ANNUAL ENVIRONMENTAL REPORT

AES ROSSLARE WASTE TRANSFER STATION

JANUARY 2010
THROUGH
DECEMBER 2010

Waste Licence Registration Number: W0229-01

Licensee: Advanced Environmental Solutions (AES) Ireland Ltd

Location of Activity: Ballygillane Big/Ballyknockan, St. Helens, Kilrane, Rosslare Harbour, County Wexford.

Attention: Office of Environmental Enforcement
EPA Headquarters,
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Prepared by: Bord na Móna

BORD NA MÓNA

AES

REVISION CONTROL TABLE

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Keywords: Waste Transfer Station, Annual Environmental Report (AER), waste recovery and disposal, environmental monitoring.

Abstracts: This report presents the Annual Environmental Report for AES Rosslare Waste Transfer Station in St. Helen's, Kilrane, Rosslare Habour, Co. Wexford to the Environmental Protection Agency. The report covers the annual reporting period of 2010.

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1.0 INTRODUCTION

The Environmental Protection Agency (EPA) issued Goff Recycling Limited with a Waste Licence for its Waste Transfer Station at Ballygillane Big/Ballyknockan, St. Helen's, Kilrane, Rosslare Harbour, Co. Wexford on 9th March 2007. The Waste Licence reference number is W0229-01. This licence was transferred to Advanced Environmental Solutions (Ireland) Ltd, on 26th August 2008.

The facility is currently licensed to accept a maximum of 23,000 tonnes of waste per annum (5,400 tonnes of Household waste, 8,600 tonnes of Commercial waste, 4,000 tones of Non-hazardous Construction and Demolition (C&D) waste and 5,000 tonnes of Non-hazardous Industrial waste). The site is located in St. Helen's, south-west of Rosslare Harbour.

In May 2007, Bord na Móna PLC acquired Advanced Environmental Solution (AES) Ireland Ltd., one of Irelands leading waste management companies, which services 5,000 commercial customers and 60,000 domestic customers. The acquisition was a key part of the Bord na Móna PLC's diversification strategy and one which tied in perfectly with the existing Bord na Móna PLC areas of operation.

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, Portlaoise, Co. Laois, Nenagh, Co. Tipperary and Rosslare, Co. Wexford. Goff Recycling Ltd previously operated this waste recovery and transfer station. It was acquired by AES (Ireland) Ltd. during September 2008 and still trades as Goff Recycling.

Bord na Móna Technical Services was retained to prepare and submit the Annual Environmental Report (AER) for the facility in compliance with Condition 11.8 and Schedule E of the Waste Licence.

This report addresses Condition 11.8 of the Waste Licence for the facility.

Condition 11.8 states that:

"The licensee shall submit to the Agency, by the 31st March of 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 licence 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 Licence for the facility. This AER covers the reporting period from 1st January 2010

up to and including 31st December 2010 and provides a summary of all Waste Licence-related activities on site during this period.

1.1 Site Description and Activities

As previously referred to, AES operates a Waste Licence (W0229-01) for its Waste Transfer Station at Ballygillane Big/Ballyknockan, St. Helen's, Kilrane, Rosslare Harbour, Co. Wexford. Operations at the facility include the acceptance of domestic, commercial, industrial and construction and demolition waste, which is sorted and segregated for onward recycling/recovery in accordance with the Waste Licence for the facility. Waste deemed unsuitable for recycling/recovery is segregated and compacted for disposal off-site.

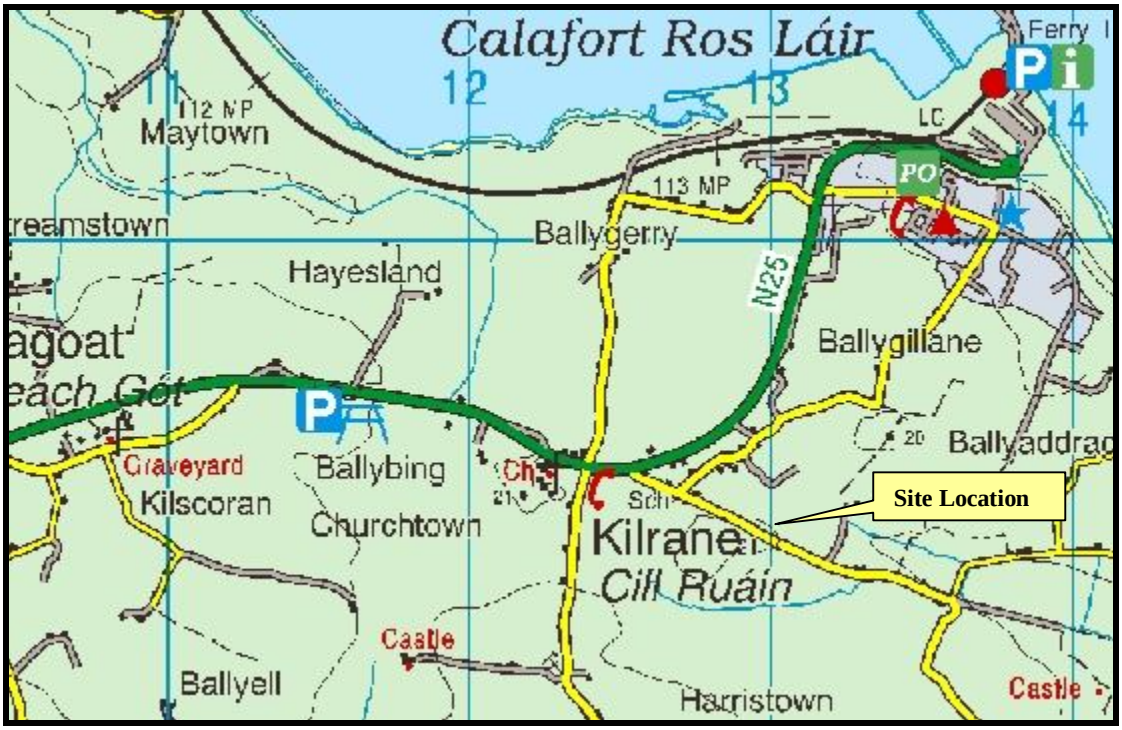

Figure 1.1: AES Rosslare Site Location

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

1.2 Waste Handling Procedure

Waste is accepted at or dispatched from the AES Rosslare facility only between the hours of 08.00 to 18.00 Monday to Friday inclusive and 8.00 to 13.00 on Saturdays. The facility is operated only during the hours of 06.00 to 20.00 Monday to Friday inclusive and 8.00 to 14.00 on Saturdays. All waste accepted at the facility for disposal is removed from the facility within 48 hours of its arrival on-site (during bank holidays/weekends waste is removed within 72 hours).

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 of waste quantities accepted on-site. The vehicle registration number, customer and product is inputted into the system and from this detail, the source of the waste can be obtained.

After weighing, each waste load is brought to the enclosed Recycling Plant Building where it is deposited on the floor for visual inspection to ensure that all wastes comply with the requirements of the Waste Licence, W0229-01. The Yard Foreman is responsible for carrying out visual waste inspections and for maintaining a written record of all loads. Only after visual inspection, can the waste be identified for disposal or recovery.

Within the Recycling Plant Building the waste is sorted according to its recycling potential and is either deemed suitable for further onward recycling/recovery or compacted within one of the ejector trailers onsite and transported off-site for final disposal (non-recoverable waste) to an authorised landfill. The categories of waste deemed suitable for segregation and recycling is dependent on available markets for such materials. Materials commonly accepted for recycling Steel/Iron, Cardboard/ Newsprint, Timber, Construction & Demolition (suitable for backfill material), Plastic and Glass. Household mixed recyclables are collected and accepted at the facility, where the waste is forwarded off-site for further recovery. All waste deemed unsuitable for recycling/recovery is loaded into and compacted within ejector trailers on-site. All compacted wastes are covered and subsequently transported for authorised disposal. All waste being transported from the facility is weighed and recorded at the weighbridge. An individual weigh docket is printed for each waste load.

2.0 WASTE MANAGEMENT RECORD

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

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

These waste classifications, subsequent to inspection, can be further categorised as been either suitable for recycling/recovery offsite or disposed to off-site authorised disposal facilities. Hazardous waste is not accepted at the AES Rosslare Waste Transfer Station. 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 or not acceptable 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 at the facility are restricted to those outlined in *Part 1 - Activities Licensed* of *the Waste Licence.*

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

Class 11. *Blending or mixture prior to submission to 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 a 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 composting and other biological processes). (P)*

Class 3 *Recycling or reclamation of metals and metal compounds:*

Class 4 *Recycling or reclamation of other inorganic materials:*

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

In accordance with Condition 11.9 of the Waste Licence, details of all wastes arriving at and departing from the facility are recorded. The details, which are maintained in a full record on site, include:

- The tonnages and EWC code for the waste materials imported and/or sent off-site for disposal / recovery.
- The names of the agent and carrier of the waste and their waste collection permit details, if required (to include issuing authority and vehicle registration number).
- Details of the ultimate disposal/recovery destination facility for the waste and its appropriateness to accept the consigned waste stream, to include its permit/licence details and issuing authority, if required.
- Written confirmation of the acceptance and disposal/recovery of any hazardous waste consignments sent off-site.
- Details of all wastes consigned abroad for recovery and classified as "Green" in accordance with the EU Transfrontier Shipment of Waste Regulations (Council Regulation EEC No. 259/1993, as amended). The rationale for the classification must form part of the record.
- Details of any rejected consignments.
- Details of any approved waste mixing.
- The results of any waste analyses required under Schedule C: Control and Monitoring of this licence.
- The tonnages and EWC Code for the waste materials recovered/disposed on-site.

In accordance to requirements of the Waste Licence, W0229-01, a summary of the waste recovered /disposed at the facility over the period from 1st January 2010 to 31st December 2010 is presented in Table 2.1 & 2.2 overleaf.

Table 2.1: Incoming Waste to AES Rosslare Waste Transfer Station 2010	
EWC Code	**Incoming Waste (Tonnes)**
15 01 01 BC – Baled Cardboard	144.67
15 01 01 C – Cardboard	1,641.69
15 01 01 MX – Mixed Paper & Cardboard Packaging	4,502.24
15 01 02 PL – Plastic	128.3
15 01 04 – Metallic Packaging	0.94
15 01 05 – Composite Packaging	0.51
15 01 06 – Mixed Packaging	5.38
15 01 07 – Glass Packaging	90.94
17 01 02 – C&D	714.59
17 01 07 – C&D	15.89
17 02 01 – Wood	253.66
17 04 07 – Mixed metals	55.33
17 09 04 – C&D	742.02
20 01 01 – Paper & cardboard	103.8
20 01 08 – Kitchen & Canteen Waste	23.5
20 01 11 - Textiles	28.82
20 03 01 – Municipal Waste	11,720.59
20 03 01 K – Kerbside Recyclables	2,113.07
20 03 07 – Bulky Waste	362.33
Total Incoming Waste	**22,648.27**

Table 2.2: Quantities of Waste Recovered / Disposed at Facility during 2010				
EWC Code	**Outgoing Waste (Tonnes)**	**Waste Recovery / Disposal Destination Name**	**Waste Recovery / Disposal Destination Address**	**Licence / Permit No.**
15 01 01 BC – Baled Cardboard	1309.6	(MLM) ACN Europe (UK)	Adamson House, Towers Business Park, Wilmslow Road, Didsbury, Manchester M20 2YY	
15 01 01 BC – Baled Cardboard	90.2	Irish Packaging Recycling	Ballymount Road, Walkinstown, Dublin 12	WPR 021/02
15 01 01 MX - Mixed Paper & Cardboard Packaging	1512.92	Dungarvan MRF	Shandon, Dungarvan, Co. Waterford	W0189-01
15 01 01 MX – Mixed Paper & Cardboard Packaging	1586.00	AES Tullamore	Cappincur Industrial Estate, Daingean Road, Tullamore, Co. Offaly	W0104-02
15 01 02 - Plastic	201.84	Asia Global Trade	7 Westbourne Gardens, London, United Kingdom Zip: W2 5NR	
15 01 02 - Plastic	95.06	Leinster Environmental	Clermont Business Park, Haggardstown, Dundalk, Co. Louth	WP 2008/06
15 01 07 - Glass Packaging	87.89	Urban & Rural Recycling	Creeg, Ballycogley, Co. Wexford.	WP/06/36(A)
17 01 02 – C&D	794.52	Drehid Waste Management Facility	Killinagh Upper, Carbury, Co. Kildare	W0201-03
17 01 02 – C&D	390.22	Goff Developments	Ballyfinogue, Great Drinagh, Co Wexford	WP-08-02
17 02 01 – Wood	13.42	AES Portlaoise	Kyletalesha, Portlaoise, Co. Laois	W0194-02
17 02 01 – Wood	341.92	Murray Waste Recycling Ltd	Coolatore, Ferns, Enniscorthy, Co Wexford	WP-108-23
17 02 01 – Wood	133.53	Shredwood Ltd.	Derryhogan, Littleton, Co. Tipperary.	WP/TN/101.
17 04 07 - Mixed Metals	26.3	Multimetals Recycling Ltd	Bollarney, The Murrough, Wicklow, Co. Wicklow	
17 04 07 - Mixed Metals	157.16	MSM Recycling	Mountmellick, Co Laois	
19 12 12 – Other Wastes	8864.9	Drehid Waste Management Facility	Killinagh Upper, Carbury, Co. Kildare	W0201-03
19 12 12 – Other Wastes	776.08	Ballynagran Residual Landfill	Ballynagran, Coolbeg and Kilcandra, County Wicklow	W0165-02
20 03 01 C – Municipal Waste	1592.47	Ballynagran Residual Landfill	Ballynagran, Coolbeg and Kilcandra, County Wicklow	W0165-02
20 03 01 C – Municipal Waste	41.82	Holmestown Waste Management Facility	Barntown, Co. Wexford, Wexford.	W0191-02
20 03 07 – Bulky Waste	363.46	Greenstar Ltd Bray	La Vallee House, Fassaroe, Bray, Co. Wicklow, Wicklow.	W0053-03
20 03 01 K – Kerbside Recyclables	1583.22	South Eastern Region MRF	Shandon, Dungarvan, Co. Waterford	W0189-01
20 03 01 K – Kerbside Recyclables	1586.00	AES Tullamore	Cappincur Industrial Estate, Daingean Road, Tullamore, Co. Offaly	W0104-02
Total Waste	**21,548.53 Tonnes**			

3.0 EMISSIONS FROM THE FACILITY

During the reporting period wastewater collected from site from bunds, interceptors, silt traps, bin/vehicle washing sump, weighbridge sump and underground storage tank are as follows:

- 9th September 2010: 10,600 Litres (Enva)
- 15th June 2010: 7,800kg (M & T Plant Hire)
- 21st October 2010: 14,000kg (M & T Plant Hire).

An estimate of storm water emissions from the facility can not be determined as flow is not monitored. Weekly chemical analysis of storm water samples is undertaken.

Surface water, dust and noise monitoring results are discussed in Section 6 of this report.

4.0 RESOURCE AND ENERGY CONSUMPTION

4.1 Resource Consumption Summary

Some resources consumed at AES Rosslare Waste Transfer Station are recorded. During the reporting period water usage on-site is not metered and has not been recorded, therefore, calculation of water usage is not possible at present.

Road Diesel Consumption was 241,000 Litres.

The total electrical consumption at the site was 88,100 kWh during the reporting period. During the same period wastewater produced at the facility (collected from site from bunds, interceptors, silt traps, bin/vehicle washing sump, weighbridge sump and underground storage tank) was recorded as 10,600 litres (Enva) and 21,800 kg (M & T Plant Hire).

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 in 2008. In 2010, the findings of the report were implemented, where feasible. Please refer to the Progress against Targets for 2010 in Table 5.1 for more details.

4.3 Water Consumption

The volume of wastewater produced at the facility and transported off-site is presented above in Section 4.1.

Please refer to Progress against Targets for 2010 (Table 5.1) for developments in minimising water demand and the volume of trade effluent discharge, in compliance with Condition 7.3, which include investigating the feasibility of the collection and re-use of rainwater for vehicle washing. At present, timelines have been pushed out as there are Health & Safety concerns and may not be practical on-site - Please refer to Objective & Targets 2011 (Table 5.2)

4.4 Raw Materials Consumption & Waste Generation

Please refer to Progress against Targets for 2010 (Table 5.1) for the progress made towards minimising raw material consumption and waste generation in 2010. Progress made includes:

- Induct staff and contract cleaners on waste segregation and minimisation. Display signs on segregated bins (residual & recyclable) outlining waste to be deposited in each. Install battery binand ink/toner cartridge bins in main office and organise collection.

- Induct yard staff on waste segregation and minimisation. Display signs on segregated bins (residual & recyclable) outlining waste to be deposited in each.

Please refer to Objective & Targets 2011 (Table 5.2) for proposals being developed in 2011 to minimise raw material consumption and waste generation. Proposals include:

- Once organic waste collections commence, install organic waste bins in canteen and yard.
- Household Glass Bin being rolled out with Brown Bin in February 2011.
- Pay-by-Lift service being offered to Household customers to incentivise the use of the more cost effective recycling and brown bins.
- Clear Plastics will be separated from Coloured Plastics to increase quality of plastics for onward recycling.
- Investigate the feasibility of the usage of "Ad-Blue" in vehicles currently not utilising this additive. As the fleet is updated with newer vehicles, the use of "Ad-Blue" shall be rolled out to a greater number of vehicles.
- Maximise throughput of picking line to maximise the recovery of recyclables and to minimise disposal of waste.
- Increase Customer Awareness in relation to waste segregation.
- Roll-out of domestic and commercial brown bin on a phased basis.
- The quantity of BMW sent to Landfill will be calculated on a quarterly basis to ensure that Diversion Targets are met.
- Investigate the feasibility of the collection and re-use of rainwater for vehicle washing.

5.0 ENVIRONMENTAL OBJECTIVES & TARGETS

5.1 Progress against Targets for 2010

Details on progress made against the Targets for 2010 are presented in Table 5.1.

Table 5.1:Progress against Targets for 2010

Ref	Objective	Target	Status
1	Improved Waste Management	Office-Induct staff and contract cleaners on waste segregation and minimisation. Display signs on segregated bins (residual & recyclable) outlining waste to be deposited in each. Install battery bin and ink/toner cartridge bins in main office and organise collection.	Completed – March 2010.
		Site-Induct yard staff on waste segregation and minimisation. Display signs on segregated bins (residual & recyclable) outlining waste to be deposited in each.	Completed – March 2010.
		Once organic waste collections commence, install organic waste bins in canteen and yard.	On-going. Household Brown Bin Collections commencing in Feb 2011.
2	Review Energy Efficiency Audit Report	Implement findings, where feasible.	Completed – June 2010.
3	Increase usage of "Ad-blue" in Fleet Vehicles to reduce emissions	Investigate the feasibility of the usage of "Ad-Blue" in vehicles currently not utilising this additive. As the fleet is updated with newer vehicles, the use of "Ad-Blue" shall be rolled out to a greater number of vehicles.	On-going.
4	Maximise recovery of recyclables	Maximise throughput of picking line to maximise the recovery of recyclables and to minimise disposal of waste.	On-going. Level of recovery has increased.
		Increase Customer Awareness in relation to waste segregation.	On-going. Level of recycling by customers has increased. Household Glass Bin being rolled out in Feb 2011.
5	Diversion of biodegradable waste from landfill	Roll-out of domestic and commercial brown bin on a phased basis.	Commercial Brown Bins rolled out in July 10. Household Brown Bin Collections commencing in Feb 2011.
6	Environmental Monitoring	As per Waste Licence: Should any limits be exceeded, corrective actions to be implemented.	On-going.
7	Installation of up-graded Dust Suppression System	Install upgraded Dust Suppression System within Waste Transfer Building.	On-going. Meeting requested with the EPA to discuss Negative Air System before any decision made because of overlap with odour suppression.

Table 5.1 continued: Progress against Targets for 2010			
Ref	**Objective**	**Target**	**Status**
8	Investigate options for the reduction and/or re-use of water on-site	Investigate the feasibility of the collection and re-use of rainwater for vehicle washing.	On-going. Timelines have been pushed out as there are Health & Safety concerns and may not be practical on-site. Quotes will be obtained.
9	Efficiency of Fuel Consumption	Streamline Routes. Computer programme being acquired for AES Group to manage collection route to ensure maximum efficiency of labour and raw materials.	Trials were carried out in 2010 and streamlining has now commenced.
10	Upkeep of Environmental Management System	Accreditation of EMS to ISO 14001.	Certification received on 01/02/2010.
		Monthly EMS Meetings.	On-going.
		Ongoing review of procedures, objectives & targets, and aspects register.	On-going.
11	Environmental Training & Awareness	As per training matrix and schedule.	Completed.

5.2 Schedule of Objectives and Targets for 2011

The proposed schedule of Objectives and Targets for 2011 is presented in Table 5.2

Table 5.2: Proposed Schedule of Objectives and Targets for 2011

Ref	Objective	Target	Timescale	Response	Status
1	Improved Waste Management	Install organic waste bins in canteen and yard.	Feb-11	EoN/JC	Ongoing. Household Brown Bin Collections commencing in Feb 11 so Brown Bins will be rolled out on-site in line with this.
2	Maximise Recovery of Recyclables	Household Glass Bin being rolled out with Brown Bin in February 2011.	Feb-11	EoN	Ongoing.
		Pay-by-Lift service being offered to Household customers to incentivise the use of the more cost effective recycling and brown bins.	Dec-11	EoN	Ongoing.
		Clear Plastics will be separated from Coloured Plastics to increase quality of plastics for onward recycling.	Dec-11	EoN	Ongoing.
3	Diversion of biodegradable waste from landfill	Household Brown Bin being rolled out in February 2011.	Feb-11	EoN	Ongoing
		The quantity of BMW sent to Landfill will be calculated on a quarterly basis to ensure that Diversion Targets are met.	Dec-11	EoN	Ongoing
4	Environmental Monitoring	As per Waste Licence: Should any limits be exceeded, corrective actions to be implemented.	Dec-11	EoN/JC/ LC	Ongoing
5	Investigate options for the reduction and/or re-use of water on-site	Investigate the feasibility of the collection and re-use of rainwater for vehicle washing.	Mar-11	EoN	Preliminary investigations have been made. There are Health & Safety concerns and it may not be practical on-site. Quotes will be obtained and final decisions made.
6	Efficiency of Fuel Consumption	Streamline Routes. Computer programme was acquired for AES Group to manage collection route to ensure maximum efficiency of labour and raw materials	Dec-11	Logistics Manager	Trials were carried out in 2010. Streamlining has commenced and will be reviewed continuously.
7	Upkeep of Environmental Management System	Ongoing review of procedures, objectives & targets, records, training and aspects register.	Dec-11	Enviro Team	Ongoing
8	Vehicle Maintenance Programme to be reviewed	Vehicle Maintenance Contractor to be hired for AES Group to provide a more reliable and traceable service	Jun-11	Group	Ongoing

6.0 SUMMARY OF ENVIRONMENTAL MONITORING

Environmental monitoring at the facility is carried out in accordance with Condition 6 and Schedule C of the Waste Licence for the facility. The following sections 6.1 to 6.3 present the results of monitoring for the year 2010.

The environmental media monitored and the frequencies of monitoring at the facility are as follows:

1. Noise	Annually
2. Dust Deposition	Three times per annum
3. Storm Water Emissions	Weekly & Quarterly

Section 6.0 presents a summary of the Environmental Management Programme for the facility.

6.1 Noise Monitoring Report Summary

In compliance with the requirements of the Waste Licence, W0229-01, annual noise monitoring at the AES Rosslare Waste Transfer Station was undertaken. Monitoring was carried out on the 17th May 2010 (Report Number – ECS3625 – Noise).

LA_{eq}, LA_{10} LA_{90} values and 1/3 Octave band analyses was determined at five site boundary locations (N1 – N5) and at two noise sensitive locations (N6 and N7). The noise monitoring locations are presented in Table. 6.1 and the locations are indentified in Appendix 1.

Table 6.1: Noise Monitoring Locations

Map Reference No.	Location Type	Geographical location from the site centre
N1	Boundary	South Western corner beside the main office
N2	Boundary	North Western corner
N3	Boundary	North Eastern corner
N4	Boundary	South Eastern corner behind the main office
N5	Boundary	Outside the recycling shed
N6	Noise sensitive	Across from entrance to Kilrane Business Park
N7	Noise sensitive	On the road opposite the main office

The full set of results are presented in Table 6.2.

The daytime LA_{eq} recorded at the five boundary locations ranged from 51 dB(A) at N2 to 74 dB(A) at N5. At the noise sensitive locations the noise levels (L_{eq}) ranged from 62 dB(A) at N7 to 65 dB(A) at N6.

Table 6.2: Noise Monitoring Results						
Map Reference No.	**Measurement Period (mins)**	**Time**	**L_{eq} dB(A)**	**L_{10} dB(A)**	**L_{90} dB(A)**	**L_{AFMax} dB(A)**
N1	30	11:20	**57**	58	49	78
N2	30	12:07	51	52	41	74
N3	30	12:37	52	55	41	74
N4	30	13:13	52	55	34	70
N5	30	15:02	**74**	75	55	100
N6	30	13:49	**65**	63	44	92
N7	30	14.28	**62**	61	38	84

The noise levels, LA_{eq} recorded at the boundary locations N2, N3 and N4 were below the noise limit of 55 dB(A).

Elevated noise levels were noted at two of the boundary locations (N1 and N5) during the monitoring period. The main source of noise at the N1 location was trucks driving past the meter that contributed to the LAF_{max} value of 78 dB(A). General operations on site were quite with the odd truck passing in and out of the facility. N5 represents the highest L_{eq} level recorded at the boundary locations with a L_{eq} of 74 dB(A). Onsite observations indicate that the main source of noise audible at this location was machinery entering and exiting the recycling shed. The other source of noise was the loading and offloading of skips by trucks operating beside the noise meter, which would have increased the average noise level and contributed to a high LAF_{max} of 100 dB(A). Other noise sources from the AES facility included intermittent beeping from a reversing truck and some faint noise from machinery operating in the recycling shed.

Tonal noise was detected at two of the boundary locations: N3 at 100 Hertz and N5 at 63 hertz and 1,250 Hertz.

The noise levels (L_{eq}(A)) recorded at the noise sensitive locations N6 and N7 were 65 dB(A) and 62 dB(A), respectively, above the limit set out in the Waste License of 55 dB(A). Onsite observations indicate that the main source of noise audible at N6 was the intermittent beeping of reversing trucks in the AES facility. Other sources of noise were banging noises from neighbouring facilities and cars passing on the road where the meter was located. These sources resulted in a high LAF_{max} of 92 dB(A). The main source of noise at the N7 location was cars driving past the meter which contributed to the high LAF_{max} of 84 dB(A). Onsite noise sources from the AES facility include banging noises coming from the recycling shed.

While tonal noise was not detected at N6, it was detected at N7 at 63 Hertz.

6.2 Ambient Monitoring Summary

In compliance with the requirements of the Waste Licence, W0229-01, dust monitoring at the AES Rosslare Waste Transfer Station was undertaken. Monitoring was carried out three times during the reporting period.

There are four dust monitoring locations on site, detailed in Table 6.3 and indentified in Appendix 1.

The Waste Licence limit for dust deposition is given as 350mg/m2/day as per Schedule B.5.

Table 6.3: Dust Monitoring Locations

Monitoring Location	Description
A2-1	South Western corner beside Reception
A2-2	Middle of site beside power washer
A2-3	North western corner of facility
A2-4	North eastern corner of the facility

Four Bergerhoff dust gauges were continuously exposed for a 32 day period between the 21st January – 22nd February (Round 1), for 31 days from 17th May – 17th June March (Round 2), and finally for 32 days from 15th July – 16th August (Round 3). The results for monitoring are presented in Table 6.4.

Table 6.4: Dust Monitoring Results (mg/m^2/day)

Monitoring Location	*Dust Deposition Limit*	Deposition Rate (Round 1) (Report ECS3532)	Deposition Rate (Round 2) (Report ECS3625)	Deposition Rate (Round 3) (Report ECS3675)
A2-1	*350*	95	**616**	**721**
A2-2	*350*	53	117	129
A2-3	*350*	<15	Note 1	65
A2-4	*350*	21	Note 2	285

Note 1: Dust gauge fell from its location during this monitoring period.

Note 2: Dust gauge contained foreign object and a foul odour was present on collection of the dust gauge. Therefore, the dust gauge has to be discarded at end of monitoring period.

The results were elevated above the EPA limit of 350 mg/m^2/day at A2-1 during the second and third rounds of monitoring. All the other results are under the licence limit.

A2-1 is located at the South West corner of the facility, beside Reception and beside the main access road to neighbouring industrial facilities. Traffic on this access road would have contributed to high dust levels. On-site sources of dust may have originated from the loading bay located 10m away from the dust monitoring location during the second and third monitoring periods.

The dust gauge at the monitoring location A2-3 fell from its location during the second monitoring period, and therefore, no result was available. With regard the dust gauge installed at location A2-4, a foreign object and a very foul odour was present in the dust gauge on the day of collection, and as a result the dust gauge had to be discarded.

6.3 Surface Water Monitoring Report Summary

In accordance with Waste Licence, W0229-01 Schedule C.2.3, AES Rosslare is required to carry out a Daily Visual Inspection, weekly sampling of pH, Conductivity and Suspended Solids and quarterly sampling of COD, Ammonia and Mineral Oils from the surface water in the immediate environs of its Waste Transfer Facility.

Surface water monitoring locations are presented in Table 6.5 and the monitoring locations are indentified in Appendix 1.

Table 6.5: Surface Water Monitoring Locations

Monitoring Location	Description
SW-1	Located upstream of the AES facility
SW-2	North eastern corner of AES facility
SW-3	Located 10m immediately downstream of SW-2

The monthly average results of the weekly surface water monitoring are presented in Table 6.6. Emission limits for surface waters are not specified in the Waste Licence.

Quarterly Monitoring occurred on the 21st January, 17th May, 15th July and finally on the 4th October 2010. The results of Quarterly surface water monitoring are presented in Table 6.7. Emission limits for surface waters are not specified in the Waste Licence.

Table 6.6: Average Monthly Surface Water Results												
Parameter	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**October**	**November**	**December**
	SW-1	**SW-1**	**SW-1**	**SW-1**	**SW-1**	**SW-1**	**SW-1**	**SW-1**	**SW-1**	**SW-1**	**SW-1**	**SW-1**
pH (pH units)	7.4	7.6	7.7	7.5	7.8	7.6	7.6	7.7	7.6	7.7	7.5	7.6
Conductivity (µS/cm)	755	773	743	709	792	768	722	841	762	774	686	806
Suspended solids (mg/l)	12	23	9	3	2	13	7	24	7	10	17	10
	SW-2	**SW-2**	**SW-2**	**SW-2**	**SW-2**	**SW-2**	**SW-2**	**SW-2**	**SW-2**	**SW-2**	**SW-2**	**SW-2**
pH (pH units)	7.4	7.6	7.7	7.5	7.8	7.6	7.6	7.7	7.6	7.7	7.5	7.6
Conductivity (µS/cm)	754	774	754	708	785	759	726	836	766	763	693	810
Suspended solids (mg/l)	16	63	8	3	7	33	8	18	13	13	15	8
	SW-3	**SW-3**	**SW-3**	**SW-3**	**SW-3**	**SW-3**	**SW-3**	**SW-3**	**SW-3**	**SW-3**	**SW-3**	**SW-3**
pH (pH units)	7.5	7.6	7.7	7.5	7.8	7.6	7.6	7.7	7.6	7.7	7.5	7.6
Conductivity (µS/cm)	752	777	750	712	783	757	716	842	758	807	620	806
Suspended solids (mg/l)	13	33	12	5	20	19	9	13	9	8	16	7

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Table 6.7: Quarterly Surface Water Results				
Parameter	**Quarter 1 (Report ECS3532)**	**Quarter 2 (Report ECS3625)**	**Quarter 3 (Report ECS3675)**	**Quarter 4 (Report ECS3744)**
	SW-1	**SW-1**	**SW-1**	**SW-1**
On-Site Visual Inspection	Clear colour, Some SS, No oily surface	Clear colour, Few SS, High vegetation No oily surface	Very pale yellow colour, Few SS, Lots of vegetation, Slight oily surface	Clear in colour, Very few SS, High vegetation, Slight oily surface,
Odour	No Odour	No Odour	No Odour	No Odour
COD (mg/l)	25	11	15	15
Mineral Oils (µg/l)	<10	<10	<10	<10
Ammonia (mg/l as N)	0.11	0.03	0.02	0.05
	SW-2	**SW-2**	**SW-2**	**SW-2**
On-Site Visual Inspection	Pale yellow colour, High S.S, Very Oily Surface	Pale yellow colour, Some S.S, Oily Surface Very low flow	Very pale yellow colour, Few S.S, nearby green algae, Large oily surface	Clear in colour, Very few S.S, Oily/shiny surface
Odour	Oily Odour	Slight Oily Odour	Slight Oily Odour	No Odour
COD (mg/l)	40	126	18	10
Mineral Oils (µg/l)	363	<10	<10	<10
Ammonia (mg/l as N)	0.24	0.06	0.06	0.09
	SW-3	**SW-3**	**SW-3**	**SW-3**
On-Site Visual Inspection	Clear colour, Some S.S due to vegetation, Slight oily surface	Very pale yellow colour, Few S.S, Oily/shiny surface	Very pale yellow colour, Few S.S, Lots of vegetation, Slight oily/shiny surface	Clear in colour, High S.S, High solid content on the water surface.
Odour	Slight oily Odour	Oily Odour	Strong Oily Odour	Slight Oily Odour
COD (mg/l)	15	20	66	17
Mineral Oils (µg/l)	<10	810	<10	<10
Ammonia (mg/l as N)	0.11	0.04	0.37	0.04

The results of the analysis of the grab sample of surface waters obtained from the Advanced Environmental Solutions Ltd. on a quarterly basis are presented in Table 6.7.

The ammonia results fluctuated slightly throughout the year ranging from 0.02 mg/l at SW-1 (Quarter 3) to 0.37 mg/l at SW-3 (Quarter 3). Mineral Oils were detected twice throughout the year, at a concentration of 363 µg/l at SW-2 (Quarter 1) and 810 µg/l at SW-3 (Quarter 2). The remainder of the sampling locations remained below the laboratory limit of detection (<10 µg/l) throughout 2010. The COD results detected at the three monitoring locations fluctuated throughout the year. The concentration of COD ranged from 11 mg/l to 25 mg/l at SW-1, from 10 mg/l to 126 mg/l at SW-2 and from 15 mg/l to 66mg/l at SW-3. Finally, COD levels were detected at low concentrations at Quarter 4 2010.

6.4 Tank and Pipeline Testing & Inspection Reports

In accordance with the requirements of the company's Waste Licence (W0229-01) AES is required to conduct a bund integrity test, as stated under Condition 6.9.

Condition 6.9 of the Waste Licence states:

"The integrity and water tightness of all underground pipes, tanks, bunding structures and containers and their resistance to penetration by water or other materials carried or stored therein shall be tested and demonstrated by the licensee within six months of the date of grant of this licence. The testing shall be carried out by the licensee at least once every three years thereafter and reported to the Agency on each occasion. This testing shall be carried out in accordance with any guidance published by the Agency. A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee".

Tank and Pipeline Testing & Inspection Reports for the site are due in 2011.

6.5 Environmental Management Programme

The Environmental Management Program (EMP) form part of the Objectives and Targets for the facility, presented in Table 5.1 & 5.2. Amoung the measures outlined in the Tables, it is proposed for the coming year:

- Undertake an ongoing review of procedures, objectives & targets, and aspects register.
- To hold Monthly EMS Meetings.
- Investigate the feasibility of the collection and re-use of rainwater for vehicle washing.
- To undertake an internal waste awareness campaign.
- Increase Customer Awareness in relation to waste segregation.

7.0 SITE DEVELOPMENT/INFRASTRUCTURAL WORKS

7.1 Current Infrastructure in Place

The facility is currently licensed to accept a maximum of 23,000 tonnes of waste per annum (5,400 tonnes of Household waste, 8,600 tonnes of Commercial waste, 4,000 tonnes of Non hazardous Construction and Demolition (C&D) waste and 5,000 tonnes of Non-hazardous Industrial waste). The current operating Capacity is 440 tonnes per week.

Summary details on Duty & Standby Capacity are presented in Table 7.1.

Table 7.1: Summary List of Plant and Machinery
List of all Machinery and Equipment
Trommel
Pickling line
Baler
Track Machine (360)
Loading Shovel
2 forklifts (1 equipment with grab, 1 for moving)

Most waste arriving on-site is already source segregated. Should the trommel break down, waste is sorted manually with track machine and by general operatives. Should the track machine or loading shovel break down, a replacement would be hired in.

The network of sites owned by AES and their proximity is a beneficial factor considering standby. Should the baler be down for an extended period, recyclable would be sent to AES Tullamore unbaled and baled there. Should the trommel remain out of action for a few days, waste would be re-directed to AES Portlaoise for segregation.

7.2 Site Development Works during 2010

Site Development works proposed for 2010 are on-going as evident in Table 5.2: Proposed Schedule of Objectives and Targets for 2011.

7.3 Proposed Development Works for 2011

During 2010 it was anticipated that the site would install an upgraded Dust Suppression System within Waste Transfer Building. This is detailed in Table 5.1: Progress against Targets for 2010. A meeting was requested with the EPA to discuss a Negative Air System before any decision made because of the overlap with odour suppression. Further details are also provided in Table 5.2: Proposed schedule of Objectives and Targets for 2011.

8.0 INCIDENTS & COMPLAINTS

8.1 Complaints Summary

All environmental complaints are recorded at the facility. Eleven complaints were received by the site during the 2010 reporting period. Summary details are presented in Table 8.1.

Table 8.1: Summary of Complaints

Date	Complaint Summary Details	Action Summary Details
25/2/2010	Odour	Odour check undertaken and a slight odour observed. Treated with odour control
24/3/2010	Debris & Exceeding Speed Limit	Drivers informed that loads must be covered with nets and to stay within speed limit.
10/5/2010	Odour	Odour check undertaken, but no noticeable odours observed.
04/6/2010	Odour	Odour check undertaken and a slight odour observed. Treated with odour control
10/6/2010 14/6/2010	Odour	Odour check undertaken and a slight odour observed. Treated with odour control
14/6/2010	Odour & Litter	Odour check undertaken and a mild odour observed. Treated with odour control. Litter on road not from site.
15/6/2010 17/6/2010	Odour	Odour check undertaken and a mild odour observed. Treated with odour control
11/8/2010	Operating out of hours.	Complaint that waste was being accepted & dispatched from the facility outside the hours stated in the Waste Licencee.
11/8/2010	Odour	Odour check undertaken and some odour observed. Treated with odour control
17/8/2010	Odour	Odour check undertaken and some odour observed. Treated with odour control

8.2 Reported Incidents Summary

All environmental incidents are recorded at the facility. Four incidents were recorded by the site during the 2010 reporting period. Summary details are presented in Table 8.2.

Table 8.2: Summary of Incidents

Date	Incident Summary Details
July/August 2010	Elevated dust level above licence limit.
27/07/2010	Hydraulic oil leaked from truck due to worn threads causing hydraulic pump to blow apart.
13/08/2010	Bag of rubbish fell off the back of a skip wagon just before entering facility yard.
17/11/2010	Non-compliance issued as Negative Air System has not been installed.

8.3 Accident Prevention and Emergency Response

Condition 9.1 of the Waste Licence states:

"The licensee shall, within six months of date of grant of this licence, 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, within six months of date of grant of this licence, ensure that a documented Emergency Response Procedure is in place 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.doc

These documents are included in full in Appendix 2.

9.0 FACILITY MANAGEMENT

9.1 Report on Financial Provisions

In 2008, Goff Recycling Limited was acquired by AES (Ireland) Ltd. which is a wholly-owned subsidiary of Bord Na Móna plc. AES Rosslare t/a Goff Recycling Ltd has access to the reserves of its parent company.

The environmental liabilities (environmental damage and remedial actions) are those considered to be restricted to the confines of the facility, therefore, any costs incurred in addressing same will be limited to the removal and safe disposal of the waste remaining on-site following an emergency event (e.g. fire or spillage event) 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 onsite at any given time.

AES (Ireland) Ltd. and Bord na Móna have arranged insurance to cover the liability arising from damage to property and injury to parties as a result of sudden an unforeseen environmental impairment. AES (Ireland) Ltd 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.

9.2 Management & Staffing Structure

The management and staffing structure of the facility is described in Figure 9.1.

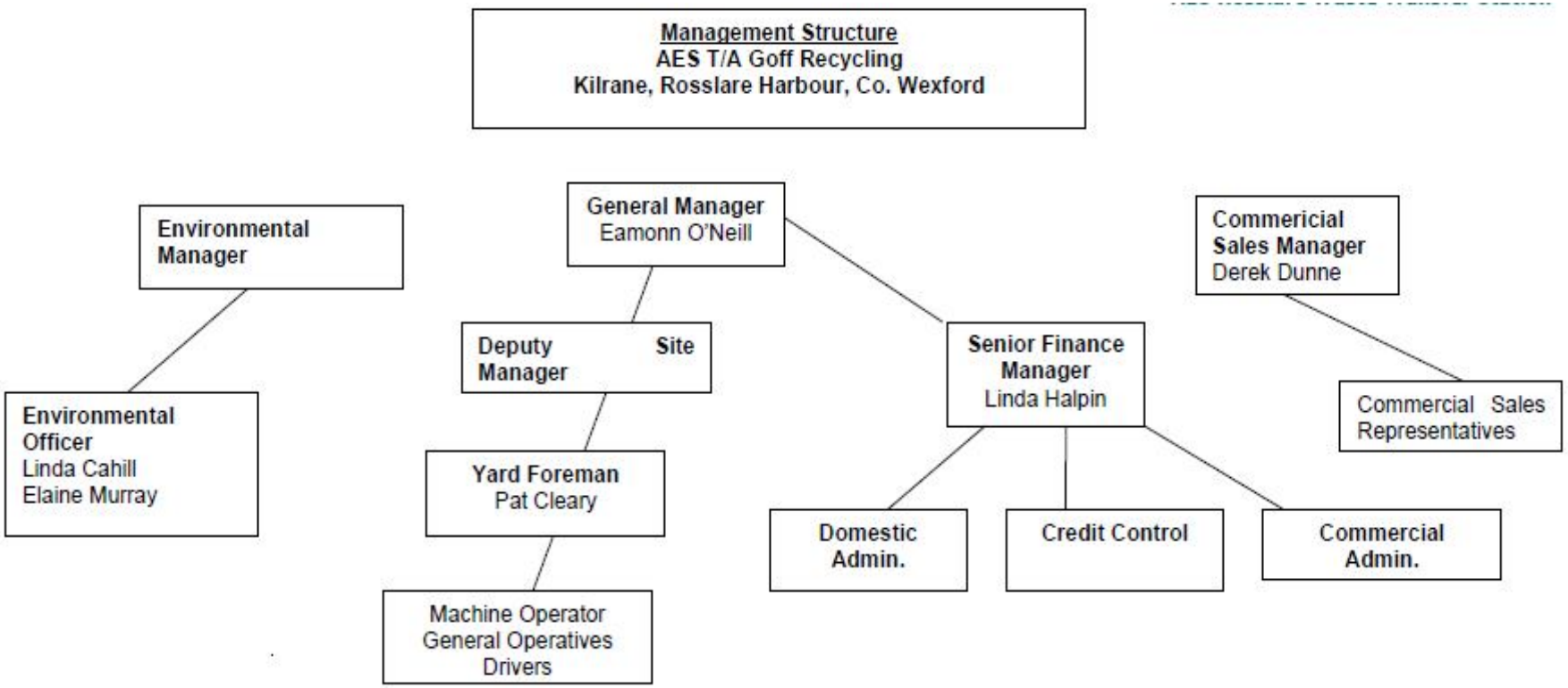


Figure 9.1: Management and Staffing Structure

9.3 New Procedures Developed During 2010

Environmental Management for AES Rosslare was revised during 2009 and was awarded 1SO14001 certification on the 26th of January 2010.

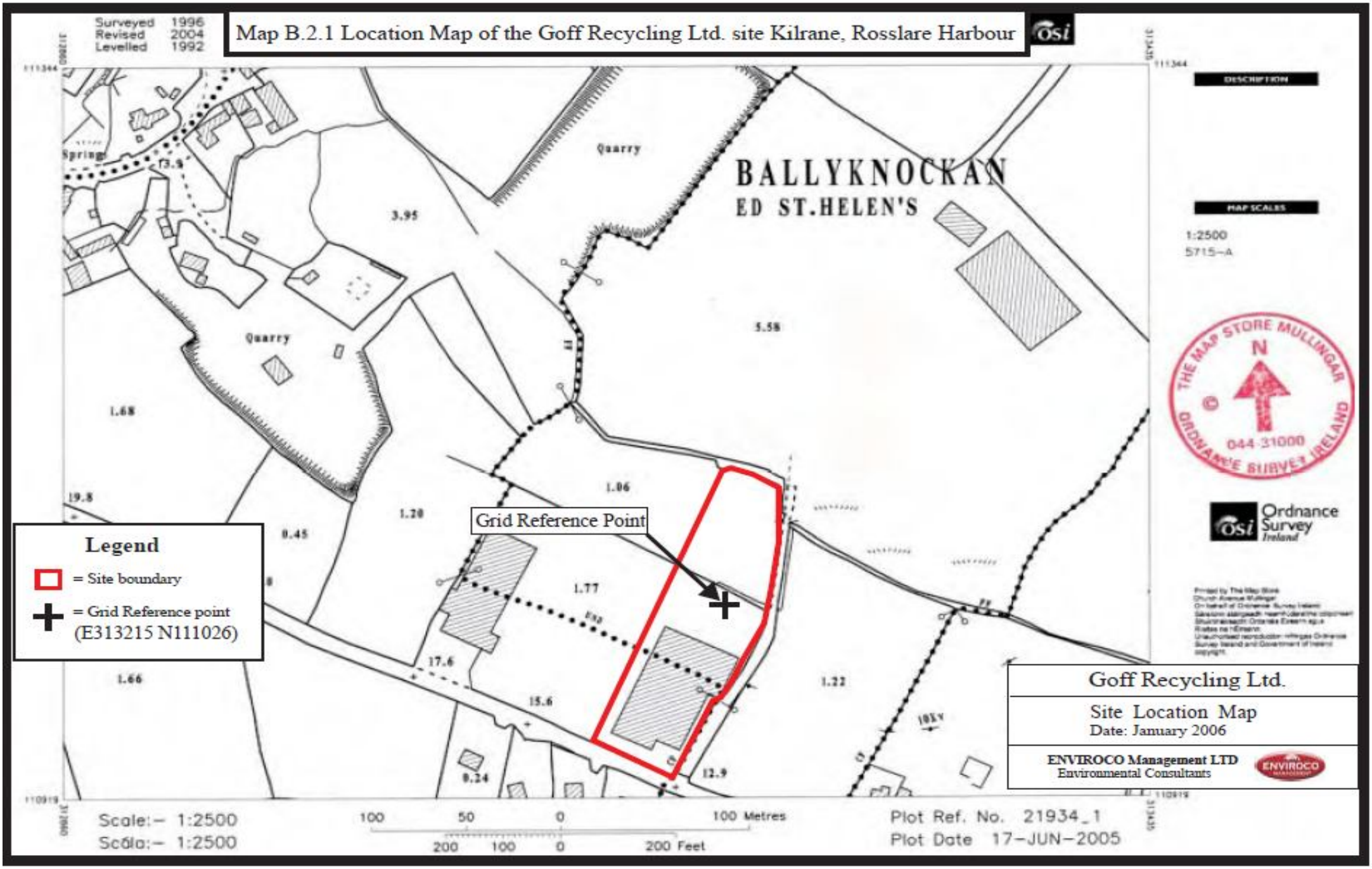
9.4 Review of Nuisance Controls

There were no nuisance/pest issues in during the 2010 reporting period and there are no proposed amendments to nuisance controls for 2011. AES Rosslare 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).

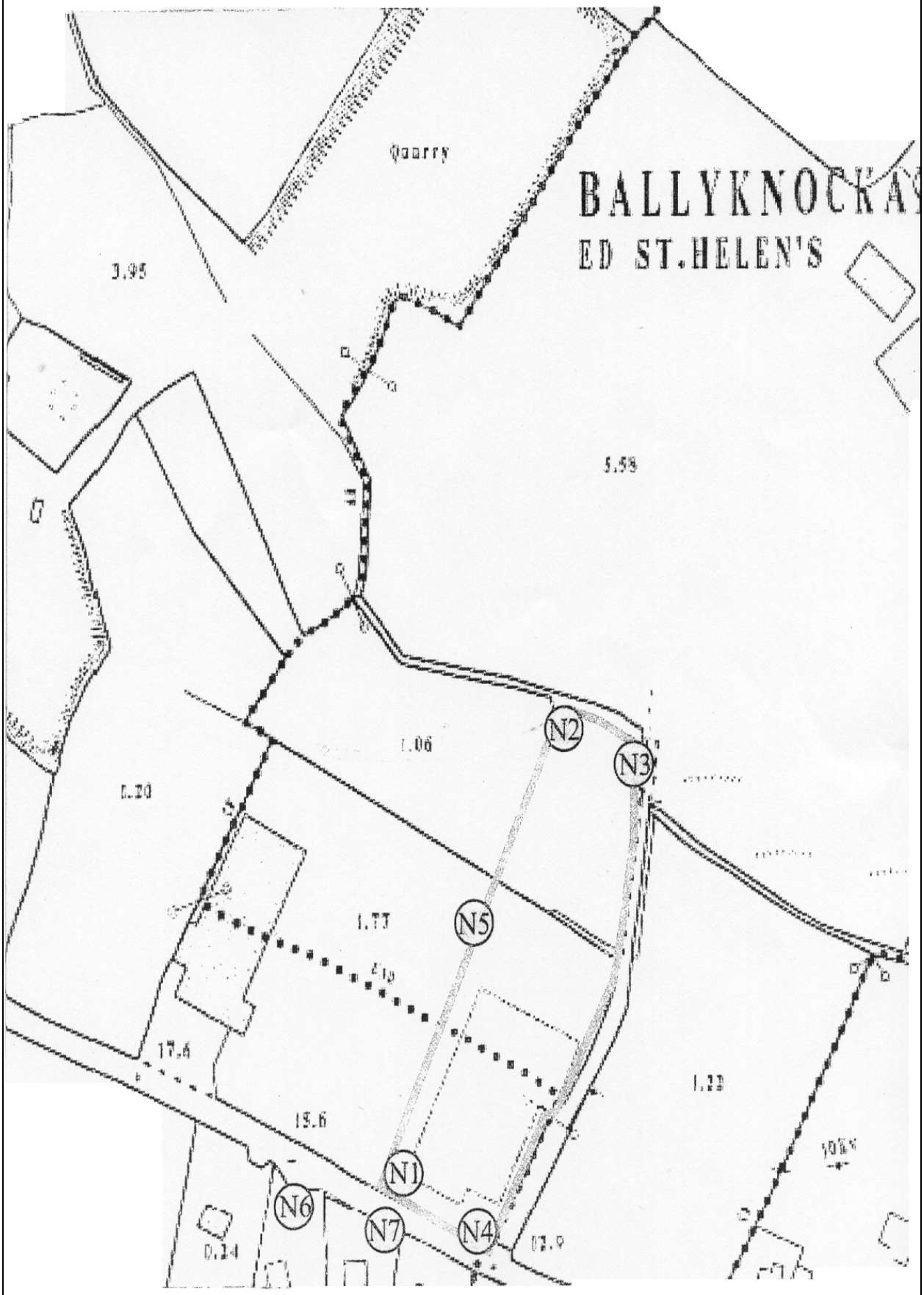
The full procedure is attached in Appendix 3.

APPENDIX 1

Drawings


Surveyed 1996
Revised 2004
Levelled 1992
Map B.2.1 Location Map of the Goff Recycling Ltd. site Kilrane, Rosslare Harbour
BALLYKNOCKAN
ED ST.HELEN'S
Quarry
Quarry
Spring
DESCRIPTION
MAP SCALES
1:2500
5715-A
THE MAP STORE MULLINGAR
044 31000
ORDNANCE SURVEY IRELAND
Ordnance Survey Ireland
Grid Reference Point
Legend
= Site boundary
= Grid Reference point
(E313215 N111026)
Goff Recycling Ltd.
Site Location Map
Date: January 2006
ENVIROCO Management LTD
Environmental Consultants
Scale:- 1:2500
Scála:- 1:2500
100 50 0 100 Metres
200 100 0 200 Feet
Plot Ref. No. 21934_1
Plot Date 17-JUN-2005

Noise Monitoring locations at the Goff Recycling Ltd. Rosslare Site

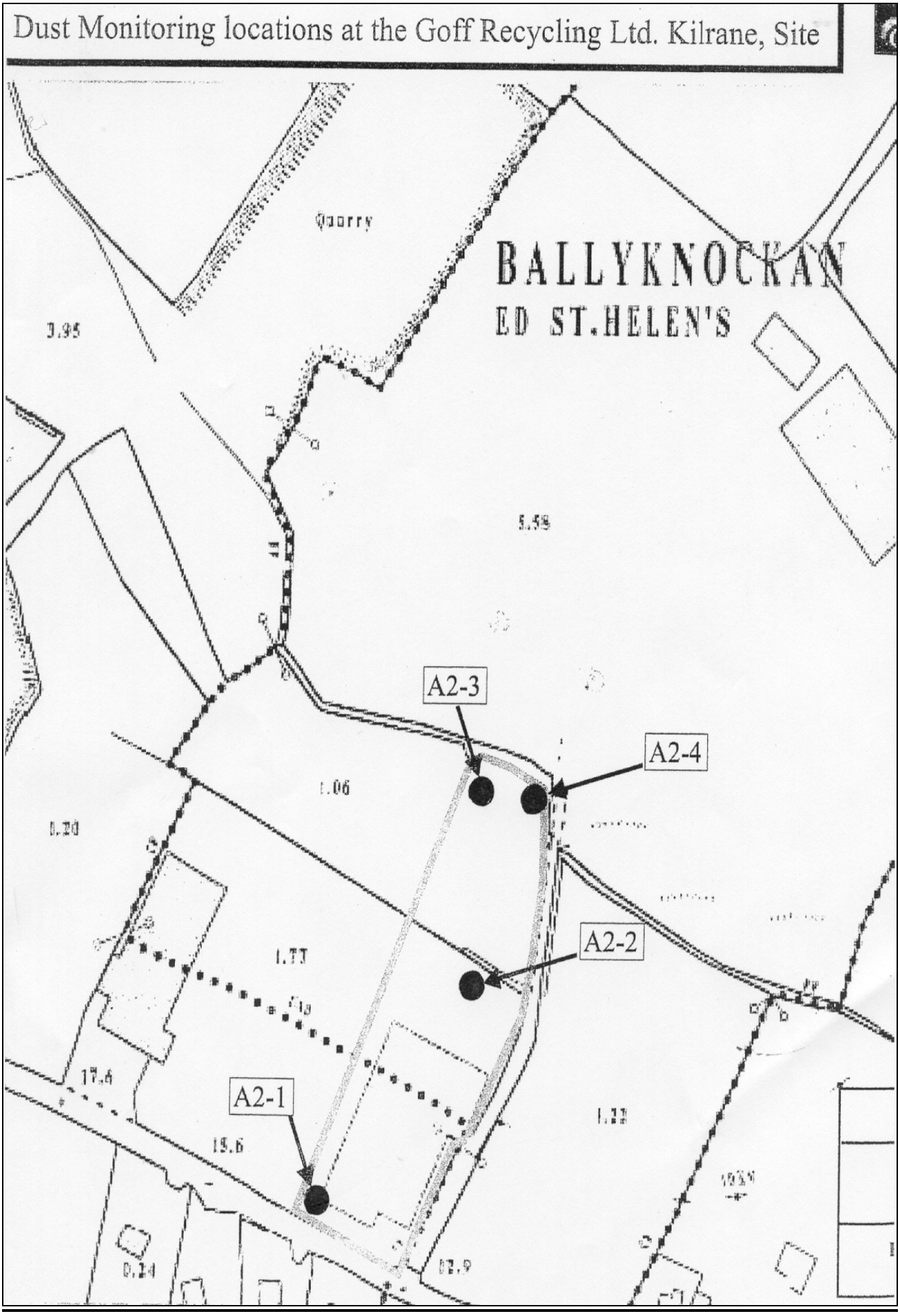


100 50 0 25 Metres

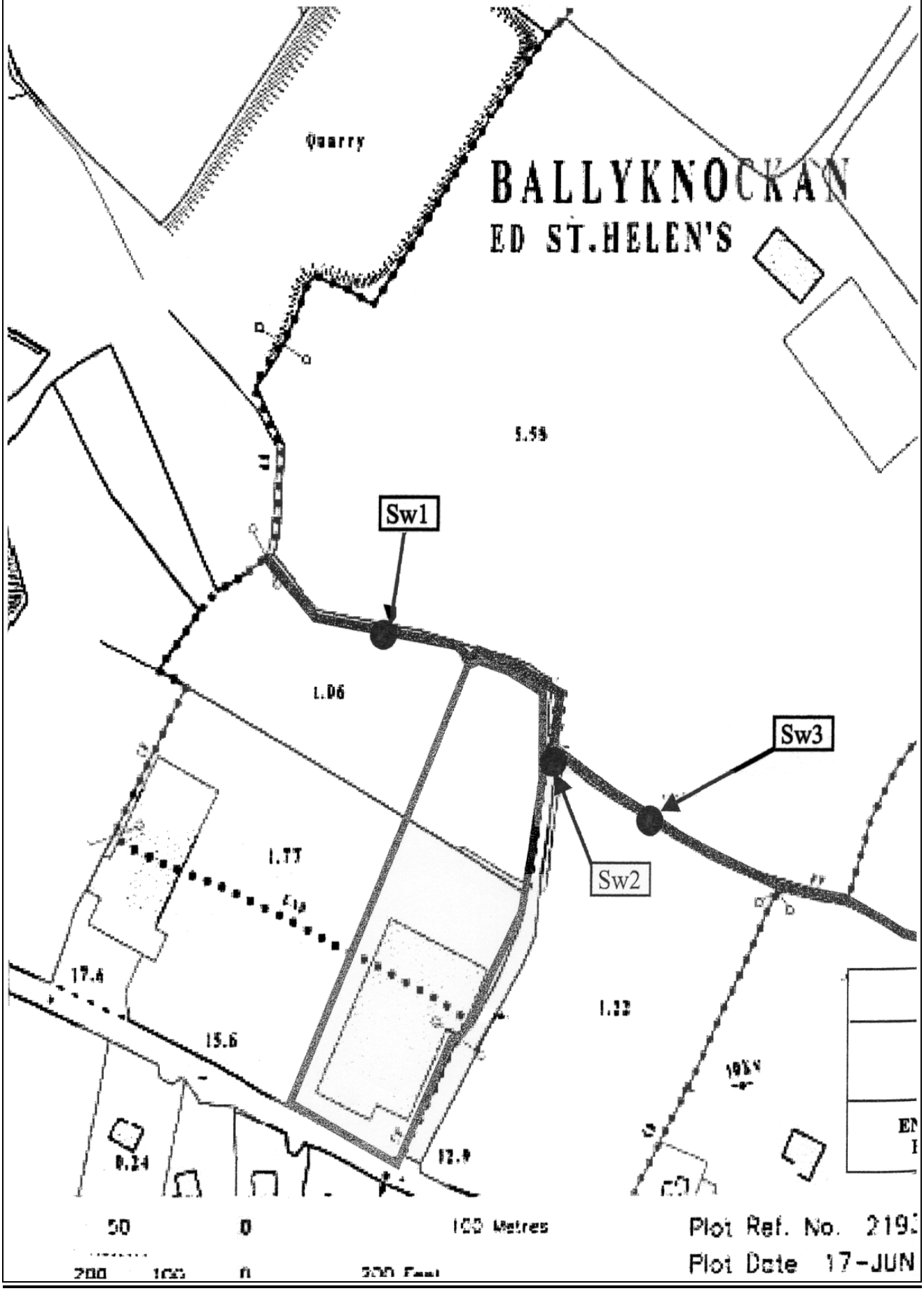
Plot Ref

Plot Date

Dust Monitoring locations at the Goff Recycling Ltd. Kilrane, Site



Water Monitoring locations at the Goff Recycling Ltd. Rosslare Site



APPENDIX 2

Accident Prevention & Emergency Response Procedure

Title General Emergency Preparedness & Response

Purpose: To identify the potential for, and to respond to, accidents and emergency situations, and to prevent and mitigate the environmental impacts that may be associated with them.

Scope: The Scope of this procedure is the application of the Environmental Emergency Plan

References:
EP 6.0 Environmental Incident Investigation and Reporting
EP 5.0 Emergency Preparedness and Response
EP 7.0 Non Conformance Procedure
EP 8.0 Corrective and Preventive Action Procedure
EPL 5.1 Emergency Contact List
Safety Statement
Material Safety Data Sheets

Incident Contact List:

Emergency Contact List for AES Rosslare t/a Goff Recycling			
Service / Agency	**Address**	**Telephone Numbers**	**Fax / e-mail**
EPA Headquarters	Johnstown Castle Estate Wexford	053 9160600 1890 335599	053 9160699 info@epa.ie
Wexford Co. Council	County Hall Spawell Road Wexford	053-9176500	053-9143406 postmaster@wexfordcoco.ie
Southern Regional Fisheries Board	Anglesea Street Clonmel, Co. Tipperary	052-80055	052-23971 enquiries@srfb.ie
Eastern Regional Fisheries Board	15a Main Street, Blackrock, Co. Dublin	01-2787022	01-2787025 info@erfb.ie

Title General Emergency Preparedness & Response

Procedure:

1. An Emergency Plan is prepared and maintained by AES Rosslare. This Plan details any emergency situation which could occur on site and the proposed response should this emergency occur. The Emergency Plan details procedures for the following occurrences:

Reference	Description
ERP 02	Spill Clean-up Procedure
ERP 03	Fire / Explosion Procedure
ERP 04	Malicious Damage Procedure
ERP 05	Unforeseen Emergencies

2. Should an emergency situation occur, the relevant response procedure documented within the Emergency Plan is implemented. Each procedure details the emergency situation, the proposed response should this emergency occur and the potential environmental impacts of this occurrence.

3. The Site Manager shall assume the role of Site Incident Controller, with responsibility for
   (i) assessing the scale of the incident
   (ii) informing emergency services
   (iii) directing rescue and fire-fighting operations.

   In the absence of the Site Manager, the Deputy Site Manager shall assume the role of Site Incident Controller.

4. Following an emergency, the Site Manager (or in his absence Deputy Site Manager) shall record the details of the incident. Environmental Incident Investigation Form EPF 6.1 or Environmental Incident Notification Form EPF 6.2 shall be completed as per Environmental Incident Investigation and Reporting Procedure (EMS Environmental Procedure EP 6.0). Following the environmental incident, appropriate procedures shall be implemented accordingly i.e. Environmental Non-Conformance Procedures EP 7.0, Environmental Incident/Release Investigation and Reporting Procedures EP 6.0 and Environmental Corrective and Preventative Action Procedure EP 8.0.

5. This procedure shall be reviewed by the Environmental Management team, annually or after the occurrence of an emergency situation. Additional procedures may be prepared as identified by environmental reviews/audits, environmental compliance monitoring reports, personnel during routine working hours or other communications which bring potential emergency situations to the attention of the Environmental Management Team.

6. The Site Manager shall notify the Environmental Protection Agency as soon as possible after the occurrence of an incident as per procedure EP 15.0 Reporting

7. In the case of any incident which relates to discharges to water, the Site Manager shall notify the Local Authorities and the Southern Regional Fisheries Board as soon as practicable after the incident

8. On a weekly basis all emergency response equipment shall be checked to ensure it is provided in agreed quantities and in suitable working order.

9. In the case that an emergency situation arises outside the hours of operation, the contact details for the designated person on call are displayed on the Facility Notice Board at the entrance to the site.

Title Spill Clean up procedure

Purpose: This procedure details the steps to be taken when dealing with a spillage of a hazardous substance on site. It is required in order to:

- Protect Employees
- Protect the Environment
- Prevent Fugitive Emissions

Scope: This procedure applies to AES Rosslare.

Procedure:

Note:

This procedure should be followed for all small, large and massive spills, which may occur.

Definitions:

Small Spill: Less than 5 litres

Large Spill: Greater than 5 litres and less than 250 litres.

Massive Spill: Greater than 250 litres

1. Hazardous materials shall be handled (loaded, unloaded and moved) by a competent person using the correct equipment and appropriate protective clothing. Appropriate precautions should be taken at all times to minimise the risk of accidental spillage.

2. In the event of a spillage occurring, the Site Manager or the Deputy Site Manager shall initially investigate the following issues:

   - How long it has been since the incident occurred.
   - Consult the relevant data sheets (Material Safety Data Sheets or otherwise) for the method of spill containment and fire control of the affected material.
   - Contact the relevant emergency response number (local fire service, police, hospital and Environmental Protection Agency telephone numbers which are detailed on the Emergency Contact List.

- Locate the nearest fire suppression system as appropriate; Dry powder extinguishers for ABC fires [wood, paper, textiles, liquid fuels and gases] Foam extinguishers for AB fires [wood, paper, textiles and liquid fuels] Carbon Dioxide [liquid fuel fires and electrical equipment].

- Note the wind direction and any possible sources of ignition i.e. naked lights, machinery, electrical fittings, and combustible material and remove them from the area.

3. Evacuate the area (for large spills if necessary)

   - The Site Manager or any other designated person from the Emergency Response Team shall ensure that all personnel are evacuated in a calm, efficient manner. Staff should be instructed to walk briskly to their designated evacuation locations.

   - If flammable material is involved in the spill, isolate equipment and materials that may be affected.

   - If deemed necessary, the Site Manager or any other designated person from the Emergency Response Team shall instruct for the appropriate emergency services to be contacted.

4. The spillage must be contained using absorbent material, socks, booms or absorbent granules to create a secure dike. The Site Manager or any other designated person from the Emergency Response Team shall ensure that all appropriate personal protective equipment is worn [as detailed in the Material Safety Data Sheet for the spilled material(s)].

5. If the spillage emanated from a drum, position the drum so that the ruptured section is in an upwards direction, thereby preventing a further leakage.

6. If the spillage flows into or is likely to flow into the surface water drainage network, the manual shut-off valve shall be shut off to contain the spillage and prevent release to surface water.

7. Once the spill has been contained the liquid shall either be pumped, or removed into a container using non-spark shovels and labelled appropriately (contents, name and date).

8. Clean up Operation.

   - Use non-sparking shovels and brushes to sweep the spilled material into containers.
   - Start on the outside and work in towards the centre of the spill.
   - Do not mix different types of waste.
   - Drum the waste and seal the container or bag and double bag.
   - Label the waste with the destination name, appropriate hazard label and name of waste giving as much information as possible on contents, plus concentrations of constituents, etc.
   - If the spill occurred due to a damaged drum, place the ruptured drum into a salvage drum container, until disposal is arranged.
   - Decontaminate personnel by using the washing facilities.

9. Any waste material resulting from a spillage clean-up shall be dispatched to an appropriate facility for disposal and/or recovery. If the affected material is considered hazardous, it is stored in a container and collected as soon as possible by a certified hazardous waste disposal contractor.

10. Following an emergency, the Site Manager shall record details of the incident. Following a comprehensive investigation into the source of the emergency situation, a corrective action shall be formulated as per EP 8.0

11. Wexford County Council and the EPA shall be informed if hazardous chemical or firewater infiltrates the drainage network.

12. Spill kits are located as follows:

Number	Location	Description
1.	Warehouse 1	Labelled Wheelie Bin
2.	Warehouse 2	Labelled Wheelie Bin
3.	Warehouse 3	Labelled Wheelie Bin

13. The Site Manager must ensure that the resultant depleted spill kit (s) is /are replenished without delay. He must also ensure that replenishment stock is re-ordered straightaway.

14. On a weekly basis all spill response equipment shall be checked to ensure it is provided in agreed quantities and in suitable working condition.

Title Fire / Explosion Procedure

Purpose: A procedure to deal with fire/explosion emergencies is required for the following reasons:

- To protect Employees.
- To protect the Environment.
- To prevent fugitive emissions.

Scope: This procedure applies to AES Rosslare.

Procedure:

1. Employees shall only attempt to fight a fire if safe to do so. If an employee feels that they cannot tackle a fire safely and effectively, **EVACUATION OF ALL PERSONNEL IS THE PRIMARY PRIORITY.**

2. The Site Manager or Deputy Site Manager shall evacuate the area in a calm, efficient manner. All staff and contractors shall be instructed to walk briskly to the designated evacuation point.

3. In the event of a fire/explosion occurring, the Site Manager shall complete a role call to account for all employees and contractors that may be present on-site.

4. The Site Manager shall identify the location of the fire/explosion risk through dialogue with the individual who discovered the fire and shall take one of the following actions:

5. Determine whether the fire can be **SAFELY** isolated utilising the available fire fighting equipment.

6. If the fire is not controlled with the fire fighting equipment available, the local fire brigade shall be notified immediately. Local fire, police and hospital telephone numbers are detailed on the Emergency Contact List. These details are displayed at reception and within the site office. The Site Manager or any other designated person from the Emergency Response Team should;

    a. Dial 112 for emergency services
    b. Request emergency service
    c. Give details of type of emergency and phone number in case call is inadvertently disconnected
    d. Provide information requested by call recipient

e. Determine estimated time of arrival to site and communicate this information to the relevant member of ERT.
f. Hang up only when told to do so by call recipient
g. Fill out details required by emergency contact log as soon as it safe to do so.

7. If the fire can be safely isolated, locate the nearest fire suppression system as appropriate; Dry powder extinguishers for ABC fires [wood, paper, textiles, liquid fuels and gases] Foam extinguishers for AB fires [wood, paper, textiles and liquid fuels] Carbon Dioxide [liquid fuel fires and electrical equipment]. Only small localised fires should be extinguished in this manner.

8. Note the wind direction and any possible sources of ignition i.e. naked lights, machinery, electrical fittings, and combustible material and remove them from the area.

9. Personnel shall not re-enter buildings unless the Site Manager/Fire Officer deems it safe to do so.

10. Once the fire has been extinguished or the explosion controlled on site, personnel shall complete a clean-up operation as per EP05-ERP-02 using the available resources.

11. Effected areas shall be checked thoroughly in order to ensure that the fire is quenched. If the affected material is considered hazardous, it is stored in a container and collected as soon as possible by a certified hazardous waste disposal contractor.

12. Following an emergency, the Site Manager, or other designated responsible person shall record details of the incident as per EP 6.0 Incident Investigation Procedure

Title Malicious Damage Procedure

Purpose: This procedure is required in order to monitor and prevent malicious damage.

Scope: This procedure applies to AES Rosslare.

Procedure:

1. Where any occurrence of malicious damage is noted or where persons are observed causing malicious damage, the Site Manager shall be informed as soon as is practical.

2. Where malicious damage results in a significant environmental impact, or a potentially significant environmental impact, the Site Manager shall be advised who then undertakes to minimise and repair the damage caused.

3. Persons observed causing malicious damage shall be subjected to internal disciplinary action. The Site Manager, will report external persons to the Gardaí.

4. Following an emergency, the Site Manager, or other designated responsible person shall record details of the incident as per EP 6.0 Incident Investigation and Reporting.

Title Unforeseen Emergencies and Fugitive emissions

Purpose: The purpose of this procedure is to outline the procedure to be adhered to in the event of an unforeseen emergency.

Scope: This procedure applies to AES Rosslare.

Procedure:

1. Following the occurrence of an incident requiring emergency action, the observant shall contact the Site Manager or in his absence most senior representative of management on-site.
2. Access situation and severity. Request emergency services where necessary. If calling for the emergency services, local Fire, police and hospital telephone numbers are detailed on the Emergency Contact List in reception and within the site office.
    a. Dial 112 for emergency services
    b. Request emergency service
    c. Give details of type of emergency and phone number in case call is inadvertently disconnected
    d. Provide information requested by call recipient
    e. Determine estimated time of arrival to site and communicate this information to the relevant member of ERT.
    f. Hang up only when told to do so by call recipient
    g. Fill out details required by emergency contact log as soon as it safe to do so.
3. Should the incident be determined to be capable of being addressed in-house under the guidance of the most senior representative of management on-site, the Environmental Emergency Response Team shall be mobilised paying due regard to the appropriate emergency response procedure (EP 5.0-ERP 1-5).
4. In the event the situation involves a Man Down, do not move the casualty until First Aid or Emergency Services give instruction.
5. Once ERT arrive at the incident, all contractors and visitors must be directed to the assembly point.
6. In the event the Emergency Services are called, ERT will cordon off the area and ensure emergency services access is clear to the incident site.
7. Move all machinery not involved clear of the incident and switch engines off.

8. Once the situation is under control and has been deemed safe by the Site Manager or most senior member of management on site then the relevant report forms must be completed and the HSA informed where relevant.

9. In the event that the incident gives rise to an emission the Site Manager and the Emergency Response Team shall immediately
   - Isolate the source of any such emission
   - Carry out an immediate investigation to identify the nature, source and cause of the incident and any emission arising there from
   - Evaluate the environmental pollution if any caused by the incident
   - Identify and execute measures to minimise the emissions or malfunction and the effects thereof

6. Following an emergency, the Site Manager, or other designated responsible person shall record details of the incident as per procedure EP 6.0 Environmental Incident Investigation and Reporting. The Site Manger shall also identify and put in place measures to avoid reoccurrence and put in place any other appropriate remedial action. These corrective actions shall be documented as per procedure EP 8.0 Corrective and Preventive Action Procedure.

7. The Site Manager shall provide a proposal to the Agency for its agreement within one month of the incident occurring or as otherwise agreed by the Agency.

Procedures Manual		Document: EPL 5.1
Document Approved by: Site Manager	AES Rosslare t/a Goff Recycling Emergency Contact List	Revision: 0 Issue Date: 29/06/09 Page: Page 1 of 1

Title Emergency Contact List

Company	Name / Title	Phone Number/s
FIRE BRIGADE / AMBULANCE / POLICE		**999 / 112**
WEXFORD HOSPITAL		**053 915 3000**
EMERGENCY RESPONSE TEAM:		
Emergency Controller	Eamonn O'Neill	**087 856 5265**
Deputy Emergency Controller	James Cleary	**087 901 1855**
News/Media Controller	Garrett Leech	**086 6738102**
Fire Warden	Pat Cleary	**087 6643915**
Safety Representative	James Cleary	**087 901 1855**
Health & Safety Manager	Michael Whelan	**087 9868290**
Environmental Manager	Garrett Leech	**086 6738102**
Environmental Officer	Linda Cahill Elaine Murray	**087 7697465** **045 439464**

APPENDIX 3

Nuisance Control

Operations Manual		Document:	WI 7.0
Document Approved by: Site Manager	AES ADVANCED ENVIRONMENTAL SOLUTIONS IRELAND **AES Rosslare** Work Instructions Manual	Revision: Issue Date: Page:	0 08/07/09 Page 1 of 2

Title Vermin Control

Purpose: To define the procedure of Vermin Control at AES Rosslare.

Scope: All methods of vermin control in place on-site at AES Rosslare.

References: WI 2.0 Site Inspection Procedure
EWIF 2.2 Daily Environmental Nuisance Inspection Form
Rodent Control Contractor Site File

Procedure

1. Condition 5.6 of Waste Licence 229-01 states that Vermin, Birds and Flies associated with the waste activities on-site do not result in an impairment of, or an interference with, amenities or the environment at the facility or beyond the facility boundary or any other legitimate uses of the environment beyond the facility boundary.

2. On a daily basis, the site and its immediate surrounds shall be inspected for nuisances caused by Vermin, Birds and Flies as part of the Daily Nuisance Monitoring Procedure outlined in WI 2.0 Site Inspection Procedure. A record of inspections shall be maintained on EWIF 2.2 Daily Environmental Nuisance Inspection Form.

3. AES Rosslare uses the services of a specialist pest control contractor to provide a pest prevention service for rodents.

   The pest control contractor has bated the site and has set up an inspection schedule to visit the site approximately once a month, and carry out inspections, and servicing of poison bait boxes which are installed around the site.

   The Pest Control Contractors Site File will include details of the following –

   - Site visits and inspection findings.
   - MSDS sheets for rodenticides used.
   - Details of operator training.
   - A map showing the locations of all external bait stations on site.

   Precautions in order to minimise secondary poisoning of other species will be as follows –

- The use of first generation warfarin based anti-coagulant poisons which reduce the risk of secondary poisoning to other species.
- Rodenticides will be housed in specialised tamperproof and clearly marked bait stations which will be checked regularly and replaced if damaged.
- Removal of any dead rodents preventing scavengers from ingesting them.
- Proper disposal of empty rodenticide containers and storage of rodenticides in accordance with legislation.

APPENDIX 4

Summary of Emissions and Waste Management

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	Advanced Environmental Solutions (Ireland) Limited
Facility Name	Goff Recycling Limited
PRTR Identification Number	W0229
Licence Number	W0229-01

Waste or IPPC Classes of Activity

No.	class_name
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.
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.
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	Ballygillane Big/Ballyknockan
Address 2	St. Helens
Address 3	Kilrane
Address 4	Rosslare Harbour, County Wexford
Country	Ireland
Coordinates of Location	-6.34359 52.2398
River Basin District	IESE
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Linda Cahill
AER Returns Contact Email Address	lcahill@aesirl.ie
AER Returns Contact Position	Environmental Officer
AER Returns Contact Telephone Number	045-843805
AER Returns Contact Mobile Phone Number	087-7697465
AER Returns Contact Fax Number	045-981621
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
5(c)	Installations for the disposal of non-hazardous waste
5(c) 50.1	Installations for the disposal of non-hazardous waste General

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

Is it applicable?	No
Have you been granted an exemption ?	No
If applicable which activity class applies (as per Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being used ?	

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

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					
To Other Countries	15 01 01	No	1309.6	Baled Cardboard	D1	C	Weighed	Abroad	(MLM) ACN Europe,.	Adamson House Towers Business Park ,Wilmslow Road,Didsbury,Manchester M20 2YY,United Kingdom		
Within the Country	15 01 01	No	90.2	Baled Cardboard	D1	C	Weighed	Offsite in Ireland	Irish Packaging Recycling,WPR 021/02	Ballymount Road,Walkinstown,Dublin 12,.,Ireland		
Within the Country	15 01 01	No	1512.92	Mixed Paper and Cardboard Packaging	D1	C	Weighed	Offsite in Ireland	Dungarvan MRF,W0189-01	Shandon,Dungarvan,Co Waterford,.,Ireland		
Within the Country	15 01 01	No	1586.0	Mixed Paper and Cardboard Packaging	D1	C	Weighed	Offsite in Ireland	AES Tullamore,W0104-02	Cappincur Industrial Estate,Daingean Road,Tullamore,Co. Offally,Ireland		
To Other Countries	15 01 02	No	201.84	plastic packaging	D1	C	Weighed	Abroad	Asia Global Trade,.	7 Westbourne Gardens,London,.,W2 5NR,united kingdom		
Within the Country	15 01 02	No	95.06	plastic packaging	D1	C	Weighed	Offsite in Ireland	Leinster Environmental ,WP2008/06	Clermont Business Park,Haggardstown,Dundalk ,Co. Louth,Ireland		
Within the Country	15 01 07	No	87.89	glass packaging	D1	C	Weighed	Offsite in Ireland	Urban & Rural Recycling,WP/06/36(A)	Creeg,Ballycogley,Co. Wexford,.,Ireland		
Within the Country	17 01 02	No	794.52	bricks	D1	C	Weighed	Offsite in Ireland	Drehid Waste Management Facility,W0201-03	Killinagh Upper,Carbury,Co. Kildare,.,Ireland		
Within the Country	17 01 02	No	390.22	bricks	D1	C	Weighed	Offsite in Ireland	Goff Developments,WP-08-02	Ballyfinogue,Great Drinagh,Co Wexford,.,Ireland		
Within the Country	17 02 01	No	13.42	wood	D1	C	Weighed	Offsite in Ireland	AES Portlaoise,W0194-02	Kyletalesha,Portlaoise,co. Laois,.,Ireland		
Within the Country	17 02 01	No	341.92	wood	D1	C	Weighed	Offsite in Ireland	Murray Waste Recycling Ltd,WP-108-23	Coolatore,Ferns,Enniscorthy ,Co. Wexford,Ireland		
Within the Country	17 02 01	No	133.53	wood	D1	C	Weighed	Offsite in Ireland	Shredwood Ltd,WP/TN/101	Derryhogan,Littleton,Co. tipperary,.,Ireland		
Within the Country	17 04 07	No	26.3	mixed metals	D1	C	Weighed	Offsite in Ireland	Multimetals Recycling Ltd,.	Bollarney,The Murrough,Wicklow,Co. Wicklow,Ireland		
Within the Country	17 04 07	No	157.16	mixed metals	D1	C	Weighed	Offsite in Ireland	MSM Recycling,.	Mountmellick,.,.,Co. Laois,Ireland		
Within the Country	19 12 12	No	8864.9	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D1	C	Weighed	Offsite in Ireland	Drehid Waste Management Facility,W0201-03	Killinagh Upper,Carbury,Co. Kildare, .,Ireland		
Within the Country	19 12 12	No	776.08	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D1	C	Weighed	Offsite in Ireland	Ballynagran Residual Landfill,W0165-02	Ballynagran ,Coolbeg & Kilcandra,Co. Wicklow,.,Ireland		
Within the Country	20 03 01	No	1592.47	mixed municipal waste	D1	C	Weighed	Offsite in Ireland	Ballynagran Residual Landfill,W0165-02	Ballynagran ,Coolbeg & Kilcandra,Co. Wicklow,.,Ireland		
Within the Country	20 03 01	No	41.82	mixed municipal waste	D1	C	Weighed	Offsite in Ireland	Holmestown Waste Management Facility,W0191-02	Barntown,Co. Wexford,Wexford,.,Ireland		
Within the Country	**20 03 07**	**No**	363.46	Kerbside Recyclables	D1	C	Weighed	Offsite in Ireland	Greenstar Ltd (Bray),W0053-01	La Vallee House,Fassaroe,Bray Co. Wicklow,Wicklow,Ireland		
Within the Country	20 03 01	No	1583.22	Kerbside Recyclables	D1	C	Weighed	Offsite in Ireland	South Eastern Region MRF,W0189-01	Shandon,Dungarvan,Co Waterford,.,ireland		
Within the Country	20 03 01	No	1586.0	mixed municipal waste	D1	C	Weighed	Offsite in Ireland	AES Tullamore,W0104-02	Cappincur Industrial Estate,Daingean Road,Tullamore,Co. Offally,ireland		

* Select a row by double-clicking the Description of Waste then click the delete button