee liability insurance in place. The Limit of indemnity of this insurance is €6.5 & €13 million respectively. This provides for the cost of cleaning up of any Environmental Pollution in the event of an incident taking place at the site.

11.6. Management & Staffing Structure

The facility is managed by Simon Rooney and Facility Manager is Ann Clarke. Simon Rooney has worked in the waste business for over nine years. The Facility Manager completed the FAS Waste Management Course in 2007.

11.7. Programme for Public Information

A Communications Programme (Procedure No. P6) has been prepared and details when and how members of the public can obtain information in relation to the facility. A copy of this procedure is attached in Appendix 4.

11.8. Statement of measures in relation to prevention of Environmental Damage & Remedial Action.

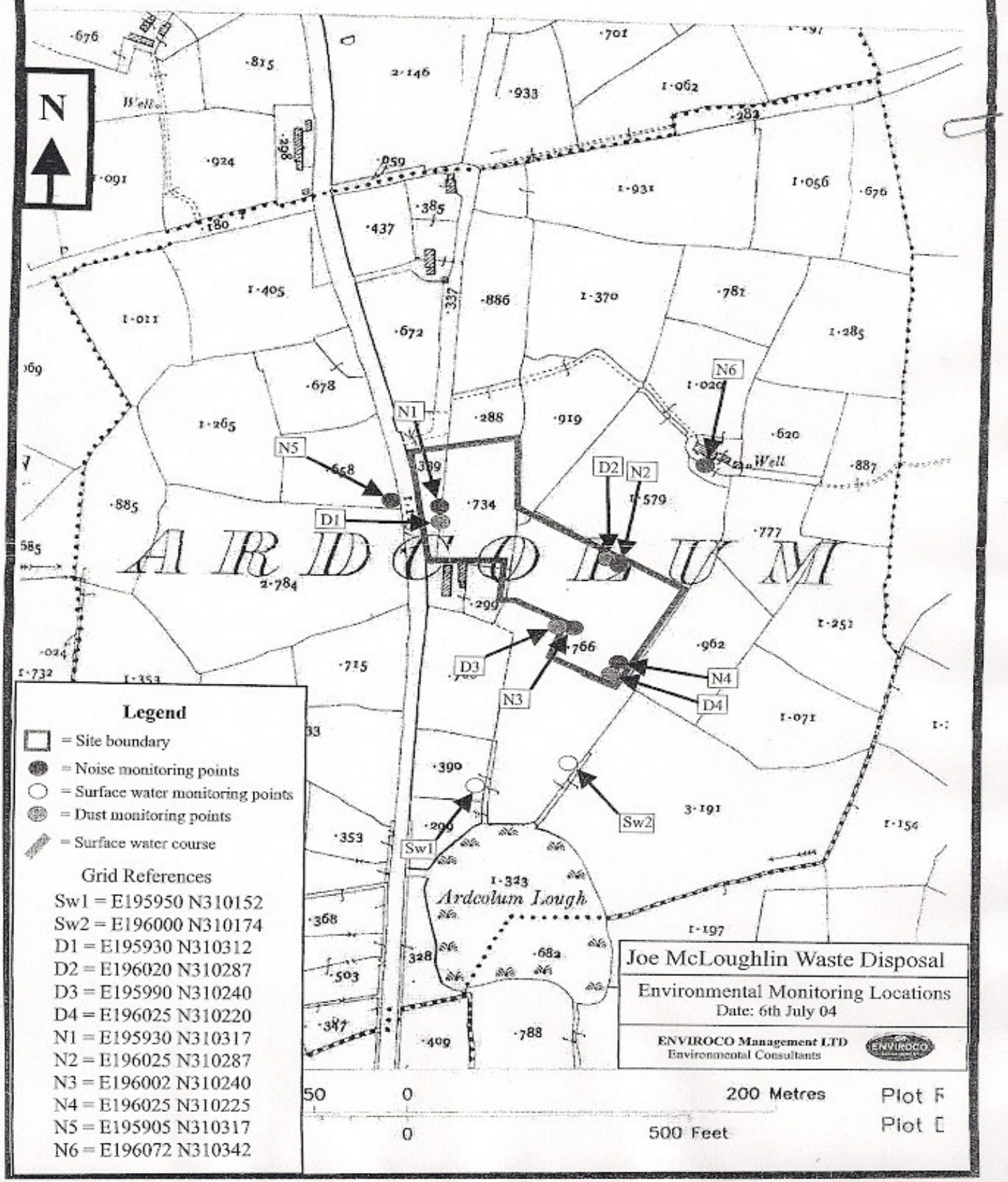
All activities carried out by Barna Waste t/a Joe McLoughlin Waste Disposal Ltd. is undertaken in a manner so as not to cause Environmental Pollution. Specific measures include:

- Monitoring of emissions.
- Weekly inspections of facility.
- Control of waste contractors.
- Removal of wind blow litter.
- Spraying with water to remove Dust nuisances.
- Processing of waste indoors only, to prevent, litter, dust, odour and noise nuisances.
- Testing and transfer of trade effluent (to a waste water treatment plant) in a timely fashion to prevent overflow of trade effluent tank, etc.

Appendix 1

Location of Monitoring Points

Map J.1.1 Environmental Monitoring locations at the Joe McLoughlin Waste Disposal Site



Appendix 2

Dust Monitoring Results

Dust Monitoring Report 2010

Joe Mc Loughlin Waste Disposal Ltd.

Waste Licence no. W0216-01

Introduction

Dust monitoring is required in accordance with waste licence no W0216-01. Dust Monitoring is carried out at 4 locations, around the facility (D1-D4).

- D1 – Entrance to site
- D2 – Located next to waste storage shed above a hedgerow
- D3 – Located next to waste storage shed and truck wash facility
- D4 – Located at the back of waste storage shed and truck wash facility

Dust Monitoring

Dust monitoring is required 2 times per year, between May – September. Dust gauges are placed at each monitoring point to collect Dust for 30 days.

The Dust gauges are analysis for Total Dust Deposition (mg/m²/day).

Methodology

Dust gauges are installed at each location and left for a period of 30 days, after which time, the containers are collected by Complete Laboratory Solutions and taken to their laboratories for analysis.

Results

The results from Dust samples are presented in table 1 below.

Table 1:Total Dust Deposition (mg/m²/day)

Monitoring Point	Licence Limit (mg/m²/day) ELV	Round 1 July - August 2010 (mg/m²/day)	Round 2 September - October 2010 (mg/m²/day)
D1	350	160	147
D2	350	722	120
D3	350	170	132
D4	350	99	297

The Waste Licence limits for Dust Deposition stipulate an emission limit of 350 mg/m²/day. The emission limit was elevated at D2- (Located next to waste storage shed above a hedgerow) in July and August this was due to the very dry spell we had along with the activity of hay making in the field adjacent this monitoring point.

All monitoring results were within the licence requirement emission limit of 350 mg/m²/day for September and October.

Appendix 3

Noise Monitoring Results

Barna Waste Ltd.

Ardcolum, Drumshanbo, Co. Leitrim

Annual Environmental Noise Monitoring Report - 2010

Waste Licence Reg. No. 216-01

16th April 2010

EURO environmental services

Unit 35 Boyne Business Park, Drogheda, Co Louth

Report No. 3210/M19

1.0 Introduction

An annual noise survey was carried out at the premises of Barna Waste Ltd., Ardcolum, Drumshanbo, Co. Leitrim on the 15th of March 2010 by Piotr Nadany of EURO environmental services. Eight pre-determined locations for noise were monitored as shown on the attached site map (see Appendix 1).

2.0 Duration and Measurements of Surveying

The survey was carried out between 13:06 and 17:48 on Monday the 15th of March 2010. The following measurements were carried out:

- Daytime Broadband measurements $L(A)_{eq}$, $L(A)_{10}$, and $L(A)_{90}$, over a 30 minute period.
- Daytime 1/3 Octave Band measurements over a 30 minute period in the range 25 Hz to 16 kHz.

2.1 Description of Measurement Parameters

2.1.1 **L_{eq} Values**: L_{eq} (t) values represent the continuous equivalent sound level over a specified time (t). This value expresses the average levels over time and is a linear integral.

2.1.2 **L_{90} and L_{10} Values**: The L_{90} and L_{10} are statistical values which represent the sound levels exceeded for a percentage of the measurement time. L_{10} indicates the sound levels exceeded for the 10% of the monitoring period while L_{90} indicates the sound levels exceeded for 90% of the monitoring period. The L_{90} value is a good indication of background noise levels.

2.1.3 **Tonal and Impulsive Characteristics**: Tonal noise is characterised in accordance with ISO 1996-2, which indicates that a noise source being tonal at a particular frequency is either clearly audible or exceeds the level of the adjacent bands by 5dB or more. An impulsive noise is of short duration (typically less than 1 second), it is brief and abrupt, and its startling effect causes greater annoyance than would be expected from a simple measurement of sound pressure level. For example an instantaneous bang/thud that may be associated with pile driving, hammering etc.

3.0 Weather Conditions

Weather conditions were overcast with light rain and a slight breeze. Wind speeds were <5m/sec.

4.0 Location of Monitoring Points

•N1 is located within the East site boundary.

GPS coordinates:
N 54° 02' 31.3"
W 08° 03' 46.7"

•N2 is located within the North East site boundary.

GPS coordinates:
N 54° 02' 30.10"
W 08° 03' 41.40"

•N3 is located within the South West corner of site boundary.

GPS coordinates:
N 54° 02' 28.40"
W 08° 03' 42.40"

•N4 is located within the South West corner of site boundary.

GPS coordinates:
N 54° 02' 28.20"
W 08° 03' 40.90"

•N5 is located approximately 10 meters away from West site boundary.

GPS coordinates:
N 54° 02' 31.00"
W 08° 03' 47.60"

•N6 is located approximately 60-70 meters away from North East site boundary.

GPS coordinates:
N 54° 02' 33.20"
W 08° 03' 40.20"

•N7 is located approximately 50 meters away from North East corner of site boundary.

GPS coordinates:
N 54° 02' 34.10"
W 08° 03' 42.10"

•N8 is located approximately 100-120 meters away from South corner of site boundary.

GPS coordinates:
N 54° 02' 34.10"
W 08° 03' 42.10"

5.0 Activities on Site

Activities continued as normal during the noise survey. Main sources of noise were produced by heavy machinery operating on site (in the shed), site traffic, trucks passing by the monitoring locations, reverse beeping sirens, noise from breaking glass, metal banging sounds and the loading of plastic bins onto the waste lorries.

6.0 Methodology

The noise survey was carried out in accordance with ISO 1996/1/2/3 – Acoustics – Description and Measurement of Environmental Noise.

Reference was also made to the guidance note issued by the Environmental Protection Agency for the assessment of noise from licensed facilities.

Broadband measurements were 30-minute intervals, in the set range 30 – 90dB.

The meter was calibrated before and after the survey.

7.0 Equipment

The monitoring equipment used was a B&K 2250 Type 1 integrating averaging sound level meter with Serial No. B14907FF and selective 1:1 or 1:3 octave band measurements.

The meter was fixed to a tripod 1.3 meters above the ground level and the microphone was protected using a windshield. The microphone cartridge type was an MK224, Serial No. 990785 with open circuit sensitivity level of 45.4 mV per Pa.

7.1 Calibration

Calibration was carried out on site using an acoustic calibrator at 94 dBA. The meter was calibrated before and after the monitoring round.

8.0 Day Time Noise Measurements

Monitoring Point	Location	Date / Time	Sampling Interval (minutes)	L(A)eq	$L(A)_{10}$	$L(A)_{90}$	Comments
N1	Within the East site boundary. GPS coordinates: N 54° 02' 31.3" W 08° 03' 46.7"	15/03/10 13:06	30	65	68	39	At monitoring point N1 there were slightly audible sounds which originated from the Barna Waste site. The main noise sources at this location were interference noise that was generated by frequent passage of traffic and construction noise from road works which caused elevated noise levels.
N2	Within the North East site boundary. GPS coordinates: N 54° 02' 30.10" W 08° 03' 41.40"	15/03/10 14:11	30	56	57	51	Noise at monitoring point N2 was due to the sound of heavy machinery operating on site (in the shed), site traffic, trucks passing by monitoring location, reverse beeping sirens, glass breaking and metal banging noise. Interference noise at this location was generated by the sound of traffic and birds singing.
N3	N3 is located within the South West corner of site boundary. GPS coordinates: N 54° 02' 28.40" W 08° 03' 42.40"	15/03/10 14:42	30	62	65	56	Noise at monitoring point N3 was due to the noise generated by the loading of plastic bins on waste trucks, heavy machinery operating in the shed on site, trucks moving on site and the sound of metal banging. Interference noise at this location was generated by the people on site talking loudly, birds singing and the passage of external road traffic.
N4	South West corner of site boundary. GPS coordinates: N 54° 02' 28.20" W 08° 03' 40.90"	15/03/10 15:14	30	60	62	57	Main sources of noise at this monitoring point arose from the operation of heavy machinery in the shed on site, trucks moving on site, metal banging and glass breaking. Interference noise at this location was generated by birds singing and the passage of external road traffic.

Monitoring Point	Location	Date / Time	Sampling Interval (minutes)	L(A)eq	$L(A)_{10}$	$L(A)_{90}$	Comments
N5	Approximately 10 meters away from West site boundary. GPS coordinates: N54°02'31.0" W08°03.47.6"	15/03/10 13:38	30	68	67	41	Noise at monitoring point N5 was due to the constant operation of a loader within the shed. Interference noise at this location was generated by traffic movement and people working alongside the monitoring location.
N6	Approximately 60-70 meters away from North East site boundary. GPS coordinates: N54°02'33.2" W08°03'40.2"	15/03/10 15:52	30	49	51	44	Noise at monitoring point N6 was due to the constant operation of a loader within the shed. Interference noise at this location was generated by traffic movement and birds singing.
N7	Approximately 50 meters away from North East corner of site boundary. GPS coordinates: N54°02'34.1" W08°03'42.1"	15/03/10 16:23	30	47	49	39	Noise at monitoring point N7 was due to the constant operation of a loader within the shed. Interference noise at this location was generated by traffic movement and birds singing.
N8	N8 is located approximately 100-120 meters away from South corner of site boundary. GPS coordinates: N54°02'28.4" W08°03'42.4"	15/03/10 17:18	30	48	52	35	There was noise slightly audible at monitoring point N8 which originated from the Barna Waste site. It was generated by machinery operating on site. The main source of noise recorded at this location was from interference noise generated by traffic movement, birds singing and horses neighing.

9.0 Third Octave Noise Measurements

Third octave noise monitoring results are used to identify prominent tonal components in noise. Tonal noise component were detected at monitoring locations N2, N3 and N6 during the survey:

N2	16Hz	65.6dB
N3	16Hz	64.5dB
N6	63Hz	61.3dB
N6	125Hz	55.0dB

The source of the tonal components detected at N2, N3 and N6 may be due to the operation of plant on site.

10.0 Summary and Conclusions

Noise level was determined at eight monitoring locations within and around the Barna Waste facility in Leitrim. Monitoring locations N1, N2, N3 and N4 are located inside of the site boundary. Remaining locations N5, N6, N7 and N8 are located outside of the facility.

The EPA waste licence reg. no. 216-01 recommends a day time noise limit of 55 dB(A). This limit was exceeded at five of the monitoring locations at the Barna Waste Leitrim site.

Monitoring points N1, N2, N3, N4 and N5 were determined to be over the recommended day time noise limit.

The noise level at monitoring location N1 exceed recommended day time noise limit with an L_{Aeq} of 65 dB(A) but general noise recorded arose mainly from road traffic interference as noise from site activities was not audible during the survey.

The noise level at monitoring location N2 slightly exceed the day time noise limit with an L_{Aeq} of 56 dB(A). Considering the location of monitoring point close to the area of general site activity, recorded noise levels arose from sources related to site operation; however interference noise also had an influence on the general noise levels recorded.

The noise level at monitoring location N3 exceeded the day time noise limit with an L_{Aeq} of 62 dB(A). Considering the location of monitoring point close to the area of general site activity, recorded noise levels arose from sources related to site operation. Audible noise from road traffic as well as from other natural sources had an influence on general noise levels recorded at this location.

Monitoring point N4 was determined to be over the recommended day time noise limit with an L_{eq} of 60 dB(A). Elevated noise levels at this monitoring location were due to heavy machinery operating on site, trucks moving on site, metals banging and glass breaking.

Monitoring location N5 exceed the recommended day time noise limit with an L_{Aeq} of 68 dB(A). The L_{Aeq} result is elevated due to noise generated by the constant operation of a

loader operating in the shed. Traffic movement and people working alongside the monitoring location were recorded as interference noises at this monitoring location.

Monitoring points N6, N7 and N8 were determined to be within the recommended day time noise limit. These three monitoring locations are located away from traffic and more than 50 metres from the Barna Waste site. The noise levels measured at these locations were 49 dB(A), 47 dB(A) and 48 dB(A) at N6, N7 and N8, respectively.

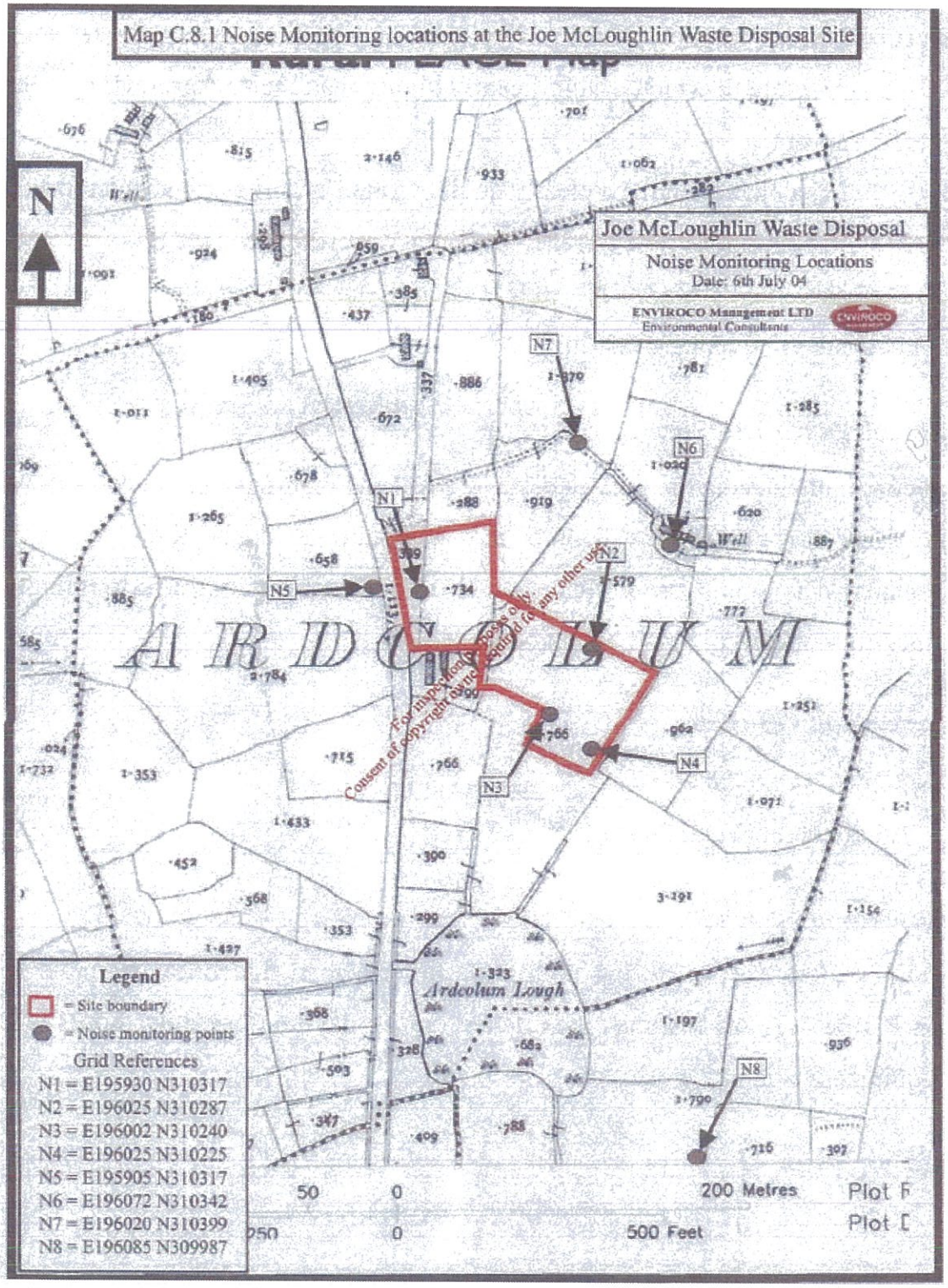
At monitoring points N1, N2 and N8 there were no or slightly audible sounds which originated from the activities at the Barna Waste facility. Interference noises at these monitoring locations included traffic movement on the road and construction activities on the road.

Aadil Khan
Environmental Technical Manager

Ewa Piatek
Environmental Technician

16th April 2010

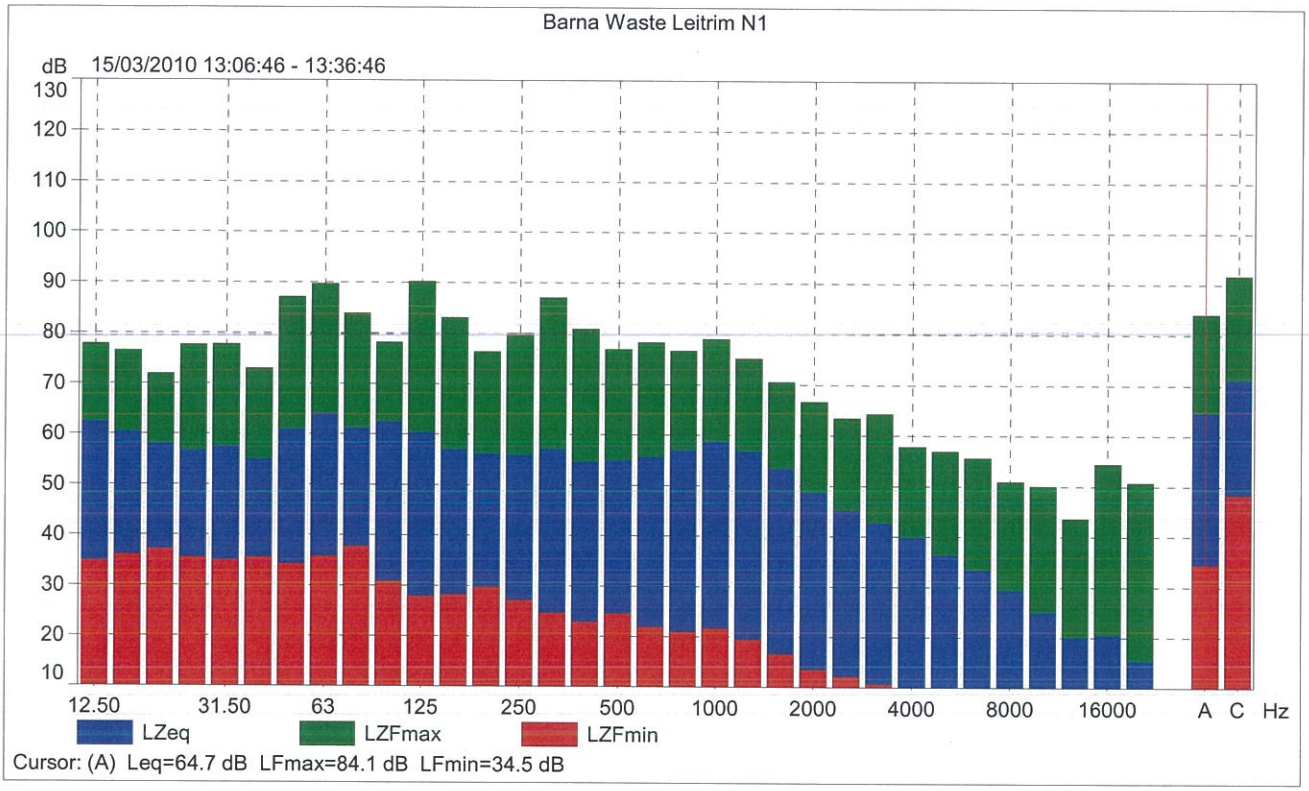
Appendix 1: Drawing of Noise Monitoring Locations



Appendix 2: Broadband Data and 1/3 Octave Spectra

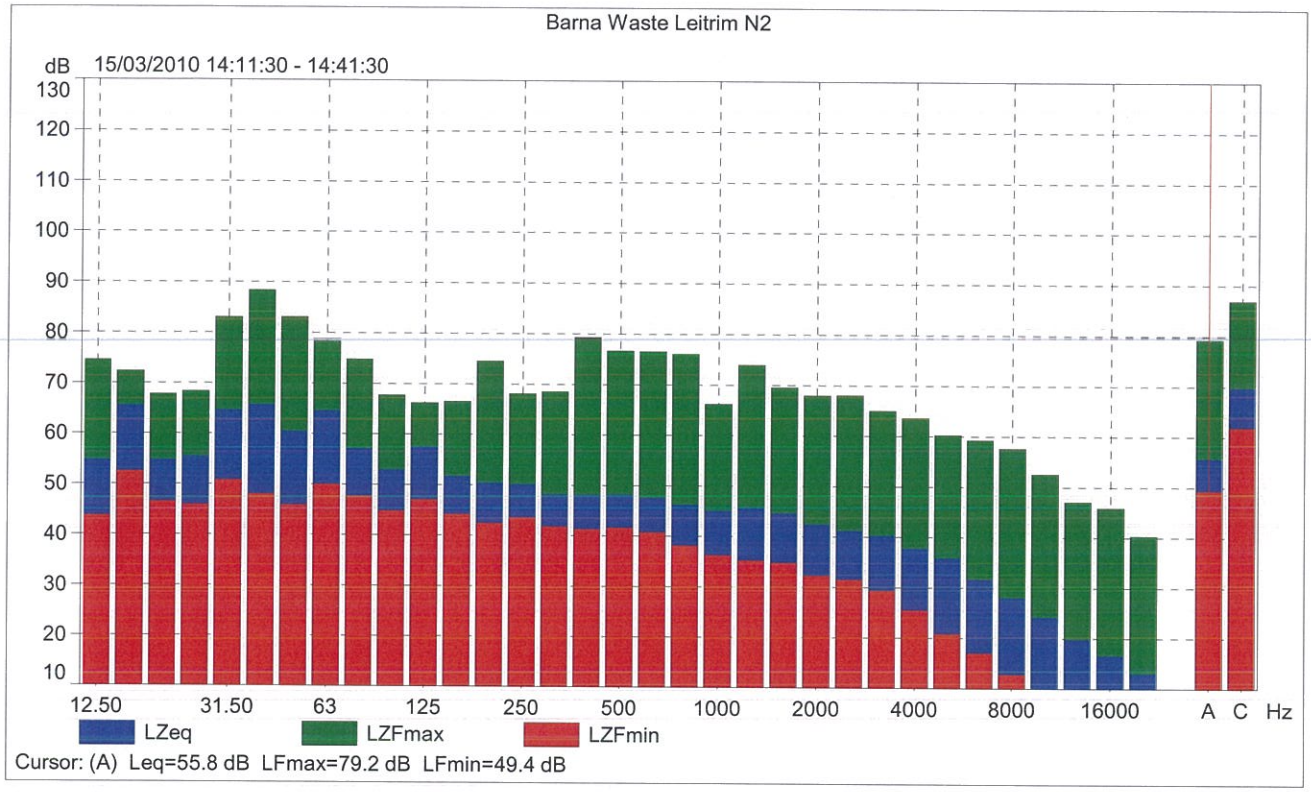
Barna Waste Leitrim N1

	Start time	End time	Overload [%]	LAFmax [dB]	LAFmin [dB]	LAeq [dB]	LAF10 [dB]	LAF90 [dB]	LCpeak [dB]
Value			0.00	84.1	34.5	64.7	67.6	39.3	100.3
Time	13:06:46	13:36:46							13:18:54
Date	15/03/2010	15/03/2010							15/03/2010



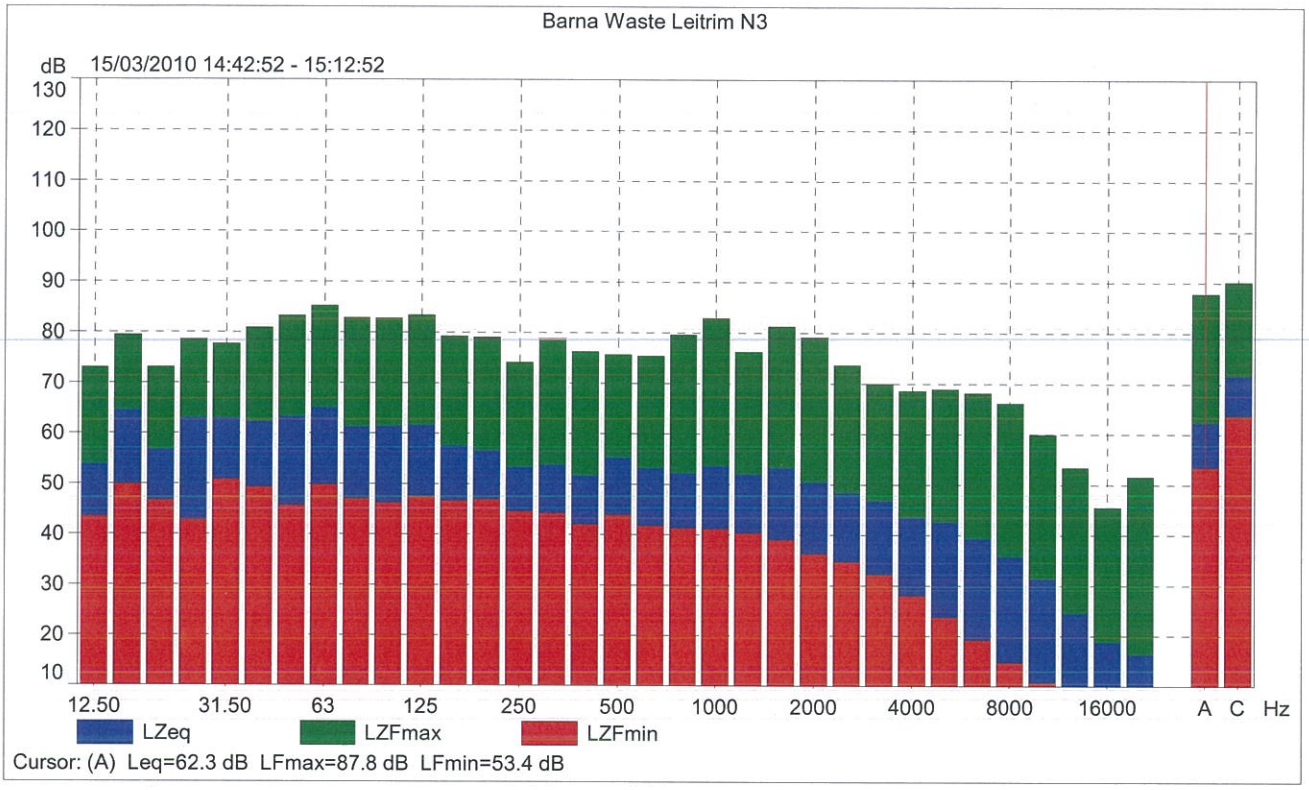
Barna Waste Leitrim N2

	Start time	End time	Overload [%]	LAFmax [dB]	LAFmin [dB]	LAeq [dB]	LAF10 [dB]	LAF90 [dB]	LCpeak [dB]
Value			0.00	79.2	49.4	55.8	56.6	51.4	93.2
Time	14:11:30	14:41:30							14:35:27
Date	15/03/2010	15/03/2010							15/03/2010



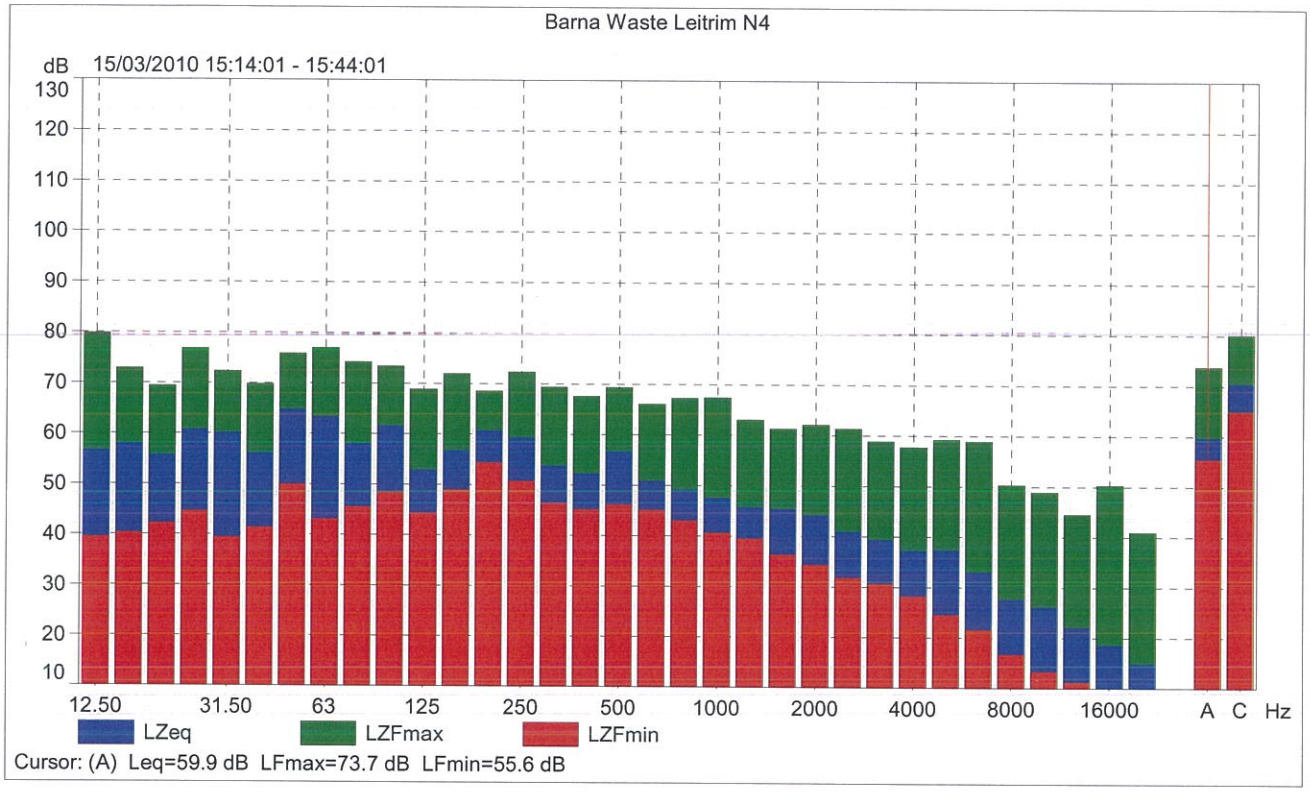
Barna Waste Leitrim N3

	Start time	End time	Overload [%]	LAFmax [dB]	LAFmin [dB]	LAeq [dB]	LAF10 [dB]	LAF90 [dB]	LCpeak [dB]
Value			0.00	87.8	53.4	62.3	64.6	55.8	103.9
Time	14:42:52	15:12:52							15:08:53
Date	15/03/2010	15/03/2010							15/03/2010



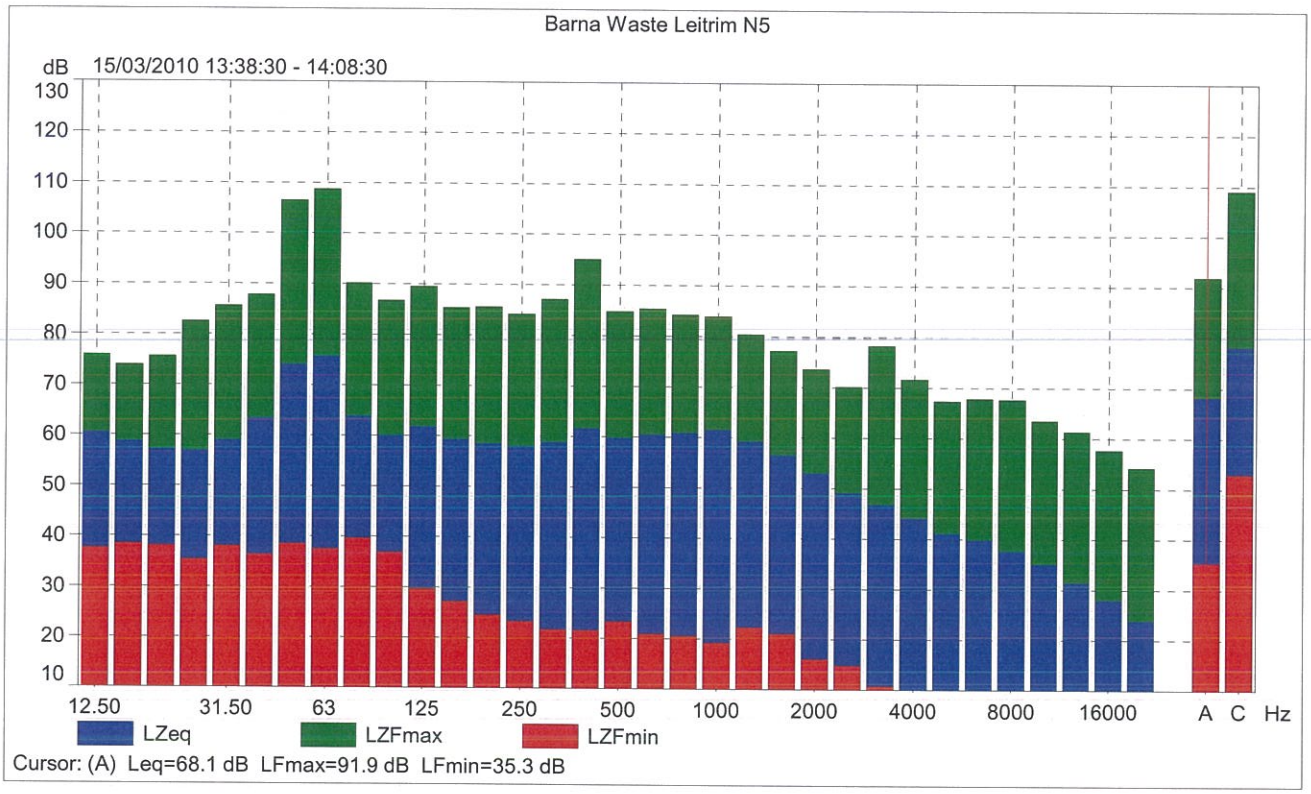
Barna Waste Leitrim N4

	Start time	End time	Overload [%]	LAFmax [dB]	LAFmin [dB]	LAeq [dB]	LAF10 [dB]	LAF90 [dB]	LCpeak [dB]
Value			0.00	73.7	55.6	59.9	61.8	57.3	91.1
Time	15:14:01	15:44:01							15:16:47
Date	15/03/2010	15/03/2010							15/03/2010



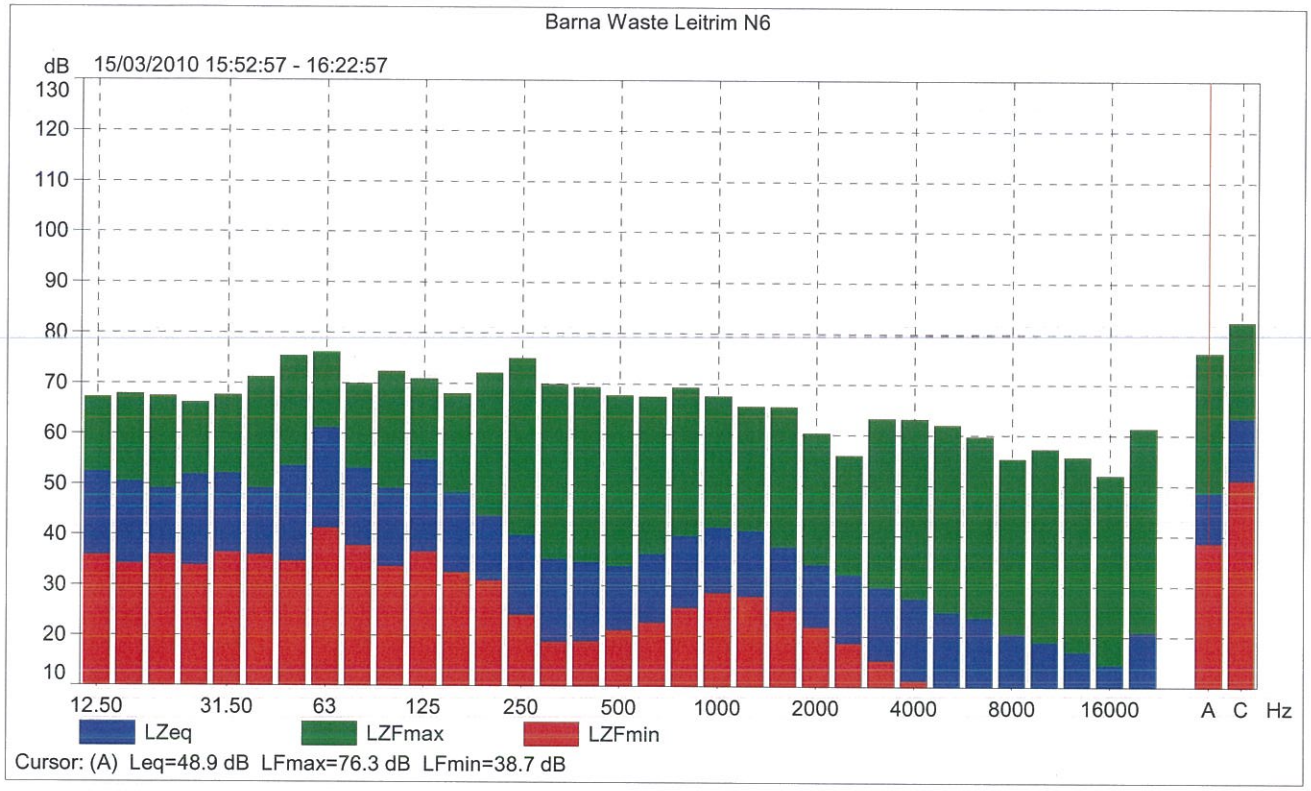
Barna Waste Leitrim N5

	Start time	End time	Overload [%]	LAFmax [dB]	LAFmin [dB]	LAeq [dB]	LAF10 [dB]	LAF90 [dB]	LCpeak [dB]
Value			0.00	91.9	35.3	68.1	67.0	40.9	114.2
Time	13:38:30	14:08:30							14:00:12
Date	15/03/2010	15/03/2010							15/03/2010



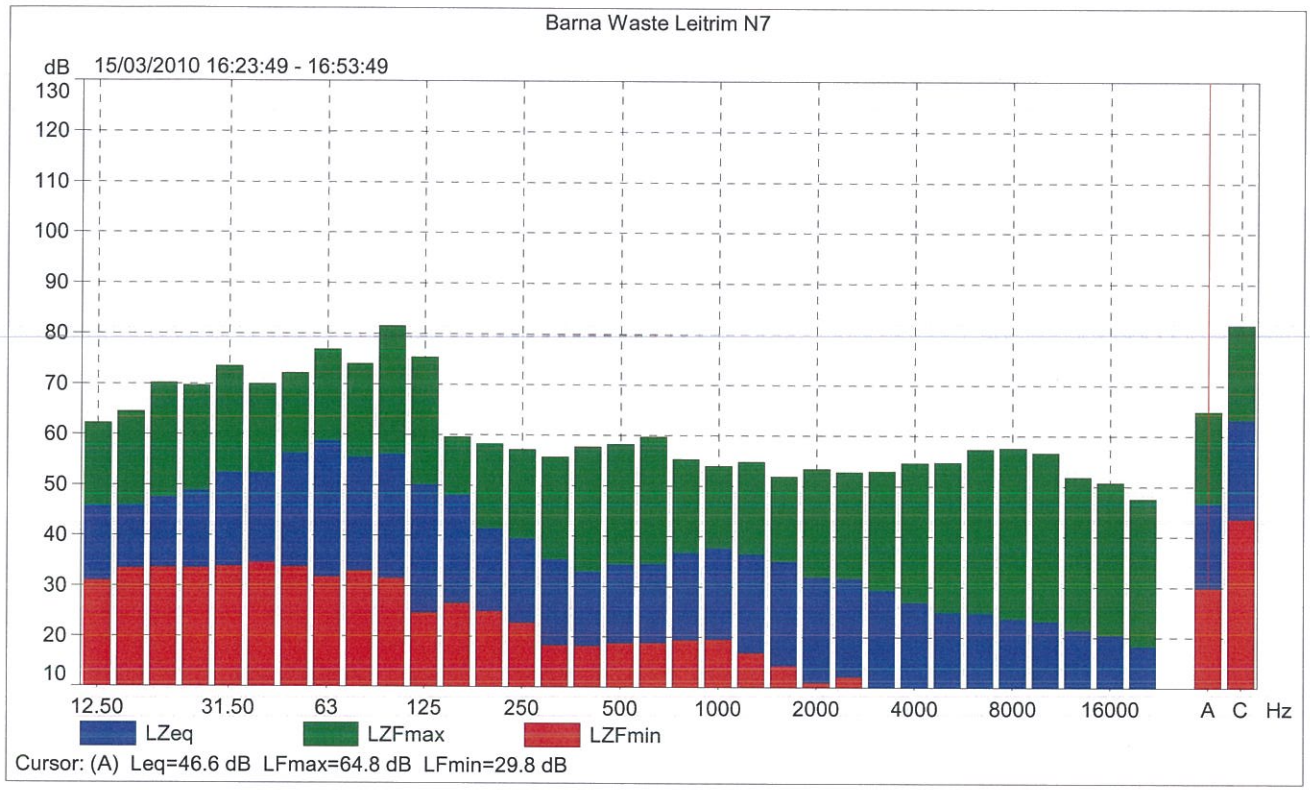
Barna Waste Leitrim N6

	Start time	End time	Overload [%]	LAFmax [dB]	LAFmin [dB]	LAeq [dB]	LAF10 [dB]	LAF90 [dB]	LCpeak [dB]
Value			0.00	76.3	38.7	48.9	51.4	43.6	100.2
Time	15:52:57	16:22:57							16:21:29
Date	15/03/2010	15/03/2010							15/03/2010



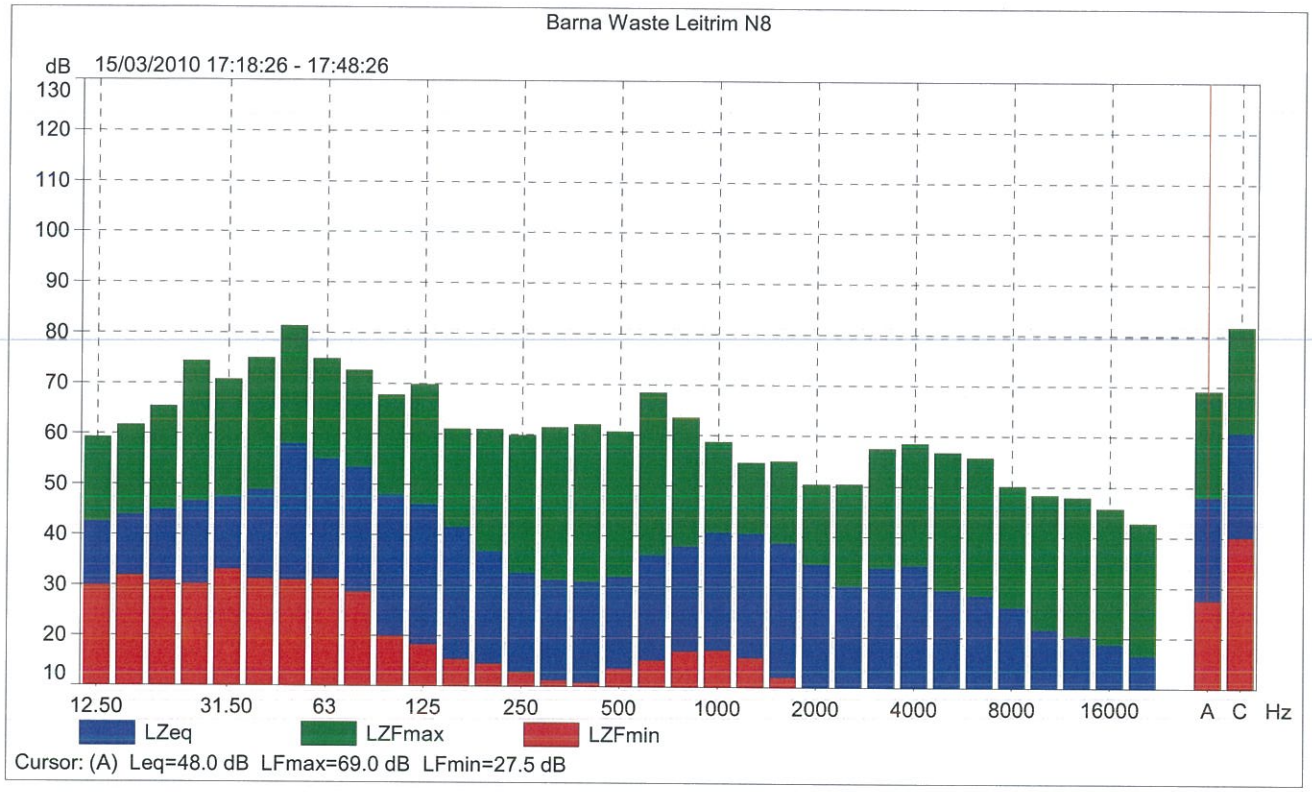
Barna Waste Leitrim N7

	Start time	End time	Overload [%]	LAFmax [dB]	LAFmin [dB]	LAeq [dB]	LAF10 [dB]	LAF90 [dB]	LCpeak [dB]
Value			0.00	64.8	29.8	46.6	49.2	38.7	89.6
Time	16:23:49	16:53:49							16:24:18
Date	15/03/2010	15/03/2010							15/03/2010



Barna Waste Leitrim N8

	Start time	End time	Overload [%]	LAFmax [dB]	LAFmin [dB]	LAeq [dB]	LAF10 [dB]	LAF90 [dB]	LCpeak [dB]
Value			0.00	69.0	27.5	48.0	51.9	34.6	92.1
Time	17:18:26	17:48:26							17:26:19
Date	15/03/2010	15/03/2010							15/03/2010



Appendix 4

Additional Information

Barna Waste T/A Joe Mc Loughlin Waste Disposal Ltd. EPA Waste Licence W0216-01			
Procedure no.	**P6**	**Description**	**Communications Programme**
Issued by:	**AC**	**Date**	**28/10/09**

1.0 Scope

Provides for public access to Environmental Information at the facility.

2.0 Responsibility

The Facility Manager is responsible for implementing this procedure

3.0 References

4.0 PROCEDURE

4.1. Condition 2.2.2.7 of Waste Licence W0216-01 requires the implementation of a communications programme to ensure that members of the public can obtain information at the facility, at all reasonable times, concerning the environmental performance of the facility.

4.2. Barna Waste T/A Joe McLoughlins Waste Disposal Ltd. will provide public access to the of following documentation on site:

- Waste Licence no. W0216-01
- Annual Environmental Report, for the previous year.

4.3. Opening hours for the inspection of these documents on site, is between 9am and 4pm, Monday to Friday

4.4. Visits to the site, for the purpose of inspection of the above documentation should be arranged in advance by ringing the Site at 071 9641103

4.5. Records of any environmental complaints made by the public in relation to McLoughlin's Facility shall be retained on site, and any such complaints responded to in accordance with P4 Environmental Complaints Procedure.

4.6. In addition, members of the public can access environmental information in relation to the Facility by visiting the EPA's Regional Inspectorate Office, John Moore Road, Castlebar, Co. Mayo, and checking the Public file. Visits must be arranged in advance by contacting the EPA at 094 9021588.

Appendix 5

Water & Fire Hydrant Flow Reading

Barna Waste T/A Joe Mc loughlin Waste Disposal Ltd. Waste Licence W0216-01			
Form no.	9	Description	Water Meter Flow Reading

Water Meter Flow Reading

Quarter 1	Flow Reading	Details/Action Required
Date:		
Quarter 2	Flow Reading	Details/Action Required
Date:		
Quarter 3	Flow Reading	Details/Action Required
Date: 30.09.10	000251	N/A
Quarter 4	Flow Reading	Details/Action Required
Date: 17.12.10	000677	N/A

Barna Waste T/A Joe Mcloughlin Waste Disposal Ltd. Waste Licence W0216-01			
Form no.	8	Description	Fire Hydrant Quarterly Flow Reading Form

Fire Hydrant Flow Reading

Quarter 1 2010	Flow Reading	Details/Action Required
Date: 26.03.10	000769	N/A
Quarter 2 2010	Flow Reading	Details/Action Required
Date: 28.06.10	000779	N/A
Quarter 3 2010	Flow Reading	Details/Action Required
Date: 30.09.10	000783	N/A
Quarter 4 2010	Flow Reading	Details/Action Required
Date: 31.12.10	000787	N/A

Barna Waste T/A Joe Mcloughlin Waste Disposal Ltd. Waste Licence W0216-01			
Form no.	8	Description	Fire Hydrant Quarterly Flow Reading Form

Fire Hydrant Flow Reading

Quarter 1 2010	Flow Reading	Details/Action Required
Date: 26.03.10	000769	N/A
Quarter 2 2010	Flow Reading	Details/Action Required
Date: 28.06.10	000779	N/A
Quarter 3 2010	Flow Reading	Details/Action Required
Date: 30.09.10	000783	N/A
Quarter 4 2010	Flow Reading	Details/Action Required
Date: 31.12.10	000787	N/A

Appendix 6

PRTR Emission Data Information

Environmental Protection Agency

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.11

REFERENCE YEAR	2010

1. FACILITY IDENTIFICATION

Parent Company Name	Barna Waste
Facility Name	Barna Waste
PRTR Identification Number	W0216
Licence Number	W0216-01

Waste or IPPC Classes of Activity

No.	class_name
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.
4.13	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	Ardcolum
Address 2	Drumshanbo
Address 3	Co Leitrim
Address 4	
Country	Ireland
Coordinates of Location	-8.06202 54.0417
River Basin District	IEGBNISH
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Ann Clarke
AER Returns Contact Email Address	ann@jmlwaste.ie
AER Returns Contact Position	Facility Manager
AER Returns Contact Telephone Number	071-9641103
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	071-9641184
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 ?	

Appendix 7

Pollution Emission Worksheet

4.1 RELEASES TO AIR

Link to previous years emissions data

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: Barna Waste

Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Used		Facility Total Capacity m3 per hour	
			Method Code	Designation or Description		
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 facility

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

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	4711.0	mixed municipal waste	D1	C	Weighed	Onsite in Ireland	Ballaghaderreen Landfill,59-2	Aghalustia,Co. Roscommon,N/A,N/A,Ireland		
Within the Country	20 03 01	No	183.0	mixed municipal waste	D1	C	Weighed	Onsite in Ireland	Derrinumera Landfill,W021-02	Newport,No,NO,Co. Mayo,Ireland		
Within the Country	20 03 01	No	123.0	mixed municipal waste	D1	C	Weighed	Onsite in Ireland	Kilconnell Landfill,W0178-02	Ballinasloe,No,Ballinsloe,Co. Galway,Ireland		
Within the Country	20 01 99	No	1396.0	other fractions not otherwise specified	R12	C	Weighed	Onsite in Ireland	Barna Waste & Recycling,W0106-02	Carrowbrowne,No,No,Co. Galway,Ireland		
Within the Country	17 02 01	No	243.0	wood	R1	C	Weighed	Onsite in Ireland	Arigna Fuels Ltd.,WFP-RN-09-003-01	Derreenauaggy Td,No,No,Co. Roscommon,Ireland		
Within the Country	15 01 01	No	203.0	paper and cardboard packaging	R12	C	Weighed	Onsite in Ireland	Failand Paper Services,ENW/029763/B	Triangle South,11,Bristol,B58 1EJ,United Kingdom		
Within the Country	15 01 01	No	320.0	paper and cardboard packaging	R12	C	Weighed	Onsite in Ireland	Leinster Environmentals,WP 2004/30	Clermont Park,No,Dundalk,Co. Louth,Ireland		
Within the Country	15 01 01	No	8.0	paper and cardboard packaging	R12	C	Weighed	Onsite in Ireland	Barna Waste & Recycling,W0106-02	Carrowbrowne,No,No,Co. Galway,Ireland		
Within the Country	20 01 01	No	71.0	paper and cardboard	R12	C	Weighed	Onsite in Ireland	Failand Paper Services,ENW/029763/B	Triangle South,11,Bristol,B58IEJ,United Kingdom		
Within the Country	**15 01 02**	**No**	99.0	plastic packaging	R12	C	Weighed	Onsite in Ireland	Leinster Environmental,WP 2004/30	Clermont Park,No,No,Co. Louth,Ireland		
Within the Country	15 01 02	No	5.0	plastic packaging	R12	C	Weighed	Onsite in Ireland	Barna Waste & Recycling ,W0106-02	Carrowbrowne,No,No,Co. Galway,Ireland		
Within the Country	15 01 07	No	198.0	glass packaging	R12	C	Weighed	Onsite in Ireland	Glassdon Ltd.,LN/08/103	Creagh Park,52,Co. Antrim,BT 41 3SE,Ireland		
Within the Country	17 01 07	No	26.0	mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	R10	C	Weighed	Onsite in Ireland	Joe Mc Loughlin Waste Disposal Ltd.,W0216-01	Aghafin,No,No,Co. Roscommon,ireland		
Within the Country	17 01 07	No	83.0	mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	R10	C	Weighed	Onsite in Ireland	Ballaghaderreen Landfill,59-2	Aghalustia,Co. Roscommon,N/A,N/A,Ireland		
Within the Country	17 01 07	No	185.0	mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	R10	C	Weighed	Onsite in Ireland	Mc Weeney,S 807/19/06/06	Tonnagh,No,No,Co. Leitrim,ireland		
Within the Country	19 12 09	No	251.0	minerals (for example sand, stones)	R10	C	Weighed	Onsite in Ireland	Ballaghaderreen Landfill,59-2	Aghalustia,Co. Roscommon,N/A,N/A,Ireland		
Within the Country	20 01 40	No	134.0	metals	R12	C	Weighed	Onsite in Ireland	Wilton Waste,WP06/30	Kiffa,No,No,Co. Cavan,Ireland		
Within the Country	20 01 40	No	31.0	metals	R12	C	Weighed	Onsite in Ireland	Barna Waste & Recycling ,W0106-02	Carrowbrowne,No,No,Co. Galway,Ireland		
Within the Country	20 01 10	No	0.63	clothes	R12	C	Weighed	Onsite in Ireland	Textile Recycling Ltd.,WPRO 14/12	Glen Abbey Complex,No,No,Co. Dublin,Ireland		
Within the Country	16 01 03	No	17.0	end-of-life tyres	R12	C	Weighed	Onsite in Ireland	OM Tyre Recycling,LN/08/08	Chapel Hill Road,No,Co. Down,BT34 2EX,Ireland		
Within the Country	20 01 08	No	154.0	biodegradable kitchen and canteen waste	R12	C	Weighed	Onsite in Ireland	Envirogrind Ltd.,ENV/143/WP04.08	Donegal Road,No,No,Co. Donegal,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