

Cover Page
Signed Declaration

**Waste License
Registration Number:** W0104-02

Licensee: Advanced Environmental Solutions (AES) (Irc and) Limited

Reporting year: 2012

I Declare that:

"All the data and information presented in this report has been checked and certified as being accurate. The quality of the information is assured to meet licence requirements"

Signature



Environmental Officer

Annual Environmental Report

**AES Tullamore
Materials Recovery Facility**

January 2012

Through

December 2012

Waste Licence Reg. No: W0104-02

Licensee: Advanced Environmental Solutions
(AES) (Ireland) Limited

Location of Activity: Daingean Road,
Cappincur,
County Offaly

Attention: Office of Environmental Enforcement
EPA Headquarters,
P.O. Box 3000,
Johnstown Castle Estate,
Co. Wexford.

Prepared by: ANUA Environmental



REVISION CONTROL TABLE**User is Responsible for Checking the Revision Status of This Document.**

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Abstracts: This report presents the Annual Environmental Report for AES Tullamore Materials Recovery Facility at Daingean Road, Cappincur, Tullamore, Co. Offaly to the Environmental Protection Agency. The report covers the annual reporting period of 2012.

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1.0 INTRODUCTION

The Environmental Protection Agency (EPA) issued Advanced Environmental Solutions (Ireland) Ltd, with a Waste Licence for its Waste Transfer Station at Cappincur Industrial Estate, Tullamore, Co. Offaly on 5th October 2009. The Waste Licence reference number is W0104-02.

The facility is currently licensed to a maximum of 50,000 tonnes of waste per annum.

In May 2007, Bord na Móna PLC acquired Advanced Environmental Solutions (AES) Ireland Ltd., one of Irelands leading waste management companies which services 5,000 commercial customers and 60,000 domestic customers.

AES Ireland Ltd. currently operates a network of recycling & transfer facilities throughout Leinster and further afield. These facilities are located in Navan, Co. Meath, Tullamore, Co. Offaly, Nenagh, Co. Tipperary and Rosslare, Co. Wexford. AES Portlaoise closed in September 2011 due to planning issues. A revised planning application for the facility was submitted to Laois County Council in 2012 and decision is expected by June 2013.

ANUA Environmental was commissioned to prepare and submit the Annual Environmental Report (AER) for the facility in compliance with Condition 11.7 of the Waste Licence. This report addresses Condition 11.7 of the Waste Licence for the facility.

This report addresses Condition 11.7 of the waste license for the facility which states;

“The licensee shall submit to the Agency, by the 31st March each year, an AER covering the previous calendar year. This report, which shall be to the satisfaction of the Agency, shall include as a minimum the information specified in Schedule E: Annual Environmental Report of this license and shall be prepared in accordance with any relevant guidelines issued by the Agency”.

This report addresses the items listed in Schedule E: Annual Environmental Report of the Waste License for the facility. This AER covers the reporting period from 1st Jan. 2012 up to 31st December 2012.

1.1 Site Description and Activities

AES operates a Waste License (W0104-02) for its Materials Recovery Facility at Cappincur Industrial Estate, Tullamore, Co. Offaly. Operations at the facility include the receipt of domestic, commercial, industrial and construction waste, which is sorted and segregated for onward recycling / recovery in accordance with the recycling potential. Waste deemed unsuitable for recycling / recovery is segregated and compacted for disposal off-site.

The site is located in the Cappincur Industrial Estate towards the east of Tullamore town, off the L-02025 road to Daingean – Figure 1.1.

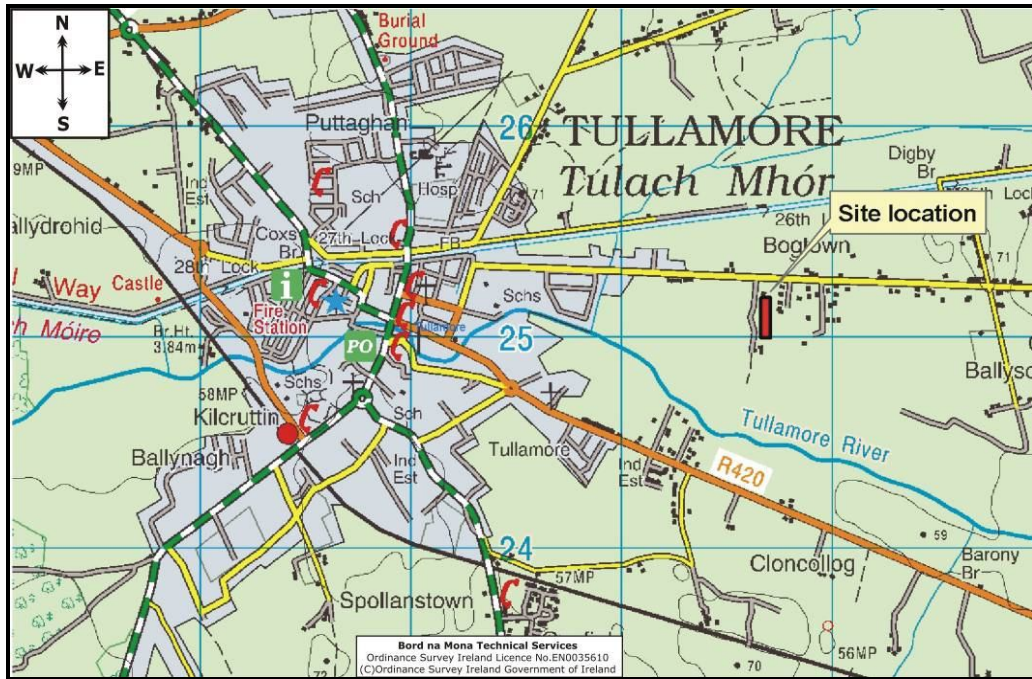


Figure 1-1: Site Location map of the AES Facility, Tullamore, Co. Offaly

The site Layout map and monitoring location maps are included in Appendix 1

1.2 Waste Handling Procedure

Normal operational hours of the site are between the hours of 07:00 to 23:00 Monday to Saturday inclusive. Waste is not accepted at the facility on Sundays or Bank Holidays.

Current waste acceptance procedures involve the use of a computer based programme, called Integrated Waste System (IWS). The software is linked to the on-site weighbridge and is used for recording waste quantities accepted on-site. Details including the waste type, EWC code, vehicle registration number, and customer are recorded on the system as per the requirements of Waste Licence W0104-02.

After weighing, waste loads are brought to the enclosed Processing Building where it is deposited on the floor for visual inspection to ensure that all wastes comply with the requirements of the Waste Licence, W0104-02. Different waste streams are accepted to different parts of the building to maximise the sorting and segregation of waste types. For example mixed dry recyclables are accepted into the recycling processing building which is accessed from the south-western end of the building. Mixed Solid waste (MSW) and commercial skip waste is deposited in the waste processing building and accessed through the north-eastern entrance.

The Operations Manager is responsible for carrying out visual inspections and for maintaining a written record of all loads. Written records of each inspection are recorded on the incoming waste inspection sheet at the end of each working day. Only after visual inspection can the waste be identified for disposal or recovery.

Within the Processing Building waste is sorted according to its recycling potential and is either deemed suitable for further onwards recycling/ recovery or compacted within one of the compactors

on site. The categories of waste deemed suitable for segregations and recycling is dependent on available markets for such materials. Materials commonly accepted for recycling include; steel & iron, cardboard & newsprint, timber, soil & stone (suitable for backfill material), green waste, plasterboard, plastics, glass and occasional empty gas cylinders.

Household mixed dry recyclables are collected by AES and accepted at the facility, where the waste is segregated by mechanical and manual means into various waste streams. Bulked recylcate is then forwarded off-site for further recycling/reprocessing and/or recovery.

All waste deemed unsuitable for recycling/ recovery is loaded into designated ejector trailers or is compacted within one of the two compactors on-site. All compacted waste is sealed within specialised containers and is subsequently transported for authorised disposal. All outgoing waste being transported from the facility is weighed and recorded at the weighbridge. An individual weigh docket is printed for each waste load which records the waste type, EWC, vehicle registration, time & date, and onward waste destination.

2.0 WASTE MANAGEMENT RECORD

The waste that arrives at the facility may be characterised as follows:

- Household Waste
- Commercial Waste
- Industrial Non-Hazardous Waste
- Construction and Demolition

These waste classification, subsequent to inspection, can be further categorised as being either suitable for recycling / recovery off-site or disposal off-site to authorised disposal facilities. Hazardous waste is not accepted at the site. Hazardous waste in the form of batteries and fluorescent tubing that are inadvertently accepted to the site are segregated into individual storage skips/areas within the plant and subsequently collected by authorised contractors for further treatment/ disposal. Any materials that are suspect in nature (i.e. hazardous are not accepted at the facility) are routed to the Waste Quarantine Area within the Recycling Plant for further examination and processing prior to removal off-site for appropriate treatment/disposal by an appropriate hazardous waste contractor.

2.1 Waste Activities carried out at the Facility.

Waste activities carried out at the facility are restricted to those outlined in *Part 1 – Activities Licensed* of the Waste License.

Licensed waste disposal activities, in accordance with the Third Schedule of the Waste Management Acts 1996 to 2008.

Class 11 Blending or mixing prior to submission of any activity referred to in a preceding paragraph of this Schedule.

Class 12 Repacking prior to submission to any activity referred to in a preceding paragraph of this Schedule.

Class 13 Storage prior to submission to any activity referred to in preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned was produced.

Licensed waste recovery activities, in accordance with the Fourth Schedule of the Waste Management Acts 1996 to 2008.

Class 2 Recycling or reclamation of organic substances which are not used as solvents (including composing and other organic processes) (P).

Class 3 Recycling or reclamation of metals or metal compounds:

Class 4 Recycling or reclamation of other inorganic materials:

Class 11 Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule:

Class 12 Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule.

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:

2.2 Waste Quantities and Composition

A summary of incoming wastes accepted at the facility in 2012 is shown in Table 3.1 below while outgoing waste (sent for onward processing/recovery/disposal) is shown in Table 3.2 overleaf.

Table 2-1: Incoming Waste to AES Tullamore 2012

EWC Code	Incoming Waste (Tonnes)
070514 – Solid wastes other than those mentioned in 07 05 13* (wastes from MFSU of pharmaceuticals)	50.37
150101 – Paper and Cardboard Packaging	5,721.14
150102 – Plastic Packaging	871.25
150103 – Wooden Packaging	94.53
150104 – Metallic Packaging	49.18
150105 - Composite Packaging	37.07
150106 – Mixed Packaging	593.57
150107 - Commercial glass packaging	413.87
150107 - Domestic glass packaging	23.48
160103 - Tyres	7.58
170102 –Bricks	14.36
170107 – Mixed concrete, brick, tiles & ceramics	121.64
170201 – Wood from C&D	562.89
170202 – C &D Glass	3.66
170203 – Plastic Piping	7.08
170405 – Steel from C & D sources	0.26
170407 – Mixed C & D Metals	552.09
170504 – Soil and Stones	21.40
170802 – Plasterboard	5.22
170904 – Mixed C&D Wastes	3,240.93
180104 – Non Hazardous Healthcare Waste	405.02
190802 - Waste from desanding	133.46
190805 – Sludge from WWTP	3.12
191210 - Combustible waste (refuse derived fuel)	152.56
191212 - Waste from mechanical treatment	10.82
200101 – Paper & Cardboard from municipal sources	123.12

EWC Code	Incoming Waste (Tonnes)
200101 - Newsprint from municipal sources	817.04
200108 – Biodegradable Canteen & Kitchen waste	595.19
200136 – Electrical equipment other than that in 20 01 21,23,35	59.48
200139 – Plastic from municipal sources	192.82
200140 - Metal from municipal sources	109.82
200201 – Garden & Park Waste	17.84
200301 – Commercial Mixed Municipal Waste	10,874.83
200301 – Domestic Mixed Municipal Waste	6,860.67
200301 – Commercial Mixed Dry Recyclables	434.36
200301 - Domestic Mixed Dry Recyclables	24,950.13
200303 – Street Cleaning Residue	190.48
200307 - Bulky Waste (Commercial skip waste)	632.31
200307 – Bulky Waste (Domestic Skip waste)	969.03
Grand Total	59,923.66

Table 2-2: Outgoing waste recovered / Disposed from AES Tullamore in 2012

EWC Code	Outgoing Waste (tonne)	Destination Name	Destination Address	License No.
150101	532.78	Boost Recycling	47 Swaffham Rd., Burwell Cambridge,UK. CB25 0AN	Broker
	272.82	Cellmark	Benelux BV, Heuel 7, NL 5664,	Broker
	5601.02	(MLM)ACM Europe (UK)	Adamson House, Towers Bus.Pk. Wilmslow Rd., Didsbury, UK. 20 2YY	TFS RegIreland/G022/12
	195.46	N.N.VOPC	Merksplas, Antwerp, Belgium	
	14957.2	Peute	Baanhoekweg 4, 3313 LA Dordrecht, Holland	OPK 2002
150102	376.92	Asia Global Trade Ltd	Suite 5, 30 Lancaster Gate London, W2 3PL	Broker
	239.42	Alternate Waste	Unit 2, Britannia Bus Pk., Pt Pleasant Ind. Est. Wallsend. Tyne &	EA.WML/73274
	79.86	Cherry Polymers	Unit 5, Nutts Corner Business pk., Dundrod rd. Crumlin Co. Antrim BT29 4SP	WMEX01/31
	10.02	Cynar	Clonmainham Ind Estate, Portlaoise, Co. Laois.	WFP-LS-09-0005-01
	325.38	GFSL	96 Toft Hill, Bishop Auckland, County Durham, UK.	Broker
	347.04	JFC Plastics	Weir Rd., Tuam, Co. Galway	

EWC Code	Outgoing Waste (tonne)	Destination Name	Destination Address	License No.
	615.303	Leinster Environmental	Clermont Business Park, Haggardstown, Dundalk, Co. Louth	
	460.36	Peute	Baanhoekweg 4, 3313 LA Dordrecht, Holland	OPK 2002
	5.22	Polymer Recovery	Portarlinton Ind Est, East Canal Rd, Portarlinton, Co. Laois	WFP-LS-09-0007-01
	698.74	Shabbra	Killycard Industrial Est., Castleblaney, Co. Monaghan	WFP 08-0022-01
	55.1	Weirwaste W.E.R.S	Tuam Business Park, Weir Road, Tuam, Co. Galway	WCP-MO-09-0608-02
150103	52.66	Macs	Co. Kildare	
	10.74	Thornton Waste Disposal Ltd	Killeen Rd. Ballyfermot, Dublin 10	W0044-02
150104	171.94	GFSL	96 Toft Hill, Bishop Auckland, County Durham, UK.	
	521.78	Hammond Lane	Garrycastle, Athlone, Co. Westmeath	WP173-2008
	236.3	Tandom metallurgical Group	Congleton, Cheshire, England.	
	25.96	Wilton	Kiffa, Ballyjamesduff, Co. Cavan	WFP/CN/10/000 5/01(1)
150107	18.86	John Gannon &	Hazelwood, Kilbeggan, Co Westmeath, Ireland	
	423.1	Glassco	Unit 4 osberstown Ind Est, Naas, Co. Kildare	WFP-KE-08-0357-01
160103	6.94	Agnailtd	Ebiana Hse, Marrowbone Lane, Dublin 8.	IREAG 117/12
	6.56	ROC	Ballymacken, Ind. Est., Portlaoise, Co. Laois	WFP-LS-11-0001-01
170107	820.86	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
170201	67.96	Macs Pallets	Kildare, Ireland	
	517.19	Thornton Waste Disposal Ltd	Killeen Rd. Ballyfermot, Dublin 10	W0044-02
	44.98	Wilton	Kiffa, Ballyjamesduff, Co. Cavan	WFP/CN/10/000 5/01(1)
170407	55.58	Erin Recycling	Deepwater Quay, Finisklin, Sligo Harbour, Co. Sligo	WPSO-08-93
	662.66	Hammond Lane	Garrycastle, Athlone, Co. Westmeath	WP173-2008

EWC Code	Outgoing Waste (tonne)	Destination Name	Destination Address	License No.
	12.82	Multimetals	Bollarney, The Murrough, Wicklow, Co. Wicklow	09/0014/01
170504	316.94	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
170904	752.84	Enva Waste	Clonmainham Ind Est., Portlaoise, Co. Laois	W0184-01
	477.02	Panda	Rathdrinagh, Beauparc, Navan, Co. Meath	W0140-04
191212	64.86	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
	1758.58	Greyhound	Crag Avenue, Clondalkin Ind Est., Dublin 22	W0205-01
	98.7	Enva Waste	Clonmainham Ind Est., Portlaoise, Co. Laois	W0184-01
	20.14	Oxigen Environmental Ltd	Merrywell Ind Est, Ballymount, Dublin 18.	W0208-02
	608.4	Oxigen	Merrywell Ind Est, Ballymount, Dublin 18.	W0208-02
	212.96	Panda	Rathdrinagh, Beauparc, Navan, Co. Meath	W0140-04
	2680.15	Thornton Waste Disposal Ltd	Killeen Rd. Ballyfermot, Dublin 10	W0044-02
200101	237.22	Cellmark	Benelux BV, Heuel 7, NL 5664, Geldrop, Netherlands	
	121.62	Erin Recyclers	Deepwater Quay, Finisklin, Sligo Harbour, Co. Sligo	WPSO-08-93
	25.38	Panda	Rathdrinagh, Beauparc, Navan, Co. Meath	W0140-04
	288.56	Peute	Baanhoekweg 4, 3313 LA Dordrecht, Holland	OPK 2002
	143.04	Recycle 2000	Wexford Enterprise Centre, Rosslare Road, Wexford	WFP-WX-09-0004-01
200108	262.04	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
	119.04	O'Toole Composting	Ballintrane, Fennagh, Co. Carlow, Ireland	WP 01-07
200139	1.88	Envgreen	60 Largy Rd, Ballymena, BT44 8BY	
	120.497	Leinster Environmental	Clermont Business Park, Haggardstown, Dundalk, Co. Louth	WP2008/06

EWC Code	Outgoing Waste (tonne)	Destination Name	Destination Address	License No.
	53.26	Plasper	Pol. Ind. Font de la Parera. Bonaventura Aribau, Barcelona, Spain	
	17.54	Polymer Recovery	Portarlinton Ind Est, East Canal Rd, Portarlinton, Co. Laois	WFP-LS-09-0007-01
	11.96	Springfield Plastics	Dromcollogher, Broadford Village, Broadford, Co. Limerick	WFP/LK/2012/21B
200201	12.92	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
	12.02	BNM Kilberry	Kilberry, Co. Kildare	W0198-01
	9.12	O'Toole Composting	Ballintrane, Fennagh, Co. Carlow, Ireland	WP 01-07
200301	16068.3	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
	7190.63	Laois Landfill	Kyletalesha, Portlaoise, Co. Laois	W0026-03
	66.62	Enva Waste	Clonmainham Ind Est., Portlaoise, Co. Laois	W0184-01
	116.62	Oxigen Environmental Ltd	Merrywell Ind Est, Ballymount, Dublin 18.	W0208-02
	10.98	Panda	Rathdrinagh, Beauparc, Navan, Co. Meath	W0140-04
	19.9	Thornton Waste Disposal Ltd	Killeen Rd. Ballyfermot, Dublin 10	W0044-02
200303	195.88	Drehid WMF	Killinagh Upper, Carbury, Co. Kildare	W0201-03
Grand	60,525.14 tonnes			

3.0 EMISSIONS FROM THE FACILITY

Emissions as per Schedule B of the Waste Licence, W0104-02. Surface-water, ground-water, dust and noise monitoring results are discussed in Section 6 of this report.

Foul water (EWC produced at the facility is tankered off site for final disposal. A total of 55.58 tonnes was tankered off site during the 2012 reporting period.

4.0 RESOURCE AND ENERGY CONSUMPTION

4.1 Resource Consumption Summary

Water usage on-site is not monitored therefore, calculation of water usage is not possible at present. Water usage is limited to water used in canteens, toilets however and no water is consumed as part of the waste management activities occurring onsite

In February 2012, a diesel tank was installed onsite to facilitate fuelling of Waste collection vehicles, the total gas oil for the facility, including plant and heating oil was 142,322 Litres. The total road diesel used was 189,700 Litres.

The total electrical consumption at the site was 621,040 ESB Units during the reporting period.

During the same period the total volume of wastewater that was tankered offsite to a Wastewater Treatment Facility was 55.58 tonnes.

4.2 Energy Efficiency Audit Report Summary

To comply with Condition 7.1 of the Waste Licence an Energy Efficiency Audit Report was submitted to the EPA during 2009. In 2012, the findings of the report were implemented, where feasible. Please refer to the Progress against Targets for 2012 in Table 5.1 for more details.

4.3 Raw Materials Consumption & Waste Energy.

The site has initiated an internal waste awareness campaign. AES have installed recycling bins at every site and dedicated desk trays to collect office paper for recycling to improve the efficiency of the use of raw materials in processes and the reduction in waste generated on-site.

5.0 ENVIRONMENTAL OBJECTIVES & TARGETS

5.1 Progress against Targets for 2012

Details on progress made against the Targets for 2012 are presented in Table 5.1.

Table 5-1: Progress against Targets set in 2012

Ref	Objective	Target	Timescale	Responsible	Progress
1	Environmental Management System	To Maintain EMS to ISO 140001 Standard	On-Going	Env Team	Achieved - NSAI surveillance audit completed in May 2012 and passed
		Conduct monthly EMS meetings	Apr-12	Env Team	Monthly meetings maintained and if no meeting was possible a bi-monthly meeting was held
2	Energy Efficiency Audit	To Review the Energy Efficiency Audit report and implement findings to reduce energy usage at the facility	May-12	PH/CG	On review it was considered that in order to make real energy efficiencies the internal materials recovery facility plant would need to be upgraded. This plan was investigated in late 2012 and has been itemised for 2013
3	Dust Suppression	To Install a dust suppression system inside the waste transfer building	Jun-12	PH	Health and Safety Personnel arranged an assessment of the ventilation and it was considered that a dust suppression system was not required
4	Roll out of Brown Bin	To continue the roll out of 3 bin system	On-Going	PH	Brown bin roll out completed for Laois, Mullingar, Athlone and Kinnegad in 2012
5	Vehicle Re-routing	Re-routing of waste collection routes to improve efficiency	On-Going	COB	Route optimisation completed for North Kildare, South Kildare and Parts of Laois
6	Glass Bin	Roll out of glass bin collection service to be trialled in Mullingar town	May-12	PH	Glass bins rolled out to Mullingar and Athlone
7	Minimise Dust Nuisance offsite	Erect Netting around perimeter fencing	Jun-12	PH	Completed
8	On-site waste reduction	Continue to encourage on-site recycling, recycling office waste	Dec-12	Team	On-going

9	Ensure Compliance with Waste Licence	Review Waste licence to accommodate increased tonnages at the facility	Dec-12	PH/CG	Planning application was submitted to Offaly County Council in 2012 and planning was obtained to increase tonnage from 50,000tpa to 60,000tpa. AES submitted a Waste Licence Review application in January 2013
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5.2 Schedule of Objectives and Targets for 2013

The proposed schedule of Objectives and Targets for 2013 is presented in Table 5.2.

Table 5-2: Proposed Schedule of Objectives and Targets for 2013

Ref	Objective	Target	Timescale	Responsibility
1	Maintain EMS	To maintain existing ISO14001:2004 standards	On-Going	Team
		Conduct monthly EMS meetings	Apr-12	PH/CG/HB/MS
2	Conservation of Fuel usage	Continue the Route optimisation project in 2013 to cover Westmeath, Offaly and Roscommon	On-Going	COB
		Introduce Split lift Waste collection Vehicles on certain urban routes to reduce the number of vehicle on the road	Jul-13	COB
3	Reduce the number of complaints/Incidents from route collection	Install CCTV cameras on waste collection vehicles to track activities on a day to day basis	Jul-13	PH
4	Increase efficiencies in waste recovery	Upgrade the material recovery plant with the waste processing building to increase the volume and efficiency of waste recovery	Jun-13	PH
5	On-site waste reduction	Continue to encourage on-site recycling of office waste	Dec-12	Team
6	Prevent Exceedance of emission limit values	Increase frequency of yard sweeping and improve general housekeeping.	On-Going	PH/HB
		Move the storage of wheelie bins away from GW2	Apr-13	CG

Table 6-2: Noise Monitoring results

Location No.	Measurement Period (mins.)	Start Time	LA _{eq} dB(A)	L ₁₀ dB(A)	L ₉₀ dB(A)	L _{AFMax} dB(A)
N1	30	8:58	66	68	59	84
N2	30	10:17	65	66	56	99
N3	30	10:53	63	65	53	81
N4	30	9:39	65	68	55	86
NSL	30	11:33	56	61	38	72

Note: Results in red **bold text** represent an exceedence of the Waste Facility Permit Limit.

Noise exceedences of the EPA guideline limit (55 dB(A)) were noted at all monitoring locations. The primary cause of exceedences at N1 and N2 situated to the front of the site may be attributed to heavy traffic on the nearby Tullamore Bypass and adjacent Daingean Road.

Noise exceedences at the rear of the site (N3 & N4) were primarily due to; traffic entering/exiting the rear of the site, traffic on the Tullamore bypass and dog barking from the dog pound on the southern boundary.

The dominant source of noise detected at the NSL was passing traffic (cars, vans, jeeps and lorries). Activity within the AES facility is not audible from this monitoring location during the monitoring event.

Tonal noise was not detected during any of the monitoring events.

6.2 Ambient Monitoring Summary

In compliance with the requirements of the Waste License, W0104-02, dust monitoring at the Tullamore Waste Transfer Station was carried out three times during the 2012 reporting period. There are four dust monitoring locations on site, detailed in Table 6.3, and the locations are identified in Appendix 1

Table 6-3: Dust Monitoring Locations

Monitoring Location	Description
D1	North western corner of the facility
D2	North eastern corner of facility
D3	South western corner of facility
D4	South eastern corner of the facility

Four dust sample jars were installed for a 28 day period; 7th Feb. – 6th March (Round 1), for a 32 day period 10th May – 11th June (Round 2) and finally for a 28 day monitoring period 12th July – 9th August (Round 3). The results for the monitoring are presented in Table 6.4.

Table 6-4: Dust Monitoring Results (mg/m²/day)

Monitoring Location	Dust Deposition Limit	Deposition Rate 7 th Feb - 6 th Mar	Deposition Rate 10 th May -11 th Jun	Deposition Rate 12 th Jul - 9 th Aug
D1	350	197	280	178
D2	350	160	463	191
D3	350	61	226	160
D4	350	43	500	61

Note 1: Results highlighted in **red bold** represent exceedance of license limits.

As can be seen in Table 6.4, there were no exceedances noted for the January / February and July / August depositional dust monitoring events.

During the May/June monitoring event, location D2 (463 mg/m²/day) exceeded the license limit. This exceedance was attributed to passing traffic on the Tullamore Bypass (120m approx.) and Tullamore Daingean Road (12m approx). This dust sample jar was not screened from these nearby roads and was therefore subject to dust created from grit particles becoming entrained in tyres of passing vehicles.

During the May/June monitoring event, location D4 (500 mg/m²/day) exceeded the Waste Licence limit. This result is not deemed representative of dust emissions from site at this location as the sample jar was heavily contaminated with a large insect quantity and some suspended solids.

6.3 Groundwater Monitoring Report Summary

In accordance with the requirements of the company’s Waste Licence, W0104- 02, AES are required to conduct monitoring of the Groundwater underlying the Tullamore facility on a quarterly basis. Monitoring was carried out at the three monitoring locations detailed in Table 6.5 and outlined in monitoring map attached in Appendix 1.

Table 6-5: Location of groundwater Sampling wells

Sample Point	Location	Grid Reference
GW-1	North-east corner of site	235683 E 225122 N
GW-2	South-east corner beside bin storage area	235717 E 225243 N
GW-3	South-west beside loading bay	235648 E 225156 N

Groundwater monitoring was undertaken on 14th February (ECS4123), 24th April (ECS4124), 17th July (ECS4125) and 25th October (ECS4126) and the results are presented in Table 6.6.

Table 6-6: Groundwater Monitoring Results 2012

Groundwater Monitoring Results 2012					
	GW-1- A				
Report Ref.	ECS4123	ECS4124	ECS4125	ECS4126	GTV’s ^{Note1}
Parameter	Round 1	Round 2	Round 3	Round 4	
pH (pH units)	7.6	7.5	7.26	7.51	6.5-9.5
Temperature (°C)	10.6	11.6	12.1	12.1	-
Odour	No Odour	No Odour	No Odour	No Odour	-

Conductivity (µS/cm)	572	549	534	534	800-1875
Ammonia as N (mg/l)	0.06	0.03	0.04	0.04	0.05-0.136*
DRO (mg/l)	<0.01	<0.01	<0.01	<0.01	-
Mineral oil (mg/l)	<0.01	<0.01	<0.01	<0.01	-
GW-2					
Report Ref.	ECS4123	ECS4124	ECS4125	ECS4126	GTV's ^{Note1}
Parameter	Round 1	Round 2	Round 3	Round 4	
pH (pH units)	7.4	7.5	7.35	7.63	6.5-9.5
Temperature (°C)	12.1	10.7	11.5	12.0	-
Odour	No Odour	No Odour	Faint Odour	No Odour	-
Conductivity (µS/cm)	562	561	557	556	800-1875
Ammonia as N (mg/l)	<0.02	0.07	0.05	0.04	0.05-0.136*
DRO (mg/l)	<0.01	<0.01	<0.01	<0.01	-
Mineral oil (mg/l)	<0.01	<0.01	<0.01	<0.01	-
GW-3					
Report Ref.	ECS4123	ECS4124	ECS4125	ECS4126	GTV's ^{Note1}
Parameter	Round 1	Round 2	Round 3	Round 4	
pH (pH units)	7.3	7.6	7.35	7.59	6.5-9.5
Temperature (°C)	12	11.3	12.3	12.9	-
Odour	No Odour	No Odour	No Odour	No Odour	-
Conductivity (µS/cm)	540	534	535	539	800-1875
Ammonia as N (mg/l)	0.02	0.03	0.03	0.03	0.05-0.136*
DRO (mg/l)	<0.01	<0.01	<0.01	<0.01	-
Mineral oil (mg/l)	<0.01	<0.01	<0.01	<0.01	-

Table 6-7: Annual Groundwater Monitoring Results 2012 ECS4123

Parameter	GW-1	GW-2	GW 3	IGV Note1
Nitrate-N (mg/l)	<0.2	<0.2	<0.2	-
Nitrate as NO ₃ (mg/l)	<0.89	<0.89	<0.89	25
Total Nitrogen (mg/l)	2.15	2.06	2.06	-
Chloride (mg/l)	13	13	13	30
Fluoride (mg/l)	0.18	0.17	0.20	1.0 ^{Note 2}
Arsenic (mg/l)	0.003	0.018	0.009	0.01
Mercury (mg/l)	<0.001	<0.001	<0.001	0.001
Sulphate (mg/l)	8.36	10.27	11.16	200
COD (mg/l)	<10	<10	<10	-
TOC (mg/l)	<5	<5	<5	-
Faecal Coliforms (cfu/100ml)	0	0	0	-
Total Coliforms (cfu/100ml)	>100	22	4	-
VOC's (µg/l)	<10	<10	<10	10 ^{Note 2}
Pesticides Suite (µg/l)	<0.01	<0.01	<0.01	0.5
SVOC's (µg/l)	3.07	3.21	2.90	-
Bis(2-ethylhexyl)phthalate				-
All other SVOC's (µg/l)	<1	<1	<1	-

Note 1: GTV = Groundwater Threshold Values refers to "European Communities Environmental Objectives (Groundwater) Regulations, 2010 (S.I. No. 9 of 2010)". "Threshold Values" have been established for pollutants that are causing a risk to groundwater bodies. Exceedance of a relevant threshold value at a representative monitoring point triggers further investigation to confirm whether the criteria for poor groundwater chemical status are being met.

Note 2: Results highlighted in bold represent exceedences of Waste Licence limits.

All parameters tested for each monitoring event were within their respective GTV's

6.4 Surface-water monitoring report summary.

In accordance with the requirements of the Waste Licence, W0104-02, the facility is required to conduct monitoring of surface-water on a quarterly basis. Surface water is sampled at one location as detailed in Table 6.8 below and included in Appendix 1 (map of monitoring locations).

Table 6-8: Surface water monitoring Location

Monitoring Location	Description
SW-1 (Formerly SW-2)	South west corner of facility (Discharge Point) (Southern Boundary)

Surfacewater monitoring was undertaken on 14th February (ECS4123), 24th April (ECS4124), 17th July (ECS4125) and 25th October (ECS4126) and the results are presented in Table 6.8.

Table 6-9: Surface water Monitoring results (SW1)

Surface Water Monitoring Results.(SW-1)					
Parameter	ECS4123	ECS4124	ECS4125	ECS4126	Waste licence Discharge limit <small>Note 1</small>
Report Ref.	Round 1	Round 2	Round 3	Round 4	
pH (pH units)	7.2	7.5	7.53	8.0	6-9
Conductivity μS/cm @ 25°C	559	-	757	691	1000
On-Site Visual Inspection	Clear/Faint Grey, No S.Solids	Faint Grey, No SS	Clear, Some fine S.Solids	Clear, Some S.Solids	-
Odour	None	None	None	V.Faint Earthy	-
BOD (mg/l)	<2	<2	2	7	5
COD (mg/l)	11	12	47	36	-
Susp. Solids (mg/l)	7	<5	28	7	25
Ammonia as N (mg/l)	1.24	0.83	0.73	0.48	1
Chloride (mg/l)	35	32	16	28	250
Mineral Oil (mg/l)	<0.01	<0.01	<0.01	<0.01	5

Notes 1: Surface Water limits for discharge point only, as per Waste Licence (Ref No. W0104-02)

Notes 2: Results highlighted in bold represent parameters which have exceeded their respective limits.

During quarter 1, the Ammonia concentration (1.24 mg/l) exceeded the Waste License limit (1mg/l).

During quarter 3; the Suspended Solids (36mg/l) exceeded the Waste License Limit (25mg/l). It is worth noting that the excessive rainfall during July 2012 (Almost twice that of July 2011) would have contributed significantly to this exceedence.

In quarter 4, the BOD concentration (7mg/l) exceeded the Waste Licence limit of 5mg/l.

6.5 Tank and Pipeline Testing & Inspection Reports

Condition 6.7 of the Waste License states;

“The integrity and water tightness of all underground pipes and tanks and their resistance to penetration by water or other materials carried or stored therein shall be tested and demonstrated by the licensee. The testing shall be carried out by the licensee at least once every three years thereafter and reported to the Agency on each occasion. A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee”

Integrity Testing of the following bunds was carried out on the 11-12th October 2012 and found to be compliant (Report Ref; ECS4376).

1. Oil Storage Bund
2. Diesel Storage Bund

The next bund integrity test is due to be carried out in the 2015 reporting period.

6.6 Environmental Management Programme

The Environmental Management Programme (EMP) form part of the objectives and Targets for the facility, presented in Tables 5.1 & 5.2.

7.0 SITE DEVELOPMENT/INFRASTRUCTURAL WORKS

7.1 Current Infrastructure in-place

The facility is currently licensed to accept a maximum of 50,000 tonnes of waste per annum. The site has calculated the duty capacity and stand-by capacity for the plant. The current waste handling and processing equipment is capable of handling up to as follows:

MRF Line (in current configuration), 100 tonnes per day, Industrial bailer, 200 tonnes per day, C&D area, 140 tonnes per day. Total = 88,000 tonnes per annum (i.e. assuming all MRF line material is bailed). The machinery and equipment currently on-site during 2012, is presented in Table 7.1.

Table 7-1: Summary List of Plant machinery on site

Details	Number
Roro Trucks	6
Skip Trucks	7
RCV Trucks	7
Glass Truck	1
Rigid Cardboard Tuck	1
Vans	6
Diggers	2
Cherry Picker	1
Road Sweeper	1
Bobcats	2
Forktrucks	3
Baler	1
Shredder (Paper)	1
Shunter	1
MRF	1

7.2 Site Development Works during 2012

The following development works were completed in 2012 at the AES Tullamore

1. Decommission GW1 and drill new GW1A monitoring well along northern boundary.
2. Install a diesel tank on the southern boundary onsite - see attached.
3. Erect netting along boundary fencing to prevent windblown items.
4. Routine maintenance - conduct repairs to guttering and patch areas of yard with
5. concrete.

7.3 Proposed Development Works for 2013

It is proposed to carry out the following site development works at the AES Tullamore facility;

In 2012 AES installed a groundwater monitoring well located at GW1A to replace GW1 which had become damaged during construction activities and subsequently decommissioned. In addition AES successfully sought approval from the EPA in install a new Diesel tank onsite which was granted on the 28th February 2012 (see Appendix 4).

In 2013 AES proposes to upgrade some of the internal plant and equipment in the Materials recovery Facility this will lead to throughput efficiencies in processing mixed dry recyclables

8.0 ENVIRONMENTAL LIABILITIES

The environmental liabilities are those considered to be restricted to the confines of the facility, therefore, any costs incurred in addressing same will be limited to removal and safe disposal of waste remaining on-site following an emergency event (e.g. fire or spillage) or the decommissioning and closure of the site. Such environmental liabilities cover should account for the cost of the clean up and removal of the maximum amount of waste that may be stored on site at any given time.

AES and Bord na Móna (parent company) have arranged insurance to cover the liability arising from damage to property and injury to parties as a result of sudden and unforeseen environmental impairment. AES have insurance cover for “*Business Interruption*” and have adequate reserves for the cost of removing the maximum amount of waste that may be stored on-site at any given time and to ensure that said material is transported to an authorised and capable facility.

In the unlikely event of full decommissioning, financial reserves are available to allow a formal surrender of the licence ensuring that the inherent environmental safeguard associated with this regulatory process is activated.

8.1 Environmental Liabilities Risk Assessment Review

The Environmental Liabilities Risk Assessment Report was completed and submitted to the Agency in April 2011.

9.0 FACILITY MANAGEMENT

9.1 New Procedures developed during 2012

No new procedures were developed during 2012

9.2 Review of Nuisance Controls

The current procedures were in place during 2012 for Nuisance control and are fit for purpose (summarised below). In compliance with Waste Licence, W0104-02 environmental nuisance are controlled to ensure they cause minimal impact on the immediate area.

- Waste destination for disposal may be stored within the Waste Transfer station and is generally removed from the facility within 48 hours of its arrival on-site during normal working times and within 72 hours of its arrival on-site during bank holidays. This is a waste handling procedure as part of the odour management system on-site.
- A daily inspection of the environmental nuisance controls for Vermin, Birds, Flies, Mud, Dust, Odour and litter is carried out. Nuisance inspection sheets are documented on-site on a weekly basis. A contract with a pest control company is in place to minimise environmental nuisance caused by vermin.
- All vehicles delivering waste to and removing waste and materials from the site are appropriately covered.

9.3 Incidents & Complaints Summary

All environmental incidents and complaints are recorded at the facility. During the 2012 reporting period, no complaints were received at the AES Tullamore facility.

The facility had the following incidents which were reported to the Agency;

Quarter 1

Noise exceedance at N1, N2, N3, N4 and NSL on 16th Feb 2012.

Surface water exceedance at SW-1 (Ammonia) on the 14th February 2012.

Quarter 2

Dust exceedance at D2 & D4 (10th May-11th June 2012).

Quarter 3

Surface water exceedance at SW-1 in Suspended Solids on the 17th July 2012.

Quarter 4

Surface Water exceedance at SW-1 in BOD on 25th October 2012.

9.4 Accident Prevention and Emergency Response

Condition 9.1 of the Waste Licence states:

“The licensee shall ensure that a documented Accident Prevention Procedure is in place which will address the hazards on-site, particularly in relation to the prevention of accidents with a possible impact on the environment. This procedure shall be reviewed annually and updated as necessary”.

Condition 9.2 of the Waste Licence states:

“The licensee shall... ensure that a documented Emergency Response Procedure for the facility, which shall address any emergency situation which may originate on-site. This Procedure shall include provision for minimising the effects of any emergency on the environment. This procedure shall be reviewed annually and updated as necessary”.

The accident prevention and emergency response has been prepared for the following:

EP-ERP-01_General Emergency Preparedness & Response.doc
EP-ERP-02_Spill Clean Up Procedure.doc
EP-ERP-03_Fire Explosion Procedure.doc
EP-ERP-04_Malicious Damage Procedure.doc
EP-ERP-05_Unforeseen Emergencies & Fugitive Emissions.doc
EPL 5.1_Emergency Contact List

These documents were previously submitted to the Agency in the Annual Environmental Report for the year 2011.

10.0 FACILITY MANAGEMENT

10.1 Management & Staffing Structure

The Environmental Organisation and the Site organisations structure for the site are presented in Figure 10.1

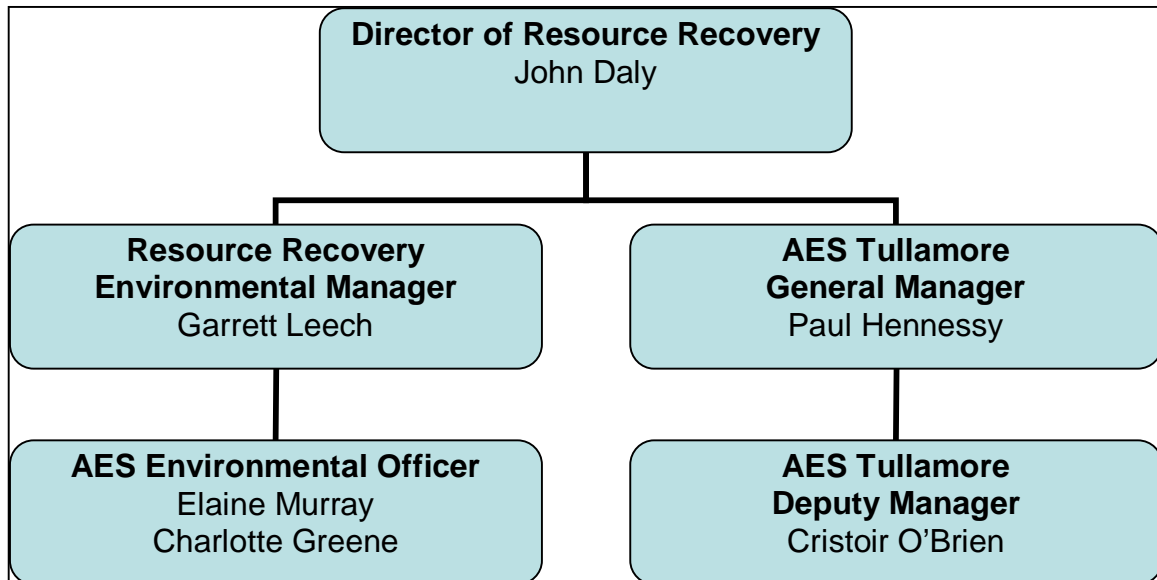


Figure 10.1: Environmental Organisation Structure

10.2 Public Information Programme

A Public Information Program is in place for the site, namely EP 16.0 Programme for Public Information. The full details are included in the Annual Environmental Report for 2010.

10.3 Procedures Developed During 2012

Since the EPA issued Advanced Environmental Solutions (Ireland) Ltd. with a Waste Licence for its facility at Cappincur Industrial Estate, Tullamore, Co. Offaly on 18th August 2009, an Environmental Management System was established and received ISO14001 certification on the 14th of January, 2010. AES was audited by the NSAI in January 2013 and have retained the accreditation for another 3 years.

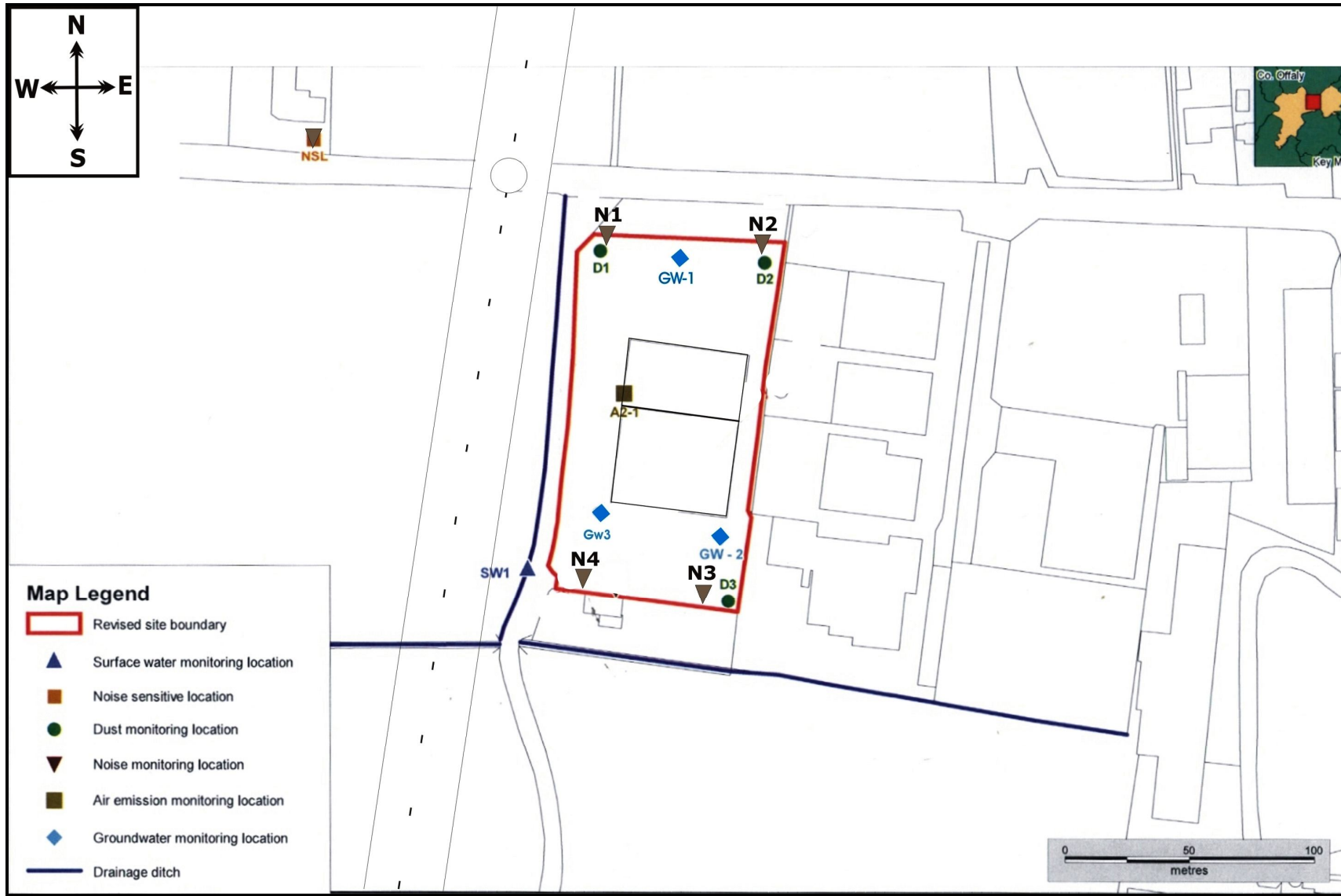
10.4 Review of Nuisance Controls

There are no nuisance/pest issues to report in 2012. AES Tullamore have a vermin control procedure in place, (Reference - WI 2.0 Site Inspection Procedure) with an associated Daily Environmental Nuisance Inspection Form (Reference - EWIF 2.2 Daily Environmental Nuisance Inspection Form). The full Procedure is included in the 2010 Annual Environmental Report submitted to the Agency in March 2011.

There are no proposed amendments for 2013 to nuisance controls.

APPENDIX 1

Drawings



APPENDIX 2

Summary of Emissions and Waste Management



Environmental Protection Agency

| PRTR# : W0104 | Facility Name : Advanced Environmental Solutions (Ireland) Ltd | Filename : W0104_2012 PRTR.xls | Return Year : 2012 |

[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

REFERENCE YEAR	2012
1. FACILITY IDENTIFICATION	
Parent Company Name	Advanced Environmental Solutions (Ireland) Limited
Facility Name	Advanced Environmental Solutions (Ireland) Ltd
PRTR Identification Number	W0104
Licence Number	W0104-02
Waste or IPPC Classes of Activity	
No.	class_name
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.
3.11	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.12	Repackaging 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.
4.12	Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule.
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	Cappancur Industrial Estate
Address 2	Cappancur
Address 3	Tullamore
Address 4	County Offaly
	Offaly
Country	Ireland
Coordinates of Location	-7.36043 53.5185
River Basin District	IEGBNISH
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	Charlotte Greene
AER Returns Contact Email Address	charlotte.greene@anua.ie
AER Returns Contact Position	Environmental Officer
AER Returns Contact Telephone Number	045-439492
AER Returns Contact Mobile Phone Number	087-7697465
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
5(c)	Installations for the disposal of non-hazardous waste
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 ?	
4. WASTE IMPORTED/ACCEPTED ONTO SITE	
Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	

[Guidance on waste imported/accepted onto site](#)

This question is only applicable if you are an IPPC or Quarry site

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : W0104 | Facility Name : Advanced Environmental Solutions (Ireland) Ltd | Filename : W0104_2012 PRTR.xls | Return Year : 2012 |

28/03/2013 11:08

Please enter all quantities on this sheet in Tonnes

49

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					
To Other Countries	15 01 01	No	532.78	paper and cardboard packaging	R13	M	Weighed	Abroad	Boost Recycling,.	47 Saffham Rd,Burwell,Cambridge,CB250A N,United Kingdom		
To Other Countries	15 01 01	No	272.82	paper and cardboard packaging	R13	M	Weighed	Abroad	Cellmark,.	Benelux BV,Heul 7,Geltrop,NL5664,Netherlands		
To Other Countries	15 01 01	No	5601.02	paper and cardboard packaging	R13	M	Weighed	Abroad	(MLM) ACM Europ (UK),.	Towers Bus. Pk.,Wilmslow Rd.,Didsbury,Manchester,United Kingdom		
To Other Countries	15 01 01	No	195.46	paper and cardboard packaging	R13	M	Weighed	Abroad	N.N. VOPC,.,Belgium		
To Other Countries	15 01 01	No	14957.2	paper and cardboard packaging	R13	M	Weighed	Abroad	Peute,.	Baanhoekweg 4 , 3313 LA Dordrecht,.,.,Netherlands		
To Other Countries	15 01 02	No	376.92	plastic packaging	R13	M	Weighed	Abroad	Asia Global Trade Ltd,.	Suite 5,30 Lancaster Gate,London,.,United Kingdom		
Within the Country	15 01 02	No	239.42	plastic packaging	R13	M	Weighed	Offsite Ireland	in AWS,EA. WML/7327	Unit 2,Brittania Business Pk.,Wallsend,Tyne & Wear,United Kingdom		
To Other Countries	15 01 02	No	79.86	plastic packaging	R13	M	Weighed	Abroad	Cherry Polymers,WSEX01/31	Unit 5 Nutts Corner Bus. Pk.,Dundrod Rd. Crumlin,Co. Antrim,.,United Kingdom		
Within the Country	15 01 02	No	10.02	plastic packaging	R13	M	Weighed	Offsite Ireland	in Cynar,WFP-LS-09-0005-01	Unit 2,Clonmainham Ind Est,Portlaoise,Co. Laois,Ireland		
To Other Countries	15 01 02	No	325.38	plastic packaging	R13	M	Weighed	Abroad	GFSL,na	96 Toft Hill,Bishop Auckland,County Durham,DL14 OJA,United Kingdom		
Within the Country	15 01 02	No	347.04	plastic packaging	R13	M	Weighed	Offsite Ireland	in JFC Plastics,WP	Weir Road,Tuam,Co. Galway,.,Ireland		
To Other Countries	15 01 02	No	615.303	plastic packaging	R13	M	Weighed	Abroad	Leinster Environmental,WP2008 /06	Clermont Bus Pk.,Haggardstown,Dundalk Co. Louth,.,Ireland		
Within the Country	15 01 02	No	460.36	plastic packaging	R13	M	Weighed	Offsite Ireland	in Peute,.	Baanhoekweg 4 , 3313 LA Dordrecht,.,.,Netherlands		
Within the Country	15 01 02	No	5.22	plastic packaging	R13	M	Weighed	Offsite Ireland	in Polymer Recovery,WFP-LS-09-0007-01	Portarlinton Ind Est,East Canal Road,Portarlinton Co. Laois,.,Ireland		

To Other Countries	15 01 02	No	698.74	plastic packaging	R13	M	Weighed	Abroad	Shabbra,WFP08-0022-01	Killycard Est,Castleblaney,Co. Monaghan,,Ireland	Ind
Within the Country	15 01 02	No	55.1	plastic packaging	R13	M	Weighed	Offsite Ireland	in Weir Waste,WCP-MO-09-0608-02	Weir Rd Bus. Pk.,Tuam,Co. Galway,,Ireland	
To Other Countries	15 01 03	No	52.66	wooden packaging	R13	M	Weighed	Abroad	Macs Pallets,.	,,.,.,.,Ireland	
To Other Countries	15 01 03	No	10.74	wooden packaging	R13	M	Weighed	Abroad	Thorntons Waste ,W0044-02	Kileen Rd.,Ballyfermot,Dublin 10,,Ireland	
To Other Countries	15 01 04	No	171.94	metallic packaging	R13	M	Weighed	Abroad	GFSL,na	96 Toft Hill,Bishop Auckland,County Durham,DL14 OJA,United Kingdom	
To Other Countries	15 01 04	No	521.78	metallic packaging	R13	M	Weighed	Abroad	Hammond Lane,WFP-WM-2011-0002-01	Garrycastle,Athlone,Co. Westmeath,,Ireland	
To Other Countries	15 01 04	No	236.3	metallic packaging	R13	M	Weighed	Abroad	Tandom,.	18 Manor Valley,Weston Super Mare,,BS232SY,United Kingdom	
To Other Countries	15 01 04	No	25.96	metallic packaging	R13	M	Weighed	Abroad	Wilton Waste,W 06/03	Kiffa,Ballyjamesduff,Co. Cavan,,Ireland	
Within the Country	15 01 07	No	18.86	glass packaging	R13	M	Weighed	Offsite Ireland	in Gannons,.	,,.,.,.,Ireland	
Within the Country	15 01 07	No	423.1	glass packaging	R13	M	Weighed	Offsite Ireland	in Rehab Glassco,WFP-KE-08-0357-01	Unit 4 Osberstown Ind. Pk.,Carragh Naas,Kildare,,Ireland	
Within the Country	16 01 03	No	6.94	end-of-life tyres	R13	M	Weighed	Offsite Ireland	in Agnail Ltd,IREAG 117/12	Ebiana Hse,Marrowbone Lane,Dublin 8,,Ireland	
Within the Country	16 01 03	No	6.56	end-of-life tyres mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	R13	M	Weighed	Offsite Ireland	in ROC,WFP-LS-11-001-01	ballymacken Est,Portlaoise,Co. Laois,,Ireland	Ind
Within the Country	17 01 07	No	820.86	wood	R13	M	Weighed	Offsite Ireland	in Drehid WMF,W0201-03	Killinagh Upper,Carbury,Co. Kildare,,Ireland	
Within the Country	17 02 01	No	67.96	wood	R13	M	Weighed	Offsite Ireland	in Macs Pallets,.	,,.,.,.,Ireland	
Within the Country	17 02 01	No	517.19	wood	R13	M	Weighed	Offsite Ireland	in Thorntons Waste ,WFP-KE-10-0061-01	Kileen Rd.,Ballyfermot,Dublin 10,,Ireland	
Within the Country	17 02 01	No	44.98	wood	D1	M	Weighed	Offsite Ireland	in Wilton Waste,W 06/03	Kiffa,Ballyjamesduff,Co. Cavan,,Ireland	
Within the Country	17 04 07	No	55.58	mixed metals	R13	M	Weighed	Offsite Ireland	in Erin Recyclers,.	Deep Water Quay,Finisklin Sligo Harbour,Co. Sligo,WP-SO-08-93,Ireland	
Within the Country	17 04 07	No	662.66	mixed metals	R13	M	Weighed	Offsite Ireland	in Hammond Lane,WFP-WM-2011-0002-01	Garrycastle,Athlone,Co. Westmeath,,Ireland	
Within the Country	17 04 07	No	12.82	mixed metals	R13	M	Weighed	Offsite Ireland	in Multimetals Ltd,09/0014/01	Bollarneay,The Murrough,Wicklow,,Ireland	
Within the Country	17 05 04	No	316.94	soil and stones other than those mentioned in 17 05 03	D1	M	Weighed	Offsite Ireland	in Drehid WMF,W0201-03	Killinagh Upper,Carbury,Co. Kildare,,Ireland	
Within the Country	17 09 04	No	752.84	mixed construction and demolition wastes other than	D1	M	Weighed	Offsite Ireland	in Enva Waste,W0184-01	Clonmainham Est,Portlaoise,Co. Laois,,Ireland	Ind

																				those mentioned in 17 09 01, 17 09 02 and 17 09 03
Within Country	the	17 09 04	No	477.02		D1	M	Weighed	Offsite Ireland	in	Panda Waste,W0140-04		Rathdrinagh,Beauparc,Co. Meath,,Ireland							mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
Within Country	the	19 12 12	No	64.86		R13	M	Weighed	Offsite Ireland	in	Drehid WMF,W0201-03		Killinagh Upper,Carbury,Co. Kildare,,Ireland							other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
Within Country	the	19 12 12	No	1758.58		R13	M	Weighed	Offsite Ireland	in	Greyhound Recycling,.		Crag Avenue,Clondalkin Ind Est,Dublin 22,,Ireland							other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
Within Country	the	19 12 12	No	98.7		R13	M	Weighed	Offsite Ireland	in	Enva Waste,W0184-01		Clonmainham Est,Portlaoise,Co. Laois,,Ireland							other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
Within Country	the	19 12 12	No	20.14		D1	M	Weighed	Offsite Ireland	in	Oxigen,W0208-02		Merrywell Est.,Ballymount,Dublin 22,,Ireland							other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
To Other Countries		19 12 12	No	608.4		R13	M	Weighed	Abroad		Oxigen,W0208-02		Merrywell Est.,Ballymount,Dublin 22,,Ireland							other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
Within Country	the	19 12 12	No	212.96		R13	M	Weighed	Offsite Ireland	in	Panda Waste,W0140-04		Rathdrinagh,Beauparc,Co. Meath,,Ireland							other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
To Other Countries		19 12 12	No	2680.15		R13	M	Weighed	Abroad		Thorntons Waste ,WFP-KE-10-0061-01		Kileen Rd.,Ballyfermot,Dublin 10,,Ireland							other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
To Other Countries		20 01 01	No	237.22		R13	M	Weighed	Abroad		Cellmark,.		Benelux BV,Heul 7,Geltrop,NL5664,Netherlands							paper and cardboard

Within the Country	20 01 01	No	121.62	paper and cardboard	R13	M	Weighed	Offsite Ireland	in Erin Horticulture, Derrinlough, Birr, Co. Offaly, Ireland	JFC Ltd., Weir Rd., Tuam, Co. Galway, Ireland	Hardwick Rd., Astmoor Est., Runcorn, Cheshire, United Kingdom
Within the Country	20 01 01	No	25.38	paper and cardboard	R13	M	Weighed	Offsite Ireland	in Panda Waste, W0140-04	Rathdrinagh, Beauparc, Co. Meath, Ireland	
Within the Country	20 01 01	No	288.56	paper and cardboard	R13	M	Weighed	Offsite Ireland	in Peute, Baanhoekweg 4, 3313 LA Dordrecht, Netherlands		
Within the Country	20 01 01	No	143.04	paper and cardboard biodegradable	R13	M	Weighed	Offsite Ireland	in Recycle 2000, WFP-WX-09-0004-01	Wexford Enterprise Centre, Rosslare Rd., Co. Wexford, Ireland	
Within the Country	20 01 08	No	262.04	kitchen and canteen waste biodegradable	R13	M	Weighed	Offsite Ireland	in Drehid WMF, W0201-03	Killinagh Upper, Carbury, Co. Kildare, Ireland	
Within the Country	20 01 08	No	119.04	kitchen and canteen waste biodegradable	D1	M	Weighed	Offsite Ireland	in O'Toole Composting, Ballintrane, Carlow, Co. Carlow, Ireland		
Within the Country	20 01 39	No	1.88	plastics	R13	M	Weighed	Offsite Ireland	in Evergreen Env., 60 Largy Rd., Ballymena, BT44 8BY, Ireland		
Within the Country	20 01 39	No	120.497	plastics	D1	M	Weighed	Offsite Ireland	in Leinster Environmental, WP2008 /06	Clermont Bus Pk., Haggardstown, Dundalk Co. Louth, Ireland	
To Other Countries	20 01 39	No	53.26	plastics	R13	M	Weighed	Abroad	in Plasper, Pol Ind. Font de la Parera, Bonventura Aribau, Barcelona, ES-08430, Spain		
To Other Countries	20 01 39	No	17.54	plastics	R13	M	Weighed	Offsite Ireland	in Polymer Recovery, WFP-LS-09-0007-01	Portarlinton Ind Est, East Canal Road, Portarlinton Co. Laois, Ireland	
Within the Country	20 01 39	No	11.96	plastics	R13	M	Weighed	Offsite Ireland	in Springfield Plastics, WFP/LK/2012/21B	Dromcollogher, Broadford Village, Co. Limerick, Ireland	
Within the Country	20 02 01	No	12.92	biodegradable waste	R13	M	Weighed	Offsite Ireland	in Drehid WMF, W0201-03	Killinagh Upper, Carbury, Co. Kildare, Ireland	
Within the Country	20 02 01	No	12.02	biodegradable waste	R13	M	Weighed	Offsite Ireland	in BNM Kilberry, W0198-01	Kilberry, Athy, Co. Kildare, Ireland	
Within the Country	20 02 01	No	9.12	biodegradable waste	R13	M	Weighed	Offsite Ireland	in O'Toole Composting, Ballintrane, Carlow, Co. Carlow, Ireland		
Within the Country	20 03 01	No	16068.03	mixed waste municipal	D1	M	Weighed	Offsite Ireland	in Drehid WMF, W0201-03	Killinagh Upper, Carbury, Co. Kildare, Ireland	Ind
Within the Country	20 03 01	No	7190.63	mixed waste municipal	D1	M	Weighed	Offsite Ireland	in Laois Landfill, W0026-03	Kyletalesha, Portlaoise, Co. Laois, Ireland	
Within the Country	20 03 01	No	66.62	mixed waste municipal	R13	M	Weighed	Offsite Ireland	in Enva Waste, W0184-01	Clonmainham Est, Portlaoise, Co. Laois, Ireland	Ind
Within the Country	20 03 01	No	116.62	mixed waste municipal	R13	M	Weighed	Offsite Ireland	in Oxigen, W0208-02	Merrywell Est., Ballymount, Dublin 22, Ireland	Ind
Within the Country	20 03 01	No	10.98	mixed waste municipal	R13	M	Weighed	Offsite Ireland	in Panda Waste, W0140-04	Rathdrinagh, Beauparc, Co. Meath, Ireland	
Within the Country	20 03 01	No	19.9	mixed waste municipal	R13	M	Weighed	Offsite Ireland	in Thorntons Waste, WFP-KE-10-0061-01	Kileen Rd., Ballyfermot, Dublin 10, Ireland	
Within the Country	20 03 03	No	195.88	street-cleaning residues	D1	M	Weighed	Offsite Ireland	in Drehid WMF, W0201-03	Killinagh Upper, Carbury, Co. Kildare, Ireland	

APPENDIX 4

EPA Approval for Diesel Tank Installation



Regional Inspectorate, Seville Lodge
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Ms Charlotte Greene
Environmental Officer
Advanced Environmental Solutions (Ireland) Ltd.
Bord na Mona Recourse Recovery
Drehid Facility
Killinagh Upper, Carbury
Co Kildare

28/02/12

Our Ref: W0104-02 /AP09ID.

Dear Ms Greene


I refer to your correspondence dated 02/02/12 received by the Agency 07/02/12 concerning the installation on site of a freestanding double bunded tank designed to hold 44,000 litres of diesel.

I am to inform you that this request is to the satisfaction of the Agency. Please ensure that there are sufficient containment booms stored in the vicinity of the tank to deal with any potential spill during filling operations and that there is a written procedure, available to all staff, detailing corrective actions to be taken in the event of a diesel spill.

Please note that all correspondence to the Agency, including cover letters should be submitted in triplicate, i.e., the original and two copies.

If you have any queries in relation to this matter please contact Irene Doyle at 056 7796700. Please quote the above reference in future correspondence in relation to this matter.

Yours sincerely


Mary Frances Rochford
Regional Team Leader
Office of Environmental Enforcement

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