

ANNUAL ENVIRONMENTAL REPORT 2009

Regional Materials Recovery Facility

Merrywell Industrial Estate,
Ballymount Road Lower,
Ballymount,
Dublin 12

EPA Licence W0238-01









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1. INTRODUCTION

Greyhound Recycling and Recovery Ltd. operate Waste Licence W0238-01 on behalf of Dublin City Council.

The following Annual Environmental Report was prepared in accordance with Condition 11.11 and Schedule E of Waste Licence W0238-01, and with reference to Environmental Protection Agency guidance on Annual Environmental Reporting. This AER relates to the calendar year 2009. The report provides details of the activities carried out at the facility from the 5th of January 2009 to the 31st December 2009.

2. DESCRIPION OF THE SITE AND LICENSED ACTIVITIES

The Regional Materials Recovery Facility (MRF), is a specific objective of the Dublin Waste Management Plan 2005-2010. The MRF Ballymount Road Lower, Ballymount, Dublin 12 (53^o18'52"N, 6^o21'22"W) is located in the Merrywell Industrial Estate.

The facility is surrounded by various warehouses and industrial buildings including waste facilities. The Merrywell Industrial Estate is bordered by Ballymount Road Lower to the South, Turnpike Road to the West and Robinhood Road to the North.

Greyhound Recycling and Recovery Ltd commenced operation of the Regional Materials Recovery Facility on behalf of the four Dublin Local Authorities under Waste Licence W0238-01 in January 2009. This licence allows Greyhound Recycling and Recovery Ltd. to carry out the following waste handling activities as permitted under the Third and Fourth Schedules of the Waste Management Act 1996 to 2003:

 Class 12 and 13 Waste Disposal Activities, in accordance with the Third Schedule of the Waste Management Act, 1996.

Third Schedule, Class 12: Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.

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

 Class 2, 3, 4 and 13 Waste Recovery Activities, in accordance with the Fourth Schedule of the Waste Management Act, 1996.

Forth Schedule, Class 2: Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes). Principle activity.

Forth Schedule, Class 3: Recycling or reclamation of metal and metal compounds.

Forth Schedule, Class 4: Recycling or reclamation of other inorganic materials

Forth 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 the waste concerned is produced.

Greyhound Recycling & Recovery Ltd accepts dry recyclable materials that have been collected in a single commingled waste stream from kerbside collections to the Regional Materials Recovery Facility. The materials accepted include paper, newspapers, magazines, cardboard, aluminium cans, steel cans, tetrapak beverage cartons, plastic bottles including PET, HDPE, PVC containers and plastic film. All materials collected and processed at the Regional MRF come from the Dublin Region.

3. WASTE MANAGEMENT RECORD

Materials entering the Regional MRF are weighed and documented at the weighbridge in accordance with the facility waste licence W0238-01. Once weighed the mixed recyclable material is tipped into the processing building where it is inspected and segregated both manually and mechanically. The segregated materials are baled and stored in designated bays where they are bulked up before being loaded into 40 foot containers for transport to approved recycling or recovery facilities for further processing.

All non conforming waste that comes on site is segregated from the main material stream and placed in the designated quarantine area for appropriate recovery/reprocessing offsite.

Waste Accepted 2009

Greyhound Recycling and Recovery Ltd accepted the following waste streams during the reporting period:

- Mixed municipal waste comprising of paper, newspaper, magazines, cardboard, metals and plastics.
- Mixed packaging waste comprising of cardboard, metals and plastics.

4. WASTE QUANTITIES 2009

The Regional Materials Recovery Facility is licensed to handle a maximum of 100,000 tonnes of mixed recyclable waste per annum. Material enters the Regional MRF from Dublin City Council Bring Centres (Mixed Packaging) and from green bin household collections in the Dublin Region (Mixed Municipal Waste).

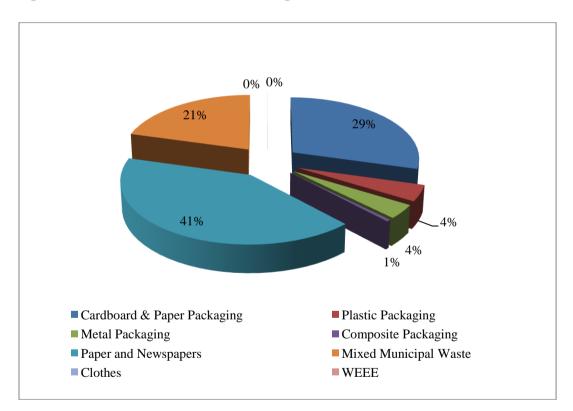
The total quantity of material accepted and processed at the licensed facility during the reporting period was 71,179.78 tonnes. The percentage recovery/recycled achieved on wastes handled at the facility during the reporting period was 79% recycled, 21% recovered. A tabulated breakdown of the quantity and composition of wastes received, recovered, and recycled, during the reporting period is shown in table 1.

Figure 1 shows the breakdown in percentage of material consigned from the MRF.

Table 4.1: Waste Acceptance and Dispatch

EWC Code	Description of Waste	Waste In (tonnes)	Waste Out (Tonnes)	Recovery -R Recycling – Rd	%
15 01 01	Cardboard & Paper Packaging		19,623.44	Rd	29%
15 01 02	Plastic Packaging		2,857.09	Rd	4%
15 01 04	Metal Packaging		2,482.07	Rd	4%
15 01 05	Composite Packaging		336.00	Rd	1%
15 01 06	Mixed Packaging	1,907.42			
20 01 01	Paper and Newspapers		27,702.15	Rd	41%
20 03 01	Mixed Municipal Waste	69,272.36	13,807.74	R	21%
20 01 11	Clothes		8.54	Rd	0%
20 01 36	WEEE		1.30	Rd	0%
	Total	71,179.78	66,818.30		100%

Figure 4.1: Breakdown of Waste Consigned



The recycling target for household waste as set in the Waste Management Plan 2005-2010 for the Dublin Region is 60% recycling, 39% waste to energy and 1% to landfill to be achieved by 2013. This facility is well on the way to achieving these targets. The recycling and recovery rate for the facility for 2009 is 100% of all waste leaving the site (Table 2). No material leaving the facility went to landfill in 2009.

The waste recovered consists mainly of fines, contaminated dry recyclable material and non conforming mixed municipal waste which was used in Solid Recovered Fuel (SRF) production. The recycled materials consist of paper, cardboard, Tetrapak, all plastics, steel cans and aluminium cans.

Table 4.2: Recycling and Recovery Rates 2009

Waste Statistics 2008	Tonnes	%
Total Waste Out	66,818.30	100
Total Waste Recycled	53,010.56	79
Total Waste Recovered	13,807.74	21
Total Recycled and Recovered	66,818.30	100

5. ENVIRONMENTAL MONITORING AND EMISSIONS DATA

Monitoring of emissions from the facility during the reporting period was carried out in accordance with Condition 6 and Schedule C of the facility waste licence W0238-01.

Table 5.1: Storm Water Emissions Monitoring

Parameters	COD	Suspended Solids	рН	Visual Inspection
ELV Grab (mg/l)	3000	1000	6-10	Scale of 1-10
8/1/2009			7.9	9
15/1/2009			7.1	9
23/1/2009			6.9	9
30/1/2009			8.6	8
5/2/2009			6.8	8
12/2/2009			7.3	9
17/2/2009			7.5	9
27/2/2009			8.1	9
6/3/2009			6.3	9
13/3/2009			6.9	9
19/3/2009			6.7	9
27/3/2009			6.9	8
3/4/2009			7.0	9
10/4/2009			8.1	9
17/4/2009			8.0	9
23/4/2009			6.9	9
30/4/2009			7.0	8

8/5/2009			7.9	9
14/5/2009			7.1	9
4/6/2009			7.7	8
11/6/2009			7.7	9
18/6/2009			7.0	9
				9
26/6/2009			7.2	9
3/7/2009			7.1	
9/7/2009			8.1	9
17/7/2009			7.7	9
24/7/2009			6.4	9
31/7/2009			8	9
6/8/2009			7.1	9
17/8/2009			6.8	9
21/8/2009			7.4	9
28/8/2009			7.7	9
4/9/2009			7.1	9
11/9/2009			8.1	9
18/9/2009			8.5	8
24/9/2009			6.9	9
25/9/2009	13	10		
2/10/2009			7.2	9
9/10/2009			7.0	9
15/10/2009			6.3	9
23/10/2009			6.9	9
30/10/2009			8.2	9
6/11/2009			6.7	9
13/11/2009			7.0	9
19/11/2009			7.7	9
27/11/2009			6.7	9
4/12/2009			7.1	9
11/12/2009			7.1	9
15/12/2009	5	<2	,,,	
17/12/2009	J	~~	7.3	9
17/12/2009			1.3	

Table 5.2: Noise Monitoring

Monitoring location	Day /Night period	L _{Aeq} dB(A)	$egin{aligned} L_{A90} \ dB(A) \end{aligned}$	L _{A10} dB(A)
NI1	Day	68.7	47.2	65.6
N1	Night	47.9	39.0	49.2
NO	Day	47.8	43.4	50.4
N2	Night	42.2	39.6	44.9
NIC	Day	53.7	45.8	55.4
N3	Night	41.8	38.9	43.5

Date of Survey: 4th August 2009

6. RESOURCE AND ENERGY CONSUMPTION

Data on resource, energy and primary raw material consumption for the reporting period is presented in Table 6.1 (below):

Table 6.1: Resource and Energy Usage in 2009.

Raw Material/Resource	Application	Consumption
Electricity	Office and plant use	2,378,426 kWh
Hydraulic Oil	Process plant and fleet vehicles	9,000 Litres
Marked Diesel	Mobile plant machinery	64,700 Litres
Derv Diesel	Collection Vehicles	538,000 Litres

7. ENERGY EFFICIENCY AUDIT SUMMARY

Fahy Fitzpatrick Consulting Engineers carried out an energy audit of the MRF, weighbridge and administration building. The objective of the audit was to gather baseline data with a view to identifying and working towards goals and priorities for future improvements.

The energy audit covered the following areas:

- 1. Electrical Consumption
- 2. Lighting both internal and external
- 3. Oil Consumption
- 4. Office Equipment
- 5. Motor Equipment
- 6. Other miscellaneous equipment

The audit found that at present the energy management matrix level of the facility is between a Level 1 and a Level 2. The recommendations of the audit are currently under senior management review. The main recommendations from the audit report include staff training on energy efficient practices on site, reducing the current MIC for the site and use of energy efficient lighting throughout the facility. The Energy Audit Report was sent to the Agency.

8. ENVIRONMENTAL SYSTEMS & PROCEDURES

Greyhound Recycling and Recovery Ltd. hold ISO9001 and ISO14001 management system accreditations for the facility. All reviews, amendments, and implementations of quality and environmental procedures are undertaken within the framework of the ISO9001 and ISO14001 management systems.

9. ENVIRONMENTAL RISK ASSESMENT AND OUTCOMES

An environmental risk assessment was carried out in January 2009 covering all aspects of the MRF operation. The environmental risk assessment identified all impacts to the environment that may be caused to the surrounding environment due to onsite activities. The significance of the impacts was then quantified using the following equation:

Frequency (F) x Likelihood of loss of control (L) x Severity (S) x Legal Requirements = Significance Rating (C)

The two areas which scored >-40 had procedures drawn up to avoid having an impact on the surrounding environment. These areas are highlighted in the attached Register of Environmental Aspects and Impacts which can be found in Appendix A of the report.

10. REVIEW OF ENVIRONMENTAL OBJECTIVES AND TARGETS FOR 2009

No.	Aspects	Objective	Target	Responsibility of	Due	Status
1	Waste Management	Ensure the most efficient and environmentally sustainable management of material	Establish quarantine area in waste acceptance area – install quarantine cage and appropriate hazardous waste containers	Environmental Officer	January 2009	Complete
		entering the MRF	Promote Recycling in-house within the MRF site offices	Environmental Officer	On-going	On-going
			Carry out a packaging survey for REPAK	DCC / Repak / Environmental Officer	November 2009	Complete
			Carry out a waste characterisation survey	Environmental Officer	September 2009	Complete
2	Compliance with the facility Waste	Operate the facility in accordance with the Conditions	Review training schedule of each staff member and identify training needs	Environmental Officer	On-going	Complete
	Licence	of the Waste Licence and promote continual	Continue programme of regular inspections	Environmental Officer	On-going	On-going
		environmental improvement	Continue to maintain the appropriate records at the facility in accordance with Condition 11 of the facility Waste Licence	Environmental Officer	On-going	On-going
3	Water/Oil	Prevent surface water contamination	Installation of two metal bunds in maintenance room – one of the two is to hold large drums, the second is to hold smaller containers	Environmental Officer	January 2009	Complete
			Training for spill/leak response and the use of bund spill kits for all staff working in the MRF	Environmental Officer	Jan – Feb 2009	Complete
			Install 2 fully equipped spill kits – 1 in the	Environmental	January	Complete

			maintenance room and one in the operations around the balers.	Officer	2009	
			Carry out an integrity test on all pipes around the facility	Environmental Officer	July 2009	Complete
			Carry out a risk assessment to determine if the MRF requires a fire water retention facility	Environmental Officer	June 2009	Complete
4	Traffic Management	Achieve organised, efficient and safe movement of cars,	Installation of appropriate traffic management signage around the site	H&S Manger	January 2009	Complete
		trucks and machinery on site minimising noise and emissions	Installation of a side barrier on weighbridge to ensure that trucks entering and exiting the site are be weighed properly	Environmental Officer	January 2009	Complete
5	Resource Use and Energy Efficiency	Identify opportunities for energy use reduction and efficiency.	Carry out an extensive energy audit and identify where savings on energy use can be made	Environmental Officer / SEI	July – August 2009	Complete
			Dedicate an Energy Saving Manager and provide training for all staff on energy efficient practices	Environmental Officer	July 2009	Postponed to 2010
6	Public Relations	Minimisation of Complaints	Effectively deal with complaints	Environmental Officer	On-going	On-going
			Formulate action plans for all aspects of the service to minimise complaints	MRF Management Team	On-going	Complete
			Maintain a high standard of housekeeping practises at the facility to minimise the number of complaints – avoid windblown litter incidences	Environmental Officer	On-going	Complete
7	Miscellaneous	Ensure that all environmental aspects are identified and appropriate measures are put in	Carry out a noise survey Prepare procedures for any of the aspects identified that require procedures i.e. site litter	H&S Manger Environmental Officer	May 2009 February 2009	Complete Complete

	place to avoid these aspects	Ensure that there are a sufficient number of fire	H&S Manger	February	Complete
	having a damaging effect on the	extinguishers in the MRF and that the sprinkler		2009	
	environment	system and fire alarm are tested periodically			

11. ENVIRONMENTAL OBJECTIVES AND TARGETS FOR 2010

No.	Aspects	Objective	Target	Responsibility of	Due
1	Waste Management	Ensure the most efficient and environmentally sustainable	Promote Recycling in-house within the MRF site offices	Environmental Officer	On-going
		management of material entering the MRF	Update weighbridge software to record contaminated loads	Environmental Officer	January 2010
			Update banksman procedure to include inspection of incoming material and communication to weighbridge	Environmental Officer	January 2010
			Carry out waste characterisation surveys monthly – to include quarterly residual waste characterisation survey	Environmental Officer	January 2010
2	Compliance with the facility Waste	Operate the facility in accordance with the Conditions	Review training schedule of each staff member and identify training needs	Environmental Officer	On-going
	Licence	of the Waste Licence and promote continual	Continue programme of regular inspections to include storm water sampling	Environmental Officer	On-going
		environmental improvement	Continue to maintain the appropriate records at the facility in accordance with Condition 11 of the facility Waste Licence	Environmental Officer	On-going
			Put pest control programme in place	Environmental Officer	April 2010
3	Water/Oil	Prevent surface water	Installation of third metal bund in maintenance room to	Environmental	March

		contamination	store waste oil	Officer	2010
			Retrain all MRF staff in spill/leak response and the use	Environmental	February
			of bund spill kits	Officer	2010
			Schedule GRR road sweeper to clean site roads once per	Environmental	March
			week	Officer	2010
4	Traffic Management	Achieve organised, efficient and safe movement of cars,	Repair existing traffic control units	H&S Manger	January 2010
		trucks and machinery on site			2010
		minimising noise and emissions			
5	Resource Use and	Identify opportunities for	Identify where energy savings can be made	Environmental Officer	May 2010
	Energy Efficiency	energy use reduction and efficiency.	Dedicate on Energy Coving Manager and provide	Environmental	May 2010
		efficiency.	Dedicate an Energy Saving Manager and provide training for all staff on energy efficient practices	Officer	May 2010
6	Public Relations	Minimisation of Complaints	Effectively deal with complaints	Environmental	On-going
0	Fublic Relations	withinsation of Complaints	Effectively deal with complaints	Officer	On-going
			Formulate action plans for all aspects of the service to	MRF	On-going
			minimise complaints	Management	
			•	Team	
			Maintain a high standard of housekeeping practises at	Environmental	On-going
			the facility to minimise the number of complaints	Officer	
7	Material Quality	Ensure that all containers	Provide material quality training to all MRF to ensure	Facility Manager	January
		leaving the site have been	that material loaded for export is of a high quality grade		2010
		loaded accordingly and that the	Retrain forklift drivers on appropriate picture taking as	Environmental	January
		material therein conforms to specified quality standards	per TFS Regulations	Officer	2010
		specified quanty standards	Install additional chutes to remove plastic film from main material stream	Facility Manager	June 2010

12. INCIDENTS

There were two monitoring incidents recorded during the reporting period due to a scheduling error. The non-monitoring incidents related to storm water discharge testing. The scheduling error encountered was reported to the EPA and relevant corrective action measures were put in place to avoid reoccurrence of such an incident.

13. COMPLAINTS

The facility received 6 complaints in total during the reporting period.

The complaints received during the reporting period were mainly related fly activity in the area. Please see Appendix Register of Environmental Complaints.

14. TANK AND PIPELINE TESTING AND INSPECTION REPORT

Siac Construction Ltd. carried out all pipeline integrity testing in December 2008 the types and results of which can be seen in Appendix C of the report. The pipes are scheduled to be retested in December 2011.

15. FINANCIAL PROVISION

Greyhound Recycling and Recovery Ltd. public and product liability indemnity limit is up to €6,500,000. In terms of environmental pollution the indemnity applies to damage to any buildings or other structures, to any water, land or atmosphere caused by pollution or contamination. The policy covers pollution caused by a sudden, identifiable, unintended and unexpected event and not gradual pollution. This cover will be in excess of any environmental liability that may arise due to such incident.

All trans-frontier shipment of non-green list material undertaken by Greyhound Recycling and Recovery is effected under a financial guarantee calculated on the cost for return and disposal of material where warranted.

16. MANAGEMENT AND STAFFING STRUCTURE

Name	Position	Responsibilities	Experience	Backup
Brian Buckley	Director	Overall Management of site	11 years experience, FAS Waste course completed	Michael Buckley
Michael Buckley	Director	Overall Management of site	11 years experience, FAS Waste course completed	Brian Buckley
Cormac Sheils	Group Operations Manager	EPA licence compliance, Group operations, Health & Safety	10 years experience food, byproducts and waste management industry	Clare Donnellan Ivans Harolskis
Clare Donnellan	Environmental Officer	EPA licence compliance, ISO9001, ISO14001,	2 years experience in Waste management	Aidan Rooney
Ivans Harolskis	Group Operations Supervisor	Production, Waste type and quality check	5 years experience in Waste management,	Tomas Macionis
Padraig Traynor	Maintenance Manager	Plant Machinery Maintenance management	5 years of experience with vehicle and machinery maintenance	Frank McBride
Brian McGrath	Administration Manager	Accounts Department, invoicing, purchasing	9 years experience in accounts	Gareth Holland

17. PROGRAMME FOR PUBLIC INFORMATION

Greyhound Recycling and Recovery Limited maintains a *Public Information File* at the licensed facility. This file contains specified information relating the environmental performance of the Company. The file is available for inspection by the public on request at the facility. No public requests for information were received during the reporting period. Greyhound Recycling and Recovery Limited also maintains a facility notice board providing facility information including facility licence number and operating hours.

18. RESIDUALS MANAGEMENT PLAN

There are no changes in the Residuals Management Plan which was submitted to the Agency in October 2008.

Appendix A

Assessment of Environmental Aspects & Impacts

 $\mathbf{N} = \text{Normal}$ $\mathbf{A} = \text{Abnormal}$ $\mathbf{D} = \text{Direct}$ $\mathbf{I} = \text{Indirect}$

Frequency

Frequency of each aspect occurring

Rating	Category
1	Rare
2	Infrequent
3	Often
4	Frequent
5	Very frequent

Likelihood of Loss of Control

1 = Unlikely **5** = Highly likely

Severity

Severity of the consequences of an incident

Rating	Category	Description
1	None	The pollutant will cause no damage
-1	Negligible	Impact is relatively innocuous
-2	Low	Impact causes inconvenience or slight nuisance rather than harm
-3	Medium	Impact could cause harm to plant/animal/bird/insect/marine life
		etc and be a nuisance to neighbours and employees
-4	High	Impact could cause death to plant/animal/bird/insect/marine life
		etc and cause major nuisance to neighbours and employees
-5	Extreme	Impact is persistent or could harm the health of the local
		population or lead to loss of human life

Legal Requirement

1 = No legislation exists

2 = Legislation must be complied with

Result

Frequency x Likelihood of Loss of Control x Severity x Legal Requirements = Significance Rating C

Register of Aspects and Impacts

Frequency (F) x Likelihood of Loss of Control (L) x Severity (S) x Legal Requirements = Significance Rating C

Dep.	Ref.	Aspect N = Normal A = Abnormal	Impact D = Direct I = Indirect	Frequency of Occurrence (F)	Likelihood of Loss of Control (L)	Severity of Consequences (S)	Legal Requirements	Significance Rating C
Collections / Site	N	On-site vehicle noise (N)	Local increase in noise levels (D)	2	3	-3	2	-36
Recyclables	N	On-site operation – processing (N)	Local increase in noise levels (D)	2	3	-3	2	-36
Site	SW	Poor drainage infrastructure (N)	Raised BOD & COD levels (D)	2	3	-3	2	-36
Recyclables	LD	Waste acceptance / production break – lack of capacity (A)	Recyclables waste sent to landfill (I)	1	3	-3	2	-18
Transport / Processing	SW	Vehicle washing (N)	Possible surface water contamination (D)	1	3	-3	2	-18
Transport / Processing	SW	Vehicle washing (N)	Increased loading at sewage treatment plant (D)	2	2	-3	2	-24
Waste Transfer	LD	Landfilling of residual waste (A)	Reduction of capacity at landfill sites (I)	1	4	-3	2	-24
Waste Transfer	LD	Landfilling of residual waste (A)	Increased pollution problems at landfill sites (I)	1	4	-3	1	-12
Waste Transfer	LD	Hazardous waste in recyclables bin – not picked out and sent to landfill (A)	Contamination of land (I)	1	3	-4	2	-24
Site	FW	Surface water going to foul sewer (N)	Increased loading at sewage treatment plant (D)	4	4	-1	2	-32
Waste Transfer	N	Odour from waste processing activity (A)	Nuisance to neighbours (D)	1	3	-3	2	-18
Transport	N	Odour from waste transport on-site (A)	Nuisance to neighbours (D)	1	3	3-	2	-18
Collection	A	Road Vehicles Operation Emissions (N)	CO ₂ , CO, SO _x , NO _x , particulates and HC's – ground level ozone, greenhouse effect &	5	2	-1	2	-20

			acidification (D)					
Maintenance	SW	Lack of bunded storage facilities for drums on site (N)	Potential for hydrocarbon spills (D)	2	2	-4	2	-24
Recyclables	A	Dust associated with normal operations (N)	Local air pollution (D)	2	3	-2	2	-24
Collections	N	Windblown litter from vehicles (N)	Litter pollution along collection route (D)	2	2	-3	2	-24
Maintenance	SW LD	Hazardous wastes from maintenance of onsite machinery – Improper storage and handling of waste (A)	Possible contamination of surface / ground water (D)	2	2	-4	2	-32
Site	GW	Surface water (N)	Possible contamination of ground water (D)	2	4	-2	2	-32
Transfer / Maintenance	SW DW	Chemical / oil drums not clearly labelled (N)	Potential for health & safety or environmental accident (D)	1	2	-4	2	-16
Site Construction	N	Construction & site development noise (A)	Local increase in noise levels (D)	1	4	-2	2	-16
Maintenance	SW GW	Vehicle / machinery leaks causing off-site spill of hydrocarbons (A)	Surface and ground water contamination (I)	2	2	-4	2	-32
Site / Transfer	N	Windblown litter on-site (N)	Local litter pollution (D)	3	4	-2	2	-48
All	R	Machinery, vehicle and surface cleaning (N)	Water usage – resource depletion	4	2	-3	1	-24
Office	R	Administration paper use (N)	Resource Depletion – forests	5	1	-3	1	-15
Construction	SW	Construction and Site Development (A)	Increase suspended solids in storm and surface water runoff (D)	1	2	-3	2	-12
Transfer /	SW	Detergent spill (A)	Surface water	1	3	-3	2	-18

Maintenance			contamination, possible eutrophication (D)					
All	SW	Fire fighting systems – release of liquid organics (A)	Contamination of surface water (D)	1	3	-4	2	-24
Maintenance / Transfer	LD	Spill of oil on non concreted surface (A)	Soil and land contamination (D)	1	4	-3	2	-24
Transfer	N	Visual Impact of facility (N)	Reduction of physical amenity of area (D)	5	1	-1	1	-5
Waste Transfer	A	Waste on fire (A)	Emission of various gases to the air including dioxins (D)	1	5	-4	2	-40
Waste Transfer	SW A	Handling of hazardous wastes (A)	Spillage: Contamination of surface water, escape to the air (D)	1	3	-4	2	-24
Site	LD GW	Migration of contaminated surface water from high area to non concreted area (N)	Soil and land contamination (D)	1	4	-3	2	-24
Site	SW	Migration of contaminated surface water from HIGH to LOW risk area (N)	Contamination of surface water (D)	1	4	-3	2	-24
Waste Transfer	FW	Quarantined mixed waste on fire(A)	Increase COD and suspended solids in foul water effluent from firewater	1	4	-4	2	-32
Site	SW	Lack of oil separators for the treatment of surface water (N)	Contamination of surface water (D)	2	3	-2	2	-24

Appendix B

Register of Environmental Complaints

	Date Recieved	Complainant	Actions carried Out / In Place	Reoccurance of Issue
Litter / Housekeeping	27th February 2009	A Local Business - Fuji Fijitsu complained to Oxigen Environmental about litter from operations	A joint action plan was put in place between Oxigen Environmental and Greyhound Recycling. Both sites put a yard sweeper in place daily to combat the issue of windblown litter	None
Fly Activity	27th March 2009	The complaint was made by residents of the Ballymount Cottages to South Dublin County Council	An investigation was carried out, the findings of which were sent to SDCC	Yes
	16th April 2009	The complaint was recieved by the EPA from an unamed source	An investigation was carried out, the findings of which were sent to the EPA	Yes
	11th May2009	The EPA inspected the site and a non-compliance was issued	An investigation was carried out and all remediation work was put in place	Yes
	2nd June 2009	The complaint was made by residents of the Ballymount Cottages to Dublin City Council	A response explaining the issue and actions taken to minimise the problem was sent to DCC	None
Material Quality	9th July 2009	The complaint was made by the National TFS Office to Greyhound regarding contamination of a load of material leaving the MRF	The container was returned to the MRF were an investigation into the quality issue was carried out. The material in the container was reworked before leaving the site	None

Appendix C

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Ballymount MRF	Pipe Testing		
	Schedule		
Pipe Line	Type of Test	Duration of Test	Test Result
MH 01 to MH 02	Air Test	5min	Pass
MH 02 to MH 03	Air Test	5min	Pass
MH 03 to MH 04	Air Test	5min	Pass
MH 04 to MH 05	Air Test	5min	Pass
MH 05 to MH 06	Air Test	5min	Pass
MH 06 to MH 07	Air Test	5min	Pass
MH 07 to MH 08	Air Test	5min	Pass
MH 08 to MH 09	Air Test	5min	Pass
MH 10 to MH 11	Air Test	5min	Pass
MH 12 to MH 13	Air Test	5min	Pass
MH 13 to MH 14	Air Test	5min	Pass
MH 14 to MH 15	Air Test	5min	Pass
MH 15 to MH 16	Air Test	5min	Pass
MH 16 to MH 17	Air Test	5min	Pass
MH 17 to MH 18	Air Test	5min	Pass
MH 18 to MH 19	Air Test	5min	Pass
MH 19 to MH 20	Air Test	5min	Pass
MH 20 to MH 21	Air Test	5min	Pass
MH 21 to MH 22	Air Test	5min	Pass
MH 22 to MH 23	Air Test	5min	Pass
MH 23 to MH 24	Air Test	5min	Pass
MH24 to MH 25	Air Test	5min	Pass
MH25 to MH 26	Air Test	5min	Pass