

SOUTH TIPPERARY COUNTY COUNCIL



WALLER'S LOT RECYCLING CENTRE & WASTE TRANSFER STATION ANNUAL ENVIRONMENTAL REPORT

2011

Waste Licence Register No. W0200-01

Prepared by:

South Tipperary County Council
Emmet Street
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March 2012

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1. INTRODUCTION

This Annual Environmental Report (AER) is required for submission to the Environmental Protection Agency in accordance with Condition 12.4 of Waste Licence W0200-01 for the Waller's Lot Site. This report presents the all the environmental data and other relevant information regarding the operation of the Waller's Lot Site for 2011

1.1. Scope and Purpose of the Report

South Tipperary County Council holds a waste licence (Register No W0200-01) for the operation of the Waller's Lot Site. The aim of this Annual Environmental Report (AER) is to provide a review of activities at the Waller's Lot Site during 2011.

This is the third AER to be submitted under Condition 12.4 of the licence. The Content of this AER is as defined in Schedule G of the waste licence.

1.2. Site Location

Waller's Lot is located on the edge of Cashel town.

The location of the site is shown on Figure 1.1.

The National Grid Reference for the site is: 208538969 139873395

1.2.1. Site Contacts

Name:	Mr. Pat Walsh
Job Title:	Site Manager
Telephone No:	(062) 64150
Fax No:	(062) 64157

Name:	Mr. Pat O' Dwyer
Job Title:	Deputy Site Manager:
Telephone No:	(052) 34882
Fax No:	(052) 34391

Name:	Ms. Ann Peters
Job Title:	Executive Engineer
Telephone No:	(052) 34397
Fax No:	(052) 34391

1.3. Environmental Policy

South Tipperary County Council is committed to conducting all activities such that they have a minimal effect on the environment.

South Tipperary County Councils main objectives are:

1. To comply with the Waste Licence (Licence Reg. W0200-01) and all relevant environmental legislation
2. To ensure that all facility infrastructure, as required in Condition 3 of the Waste Licence, is established
3. To ensure that all site personnel are familiar with:
 - a. the Conditions of the Waste Licence
 - b. the content of the Environmental Management System
 - c. all operational procedures
4. To reduce the potential for negative environmental impacts by a programme of continuous development on-site and appropriate mitigation measures.
5. To carry out all environmental monitoring, as required by Condition 9 of the Waste Licence.
6. To provide adequate training and awareness to all employees with regard to minimising environmental risks.

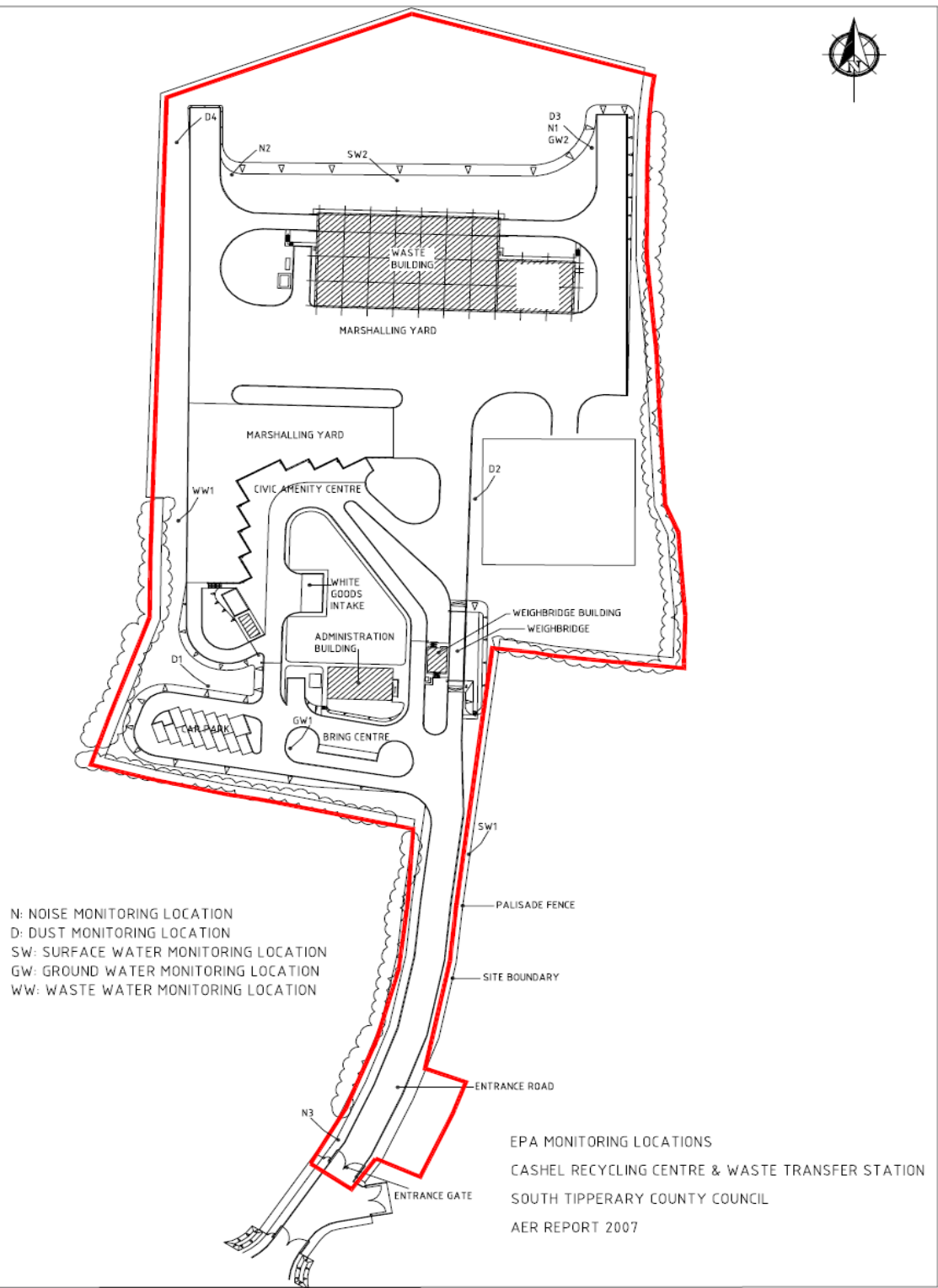


FIGURE 1.1: SITE LOCATION MAP

2 WASTE ACTIVITIES

The licensed waste disposal activities of the facility, in accordance with the Third Schedule of the Waste Management Act 1996 to 2003 are:

- Class 12. Repackaging 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 is produced.

The licensed waste disposal activities of the facility, in accordance with the Third Schedule of the Waste Management Act 1996 to 2003 are:

- Class 2. Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
- Class 3. Recycling or reclamation of metals and metal compounds
- Class 4. Recycling or reclamation of other inorganic materials
- Class 11. Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.
- Class 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.

The main activity at the site is as a Civic Amenity Centre and as a Waste Transfer Station.

Schedule A of the waste licence outlines the types and volumes of waste that can be accepted at the site. They are shown in Table 2.1 below.

Table 2.1: Licensed Categories and Quantities of Waste for Disposal

Waste Category	Maximum Quantity (Tonnes per annum)
Household and Commercial Waste	21,000
Household Hazardous Waste	100
Total	21,100

2.1 Waste Quantity and Composition

The quantity of waste removed from Waller's Lot in 2011 is outlined in Table 2.2.

Table 2.2: Detailed Quantities of Waste removed from Waller's Lot 2011

Waste Type	EWC Code	Quantity of Waste (Tonnes)
Aerosols	06 05 04	0.32
Batteries	16 06 01*	0.80
Cardboard	15 01 01	17.24
C + D	17 09 04	108.60
Cooking Oil	20 01 25	0
Aluminium Cans	19 08 14	1.64
Dry Recyclables	20 03 01	2,615.48
Fluorescent tubes	20 01 21	0.64
Glass	20 01 02	32.90
Hard Plastics	20 01 39	10.34
Household Hazardous	20 01 27 / 20 01 37	1.22
Electric Fence Batteries	20 01 33	0.66
Lead Acid Batteries	16 06 01	0
Mattresses	20 03 07	22.52
Metal	20 01 40	84.9
Oil Filters	16 01 07	0
Tyres	16 01 03	0
Household Waste	20 03 01	8,648.50
Newsprint	20 01 01	34.78
Steel Food Cans	15 01 04	1.68
Timber	20 01 37* / 20 01 38	264.80
WEEE	20 01 35*/ 20 01 36	121.26
Waste Water	20 03 04	69.28
Waste Oil	13 08 99	2.08
Textiles	20 01 10 / 20 01 11	27.94
Plaster Board\Gypsum	17 08 02	31.44
Plate Glass	17 02 02	10.38
Plastic Bottles	15 01 02	3.02
Farm Plastic	15 01 02	115.08
Gas Cylinders	15 01 11	0
	Total	12,227.50

3 MONITORING AND EMISSIONS

The monitoring carried out during 2011 is detailed below. All environmental monitoring locations are illustrated in Figure 3.1.

3.1 Dust Monitoring

Condition 9 and Schedule D.2.1 of the licence requires that the licensee conducts the following dust monitoring:

- Three times a year (two of which must occur between May and September) using the Standard Methods VDI2119 at onsite 4 locations.

3.1.1 Dust Monitoring Results

Dust Deposition Monitoring

Dust deposition monitoring was carried out in June, August. The results are shown in Table 3.1 below.

Dust Monitoring Point	Emission Limit	Q1 2011	Q2 2011	Median
D1 (mg/m ² /day)	350	207	49	128
D2 (mg/m ² /day)	350	11	44	27.5
D3 (mg/m ² /day)	350	232	10	121
D4 (mg/m ² /day)	350	2693	34	34*

Dust levels on site were well below limit value of 350 mg/m²/day at each of the monitoring stations during the monitoring period.

*Please see Appendix 1

WALLERS LOT WASTE TRANSFER STATION AND CIVIC AMENITY

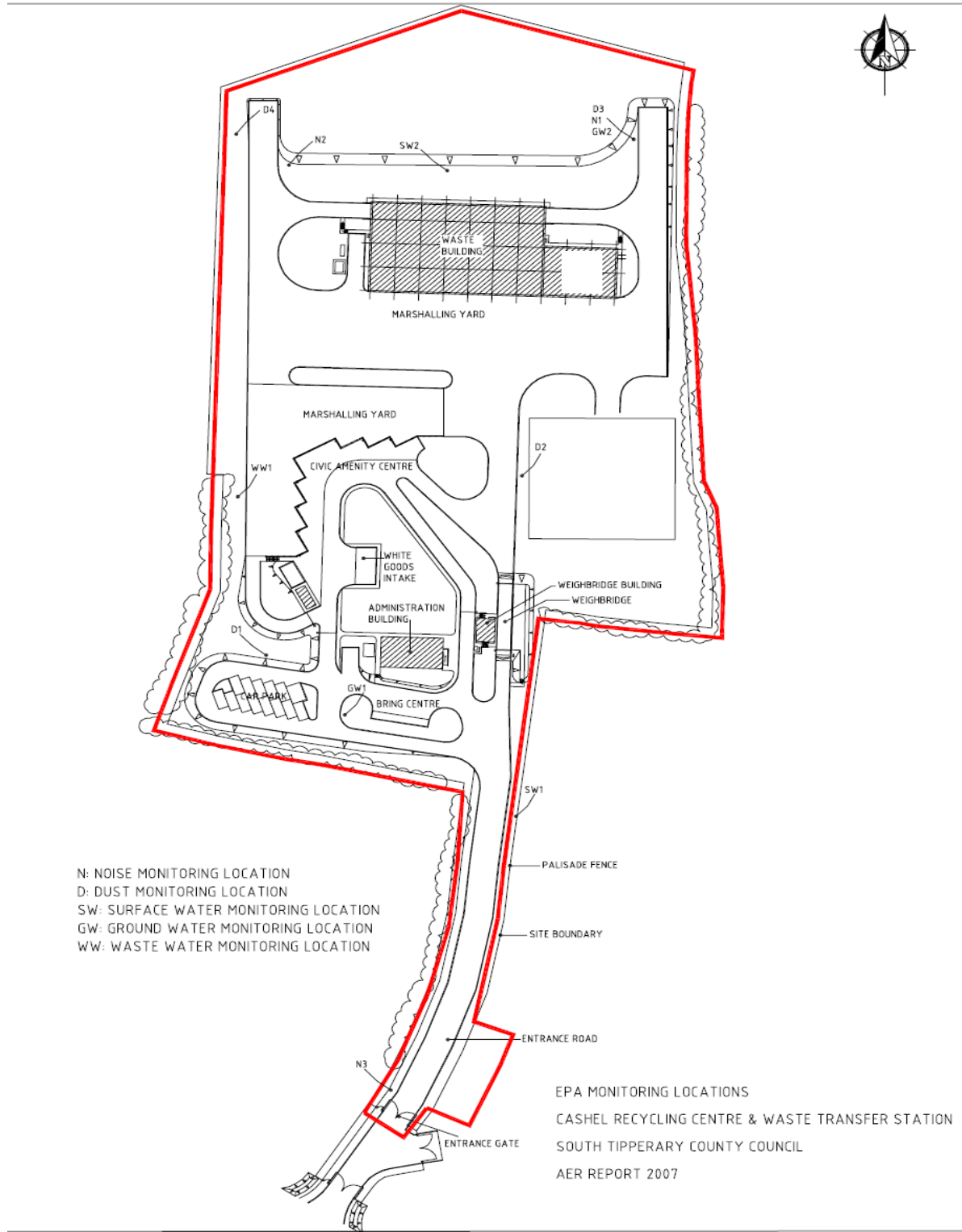


Figure 3.1: Monitoring Locations

3.2 Noise Monitoring

Condition 9 and Schedule D.3.1 of the licence require the licensee to conduct annual monitoring on noise emissions. A full noise survey was carried out on the 16th August 2011. A summary of the results can be seen in Table 3.2 below. A full copy of the results of these tests is included in Appendix 1.

Table 3.2 Noise Monitoring Results Summary

Monitoring Point	L(A)_{EQ}	Comments
N1	52.4	This location is at the entrance to the facility. Children playing next door reaching 55db at times. Local road traffic reaches up to 60db.
N2	47.9	One JCB is operating at times reaching up to 52db.
N3	54.4	This location is close to the transfer station where activity from trucks and filling machine is audible up to 65db.

3.3 Surface water Monitoring

Condition 9 and Schedule D.4 of the licence require the licensee to conduct surface water monitoring at points prior to discharge to soak away at locations to be agreed with the Agency on a quarterly basis. The results can be seen in Table 3.3 and Table 3.4 below. All the results are very low.

Table 3.3 SW1 Surface Water Monitoring Results

Surface Water 1	Emission Limit	Q1 2011	Q2 2011	Q3 2011	Q4 2011	Median
BOD (mg/l)	10	No Discharge	7.21	7.00	7.62	7.21
pH	6.0 – 9.0	N/A	N/A	0.85	2.82	1.835
S.Solids (mg/l)	25	N/A	24	3	18	18
Mineral Oil (mg/l)	5	N/A	N/a	37	0.08	18.54

Table 3.4 SW2 Surface Water Monitoring Results

Surface Water 2	Emission Limit	Q1 2011	Q2 2011	Q3 2011	Q4 2011	Median
BOD (mg/l)	10	No Discharge	N/a	N/a	N/a	
pH	6.0 – 9.0	N/A	N/a	N/a	N/a	
S.Solids (mg/l)	25	N/A	N/a	N/a	N/a	
Mineral Oil (mg/l)	5	N/A	N/a	N/a	N/a	

3.4 Wastewater Monitoring

Condition 9 and Schedule D.5 of the licence require the licensee to conduct waste water monitoring at a point prior to discharge to sewer at a location to be agreed with the Agency on a quarterly basis. The results can be seen in Table 3.5 below.

Table 3.5 Waste Water Monitoring Results

Wastewater	Emission Limit	Q1 2011	Q2 2011	Q3 2011	Q4 2011	Median
pH	6.0 - 10.0	7.28	7.55	7.09	7.62	7.28
Temperature (C)	25	8.1	n/a	17	8.7	8.7
BOD (mg/l)	500	71.3	24.1	25	4.8	24.55
Suspended Solids (mg/l)	500	82	14	32	18	25
Fats, Oils, Grease (mg/l)	100	<4	n/a	<4	<4	<4
Ammoniacial Nitrogen (mg/l)	50	37	23.7	18.4		23.7

3.5 Groundwater Monitoring

Condition 9 and Schedule D.6 of the licence require the licensee to conduct groundwater monitoring at two groundwater wells located onsite on a quarterly basis. The results can be seen in Table 3.6 and Table 3.7 below.

Table 3.6 GW1 Groundwater Monitoring Results

Ground Water 1	Emission Limit	Q1 2011	Q2 2011	Q3 2011	Q4 2011	
						Median
Visual Inspection/Odour	No abnormal	No Odour Detected	No Odour Detected	No Odour Detected	No Odour Detected	
Groundwater Level (mts)		Nm	Nm	Nm	7.9m	
Conductivity (us/cm)	1500	1000	1075	n\	1064	1064
pH	6.0 – 9.0	7.35	7.23	7.05	7.57	7.29
Temperature (C)	25	9.9	N\	N\	10.4	10.15
Mineral Oil (mg/l)	5	<0.01	n\	n\	<0.01	0.01

Table 3.7 GW2 Groundwater Monitoring Results

Ground Water 2	Emission Limit	Q1 2011	Q2 2011	Q3 2011	Q4 2011	
						Median
Visual Inspection/Odour	No abnormal	No Odour detected	No Odour detected	N\	No Odour detected	
Groundwater Level (mts)		Nm	Nm	N\	4.95	
Conductivity (us/cm)	1500	615	615	N\	644	615
pH	6.0 – 9.0	7.17	7.55	N\	7.4	7.4
Temperature (C)	25	10.2	n\	N\	9.8	10.0
Mineral Oil (mg/l)	5	<0.01	n\	N\	<0.01	0.01

3.6 Tank and pipeline Testing

Bund Tests Table 3.8 and 3.9

Cashel Recycling Centre & Waste Transfer Station			
CONCRETE BUND INSPECTION & TEST			
Bund No.1 Waste Oil Bund			
Contractor:	South Tipperary Co.Co.		
Date:	14 th and 15 th January 2010		
Drawing Reference: (incl revision)	2003-024-03-035 Rev 0		
Location:	Civic Amenity Area		
Dimensions:	5.5m x 2.6m x 0.5m deep with 300mm sq sump 300mm deep		
Concrete Mix:	C35N20	Reinforcement:	T8 & T12
Date of Test:	January 2010	Weather:	Dry
<p>1.4. Bund Inspection:</p> <p>The bund was visually inspected and it was found that there was no sign of damage or deterioration. The bund was clean and clear of debris.</p> <p>There were no defects noted at the time of testing.</p>			
<p>Bund Test:</p> <p>The test was carried out in accordance with CIRIA Report 163 Construction of Bunds for Oil Storage Tanks Section 5.5.2.</p> <p>No drop in water level was noted at the end of the test period, indicating the bund was found to be watertight.</p>			
Signed:	<hr style="width: 20%; margin: 0 auto;"/>		
Dated:	<p style="text-align: center;"><i>Anne Peters Executive Engineer</i></p> <p style="text-align: center;"><i>15/01/2010</i></p>		

Cashel Recycling Centre & Waste Transfer Station

CONCRETE BUND INSPECTION & TEST

**Bund No.2
Diesel Tank Bund**

Contractor:	South Tipperary Co.Co		
Date:	14 th and 15 th January 2010		
Drawing Reference: (incl revision)	2003-024-03-034 Rev 0		
Location:	Waste Transfer Station Area		
Dimensions:	3.5m x 2.5m x 0.5m deep with 300mm sq sump 300mm deep		
Concrete Mix:	C35N20	Reinforcement:	T8 & T12
Date of Test:	January 2010	Weather:	Dry

1.5. Bund Inspection:

The bund was visually inspected and it was found that there was no sign of damage or deterioration.

The bund was clean and clear of debris.

There were no defects noted at the time of testing.

Bund Test:

The test was carried out in accordance with CIRIA Report 163 Construction of Bunds for Oil Storage Tanks Section 5.5.2.

No drop in water level was noted at the end of the test period, indicating the bund was found to be watertight.

Signed:	 <hr/>
Dated:	<i>Anne Peters Executive Engineer</i> <i>15/01/2010</i>

3.7 Resource and Energy Consumption

Electricity and diesel usage are shown in Tables 4.0 and 4.1 below.

Table 4.0 Electricity Use 2011

Date	Kwh	
Mar-11	14350	Mar-11
Apr-11	5400	Apr-11
Jul-11	12200	Jul-11
Aug-11	3300	Aug-11
Sep-11	3450	Sep-11
Jan-12	4617	Jan-12

Table 4.1 Diesel Usage 2011(ltrs)

Jan 11	400
Feb 11	505.45
Mar 11	499.12
Apr 11	514.09
May 11	715.87
June 11	686.56
July 11	455.91
Aug 11	546.39
Sept 11	429.21
Oct 11	376.21
Nov 11	677.34
Dec 11	437.5
Average p\month	520.3

4 SITE DEVELOPMENT / INFRASTRUCTURAL WORKS

Site development works initiated or completed during the report period are described hereunder.

4.1

It is planned to install a building for WEEE and a concrete slab to facilitate the bulking up of items in 2012

5 ENVIRONMENTAL INCIDENTS AND COMPLAINTS

5.1 Incidents Summary

Condition 12.3 of the waste licence requires that the licensee shall make written records of environmental incidents. No incidents were recorded during this reporting period

5.2. Complaints Summary

There were no complaints received during the reporting period.

5.3 Review of Nuisance Controls.

All nuisance control systems are monitored weekly to ensure that they are working effectively. The findings of these inspections are recorded on Nuisance Check Sheets, which are held on record in the facility. Environmental nuisances include:

1. Litter
2. Vermin
3. Dust

5.3.1 Litter Control

There are regular checks for litter onsite.

5.3.2 Vermin & Insects Control

The initial vermin control system on site is prompt waste disposal and reducing access to material. Additional vermin control work, is contracted to Pest Patrol (Pest control and Environmental Services). They use bait boxes the following systems to control vermin on site.

Pest Patrol carries out eight to ten site inspections annually to ensure that the site is free of vermin. Waller's Lot is not considered to have a vermin problem. The findings of these inspections are recorded and are held on record in the facility.

5.3.3 Dust Control

Dust control on-site is controlled using the following systems:

1. Reduced vehicle speed on site to control dust rising
2. Roads sprayed with water to keep dust down, done in dry weather

No complaints were received at the as regards dust raised by operational activities.

6 ENVIRONMENTAL MANAGEMENT SYSTEM

6.1 SUMMARY OF PROCEDURES ASSOCIATED WITH THE FACILITY

Documented procedures governing the operation of the facility are outlined below. Complete copies of all procedures are included in the facility's EMS.

Procedure Title Summary	Emergency Response Procedure The purpose of this procedure is to propose appropriate actions to ensure the safety & health of all site personnel and visitors, minimise damage to property and risk to the environment This procedure describes the action to be used in the event of an emergency where an emergency can be described as but is not limited to any of the following incidences: <ul style="list-style-type: none">• significant spillage• major fire/explosion• flooding / structural damage• major injury or dangerous occurrence
Revision Date & No.	April 2010 Rev. 3
Procedure Title Summary	Corrective Action Procedure To ensure that the appropriate corrective action is taken in the event of an incident on-site, where an incident can be defined as: <ul style="list-style-type: none">• an emergency• any emission which does not comply with the requirements of this licence (W0200-01)• any trigger level specified in this licence which is attained or exceeded• any indication that environmental pollution has, or may have, taken place
Revision Date & No.	April 2010 Rev. 2
Procedure Title Summary	Awareness and Training Procedure To ensure that training needs are identified and appropriate training is provided for facility personnel.
Revision Date & No.	February 2007 Rev. 1
Procedure Title Summary	On-Site Communication Procedure To ensure that members of the public can access, at the facility, information on the sites environmental performance, in compliance with Condition 2.4 of the waste licence
Revision Date & No.	April 2010 Rev. 2
Procedure Title Summary	External Communication Procedure To ensure that all communications regarding the facility are correctly directed to be addressed by the correct personnel.
Revision Date & No.	April 2010 Rev. 3

Procedure Title **Complaints Procedure**
Summary To ensure that all complaints that activities are creating a nuisance are recorded and dealt with, in compliance with Condition 11.4 of the waste licence

Revision Date & No. July 2007 Rev. 2

Procedure Title **Waste Characterisation and Testing Procedure**
Summary To provide a system of checking to ensure that waste collected at Waller's Lot complies with Schedule A of the Waste Licence.

Revision Date & No. July 2009 Rev. 3

Procedure Title **Waste Acceptance Procedure**
Summary To formalise the system of receiving and recording the delivery and acceptance of waste.

Revision Date & No. November 2007 Rev. 2

Procedure Title **Environmental Monitoring Procedure**
Summary To formalise the system of environmental monitoring on-site for:

- Surfacewater
- Groundwater
- Wastewater
- Dust
- Noise

Revision Date & No. April 2009 Rev. 3

Procedure Title **Site Inspection Procedure**
Summary To ensure that the site is inspected on a weekly basis to ensure that there is nothing of note occurring on site that is being missed.

Revision Date & No. February 2007 Rev. 1

Procedure Title **Nuisance Inspection Procedure**
Summary To ensure that the site is inspected on a weekly basis to ensure that there is no nuisance being caused by dust, litter and odours.

Revision Date & No. February 2007 Rev. 1

Procedure Title **Self –compacting Trailer Operator Procedure**
Summary Safe operation of the waste compacting trailer.

Revision Date & No. January 2008 Rev. 0

Procedure Title **Waste Conveyor Operation Procedure**
Summary To ensure the safe operation of the waste conveyor

Revision Date & No. January 2011 Rev. 1

Procedure Title **Waste Handling Procedure**
Summary To ensure up to ensure that waste is handled in a safe manner

Revision Date & No. January 2011 Rev. 1

Procedure Title **Compactor Skip Procedure**

Summary To ensure up to ensure that all skips are operated in a safe manner
Revision Date & No. November 2010 Rev. 0

Procedure Title **Telescopic handler Procedure**
Summary To ensure that the Telescopic Handler is operated and maintained in a safe manner.
Revision Date & No. November 2010 Rev. 0

Procedure Title **Vehicle Movement Procedure**
Summary Ensure that all vehicles using the site enter, travel and operate safely
Revision Date & No. November 2007 Rev. 2

Procedure Title **Site Inspection Procedure**
Summary To ensure that the site is inspected on a weekly basis to ensure that there is nothing of note occurring on site that is being missed.
Revision Date & No. February 2007 Rev. 1

Procedure Title **Nuisance Inspection Procedure**
Summary To ensure that the site is inspected on a weekly basis to ensure that there is no nuisance being caused by dust, litter and odours.
Revision Date & No. February 2007 Rev. 1

6.2 OBJECTIVES AND TARTGETS

Objective 1	Continue Advertising campaign	
Target	I	
	Tasks	Timeframe
	1. Advertise facilities in local paper.Ongoing	March 2012
Responsibility	Facility manager & PAO	
Resources\Comments		

Objective 2	Review all aspects of Health and Safety in relation to the facility	
Target	To carry out a review in relation to all aspects of health and safety concerning this facility	
	Tasks	Timeframe
	1. Review Site specific safety statement	July 2014
	2. Carry out any recommendations for reduction of risk outlined in Safety Statement.	July 2014
Responsibility	Facility manager & RE	
Resources\Comments		

Objective 3	Improve energy efficiency on site	
Target	In compliance with Condition 8.1 STCC will carry out an audit of the energy efficiency of the site to identify opportunities for energy use reduction and better resource use.	
	Tasks	Timeframe
	1. Carry out energy audit in accordance with guidance published by the Agency – ‘Guidance note on energy efficiency auditing’.	March 2013
	2. Implement audit findings and review. Ongoing	January 2013
Responsibility	Facility manager & E.E	
Resources\Comments	Audit Completed	

Objective 4	Improve site security	
Target		
	Tasks	Timeframe
	1. Maintain fence	Ongoing
	2. Reduce scavengers / trespassers	
Responsibility	Facility manager	
Resources\Comments	Worked with local Gardai / New Security cameras fitted	

Objective 5	Implementation of a management and reporting system	
Target	In compliance with Condition 2.4 STCC will maintain a system whereby all environmental information is available to members of the public during opening hours	
	Tasks	Timeframe
	1. Review and update the EMS 2011	March 2012
	2. Review and update the schedule of objectives and targets 2012	March 2012
	3. Implement reviewed EMP	
	4. Review and update the Corrective Action Procedure	March 2012
	5. Review and update the Awareness and Training Programme See Chapter 6	
	6. Prepare an AER	March 2012
Responsibility	Facility Manager	
Resources\Comments	Completed	

Objective 6	Expand the range of products accepted for recycling	
Target	Expand the range of products accepted	
	Tasks	Timeframe
	1. Investigate other materials	Ongoing
	2. Hard Plastics	December 2012
Responsibility	Facility Manager	
Resources\Comments		

Objective 7	Site Inspections	
Target	To ensure that all appropriate site inspections are carried out and documented as per the Licence requirements	
	Tasks	Timeframe
	1. Training of Staff in Inspection procedures	Ongoing
	2. Maintaining Inspection records	Ongoing
Responsibility	Facility manager	
Resources\Comments	Ongoing	

Objective 8	Staff Training	
Target	To ensure that all site personnel are appropriately qualified for the position they hold on site.	
	Tasks	Timeframe
	1. Implement regular in-house training for on-site personnel including First Aid and Spill Kit Training	Ongoing
Responsibility	Facility manager	
Resources\Comments	Ongoing	

Objective 9	Environmental Education	
Target	To encourage all interested parties to visit the site and learn about recycling	
	Tasks	Timeframe
	1. Use building to run courses regarding all forms of recycling	Ongoing
	2. Encourage school visits	Ongoing
Responsibility	Facility manager, Environmental Engineer, Public Awareness Officer.	
Resources\Comments	Ongoing	

Objective 10	Reduction in Resource usage	
Target	To reduce usage of water and power on site	
	Tasks	Timeframe
	1. Carry out Energy audit	March 2013
	2. Implement recommendations of energy audit	Ongoing
Responsibility	Facility manager	
Resources\Comments	Regular monitoring of site water meter .	

Objective 11	Site Development	
Target	To Increase the Size and Scope of the Site.	
	Tasks	Timeframe
	1. To Fully concrete bulking area install new loading bays and build a warehouse for housing all WEE products.	March 2013
Responsibility	Facility manager\Site Engineer	
Resources\Comments		

7 FACILITY RESOURCES

7.1 Management and Staff Structure

There are six operational staff at the site: a Facility Manager, responsible for the day-to-day site activities, a deputy manager, environmental chemist, a weighbridge operator and two general operatives.

A staffing structure for site operations is presented in Figure 7.1. Their qualifications and responsibilities are outlined below:

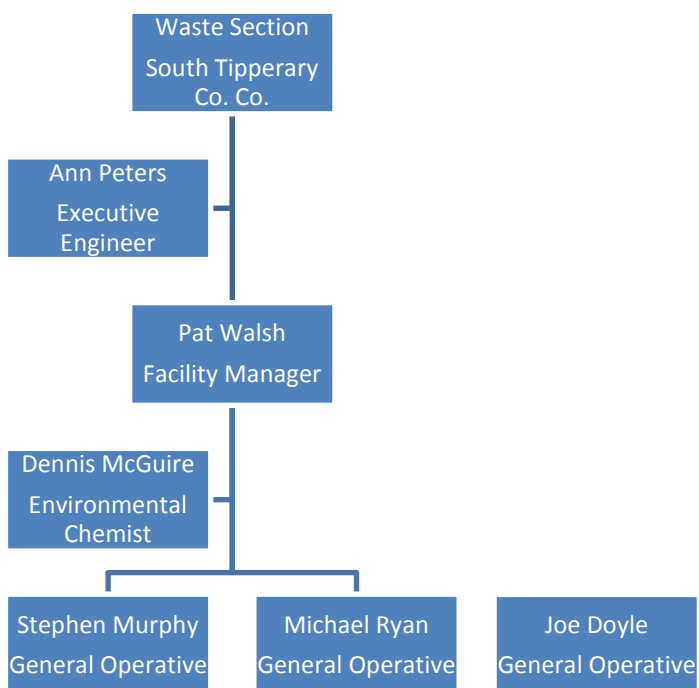


Figure 7.1: Management Structure

Facility Manager:	<i>Pat Walsh</i>
Qualifications:	FAS Waste Management Training Course FAS SafePass Course
Responsibilities:	Day-to-Day Operations Waste Acceptance Environmental Protection

Executive Engineer:	<i>Anne Peters</i>
Qualifications:	B.E. (Chem.) FAS Waste Management Training Course

	FAS SafePass Course
Responsibilities:	Oversee infrastructure development and management on site

Deputy Manager:	<i>Dennis McGuire</i>
Qualifications:	B.Sc.
Responsibilities:	Responsible for analytical analysis of monitoring on site

Deputy Manager:	<i>Pat O' Dwyer</i>
Qualifications:	FAS Waste Management Training Course FAS SafePass Course
Responsibilities:	Deputy for the Facility Manager, has the same responsibilities <ul style="list-style-type: none"> • Day-to-day operations • Waste acceptance • Environmental protection

General Operators	Michael Ryan
Qualifications:	FAS Waste Management Training Course In –house Training <ul style="list-style-type: none"> • Weighbridge operation • Telescopic handler • Safe Pass • Manual handling • Instruction on the implication of the waste licence on site staff
Responsibilities:	Weighing Waste Acceptance Records Cash Duty General house keeping

General Operators	Stephen Murphy and Joe Doyle
Qualifications:	In –house Training <ul style="list-style-type: none"> • Weighbridge operation • Telescopic handler • Safe Pass • Manual handling • Instruction on the implication of the waste licence on site staff
Responsibilities:	Weighing Waste Acceptance Records Cash Duty General house keeping

Staff will be present on site during operational hours to supervise the waste disposal, deal with any emergency that arises and to prevent unauthorised entry into the site. The Facility Manager, or appointed deputy, must be on site during opening hours.

The primary goal of all training is to ensure that there is awareness at all levels of:

- the importance of compliance with conditions of the licence
- the potential environmental effects of work activities

- individual roles and responsibilities in achieving compliance with the waste licence
- the environmental benefits of improved performance
- the Health, Safety & Welfare at Work Act.

7.1.1 Training of Personnel

It will be the responsibility of the Manager to ensure that all staff receives training in relevant areas/tasks, including:

- instruction and operation of the machinery
- operation of the weighbridge and computer system
- training for specific functions

The Manager shall also ensure that all staff receives general training, including:

- instruction in manual handling
- the use of fire extinguishers
- FAS SafePass Course
- First Aid training

It is also the responsibility of the Manager to ensure that site staff are aware of the terms of the waste licence at the facility and the responsibility of each staff member to maintain specific terms of the waste licence. It is the responsibility of the facility manager to ensure that each staff member is aware of his or her specific function.

The Health and Safety Officer makes regular visits to the site, to promote awareness of safety issues and to audit the site. Any suggested improvements are implemented as soon as possible.

7.1.2 Records for the Training and Awareness Programme

- A training records file is kept at the site office
- All relevant operational procedures and documentation relevant to the licence shall be kept at the facility office and updated regularly
- All staff shall be made aware of the existence of such documents.

7.2 Financial Provisions

The county council have the funds available to them to complete the aftercare and restoration of the site in the event of the site closure.

The aftercare and restoration plan was submitted to the Agency in attachment G.1 of the Waste Licence application.

Appendix I

TEST REPORT



Client: South Tipp County
Council
Facility Manager,
Cashel Recycling Centre,
Cashel,
Co. Tipperary

BHP Ref No.: 99763
Order No.:
Date Received: 16th August 2011
Date Tested: 16th August 2011
Test Specification: Noise Monitoring

BHP
New Road
Thomondgate
Limerick
Ireland
Tel +353 61 455399
Fax + 353 61 455447
E Mail bhpccem2@bhp.ie

FTAO: Louise Ryan

Item: Noise survey at noise sensitive locations at Cashel Recycling Centre located in Cashel, Co. Tipperary.

For and on behalf of BHP Ltd.

Pat O'Sullivan
Date Issued: 28th August 2011
Supplement to report No. N/A

Test results relate only to this item. This test report shall not be duplicated except in full and with the permission of the test laboratory

Contents

- 1.0 Scope
- 2.0 Survey Approach
- 3.0 Date of sampling
- 4.0 Results
 - 4.1 Noise levels
 - 4.2 1/3 Octave Frequency Analysis
- 5.0 Interpretation of results

Appendix: Site Map showing noise monitoring locations

1.0 Scope of survey

BHP was contracted by South Tipperary County Council to carry out environmental noise monitoring at Cashel Recycling Centre, which is located in Cashel, Co.

Tipperary.

This report deals with three noise-monitoring locations at the facility in Cashel for 2011.

2.0 Survey approach

A Cirrus 831A Type 1 sound level meter was used to monitor noise levels and to carryout $1/3$ octave frequency analysis.

30-minute daytime levels were measured at 3 nominated locations at the boundaries of the recycling centre. These locations were labelled as N1, N2 and N3 and are identified on the map included in Appendix A.

3.0 Date of sampling

Sampling was carried out on the 16th August 2011 for inclusion in the 2011 annual environmental report.

4.0 Results

4.1 Noise levels:

Levels are presented on the following pages.

Day-time Measurements – Cashel Recycling Centre- (16th August 2011)

Location	Sampling Interval	Duration (mins)	L_{AEQ} dB	L_{A10} dB	L_{A90} dB	Wind speed m/s	Sampling notes
NSL1	0831-0901hrs	30	52.4	55.3	46.9	0.1-2.0	This location is at the entrance to the facility. Children at playing next door reaching up to 55 dB at times. Local road traffic reaches up to 60 dB.
NSL2	1134-1204hrs	30	47.9	49.9	44.2	0.1-1.3	One JCB is operating at times reaching up to 52 dB.
NSL3	1239-1309hrs	30	54.4	59.0	45.0	0.1-1.0	The location is close to the shed where activity from trucks and filling machine is audible up to 65dB.

4.1 Broadband Analysis:

Broadband Result for N1:

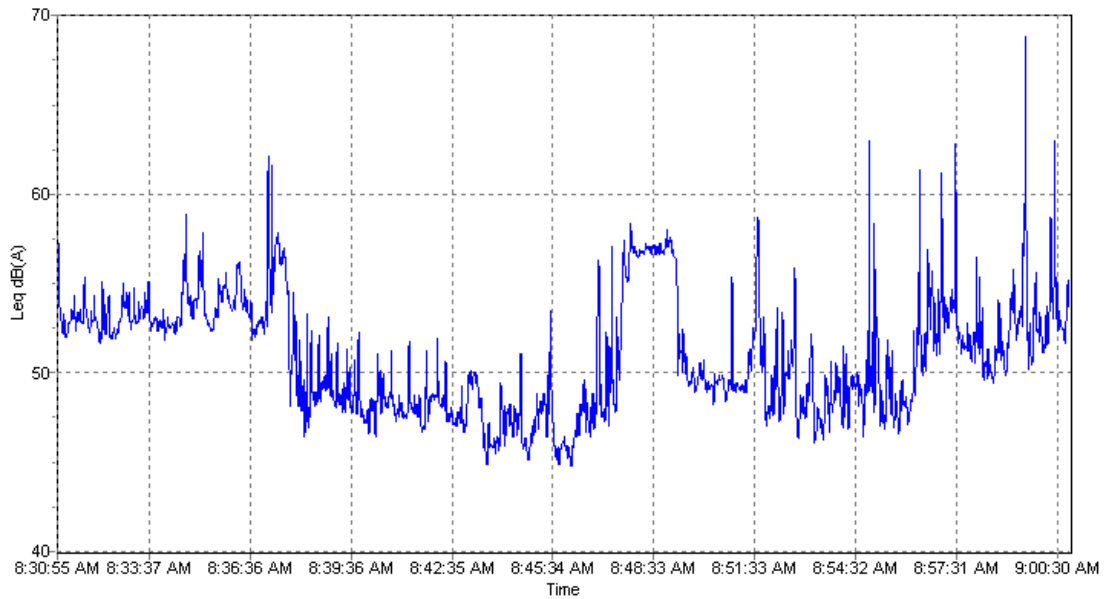


Fig 1: This presents the broadband monitoring at N1.

Broadband Result for N2:

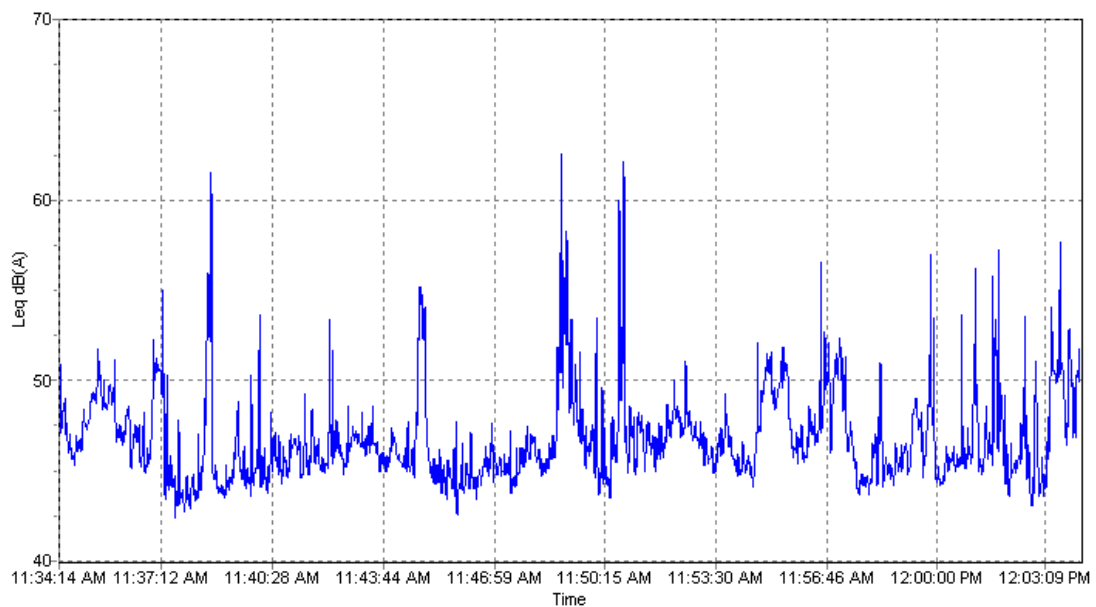


Fig 2: This presents the broadband monitoring at N2.

Broadband Result for N3:

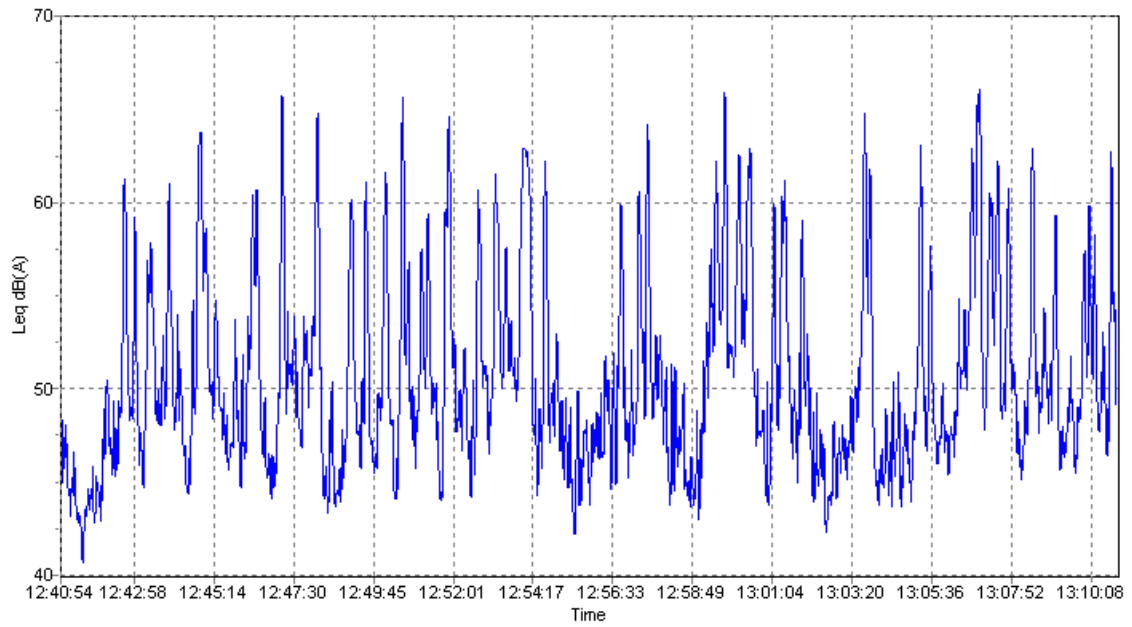


Fig 3: This presents the broadband monitoring at N3.

4.2 Frequency Analysis (1/3 Octave Band):

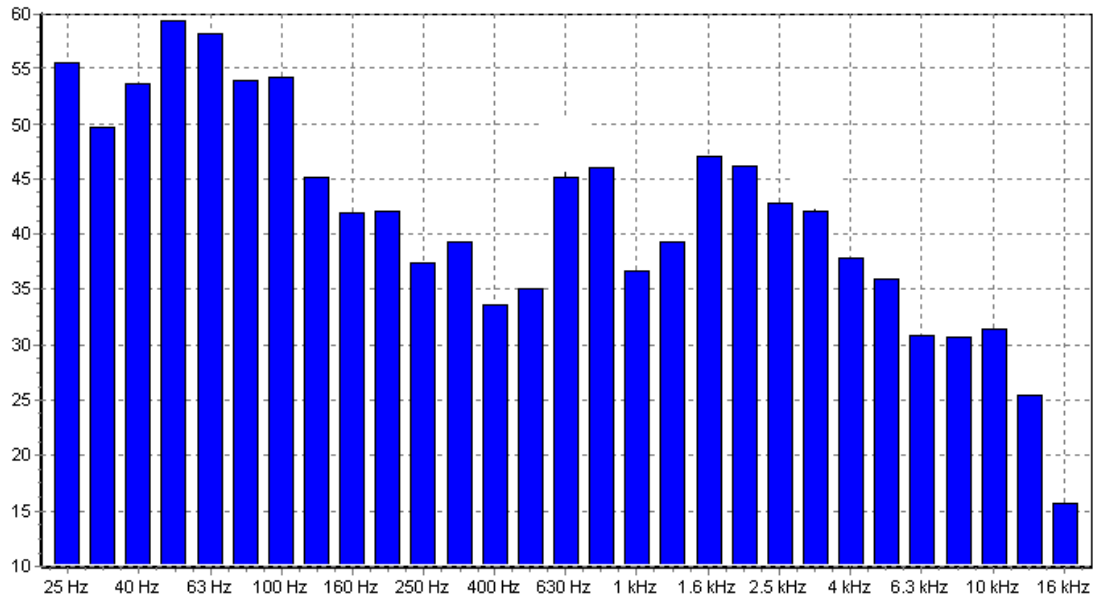


Fig 4: 1/3 Octave Band Analysis at N1.

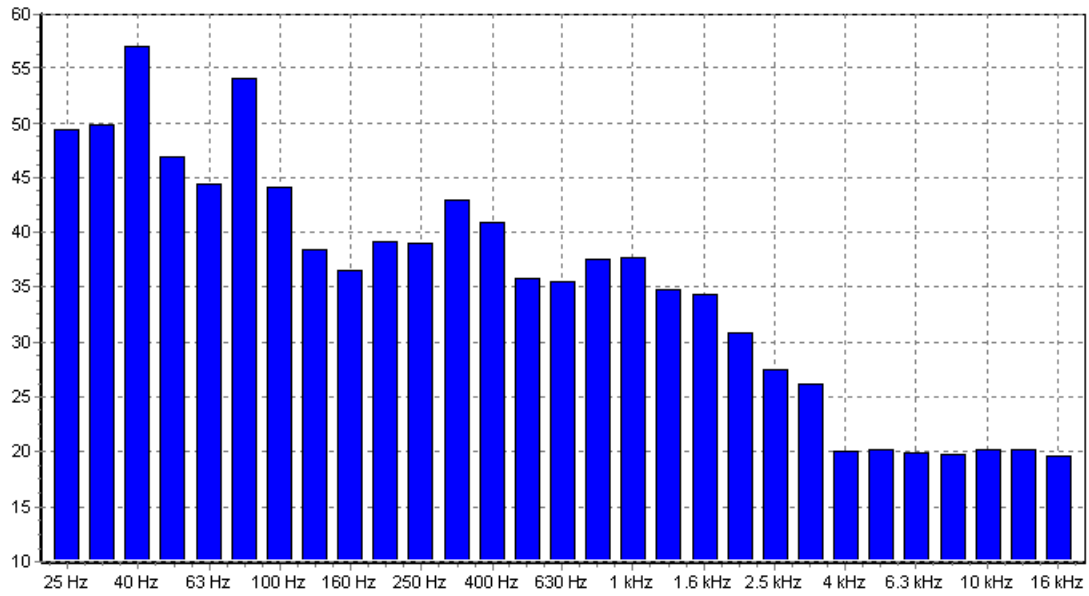


Fig 5: 1/3 Octave Band Analysis at N2.

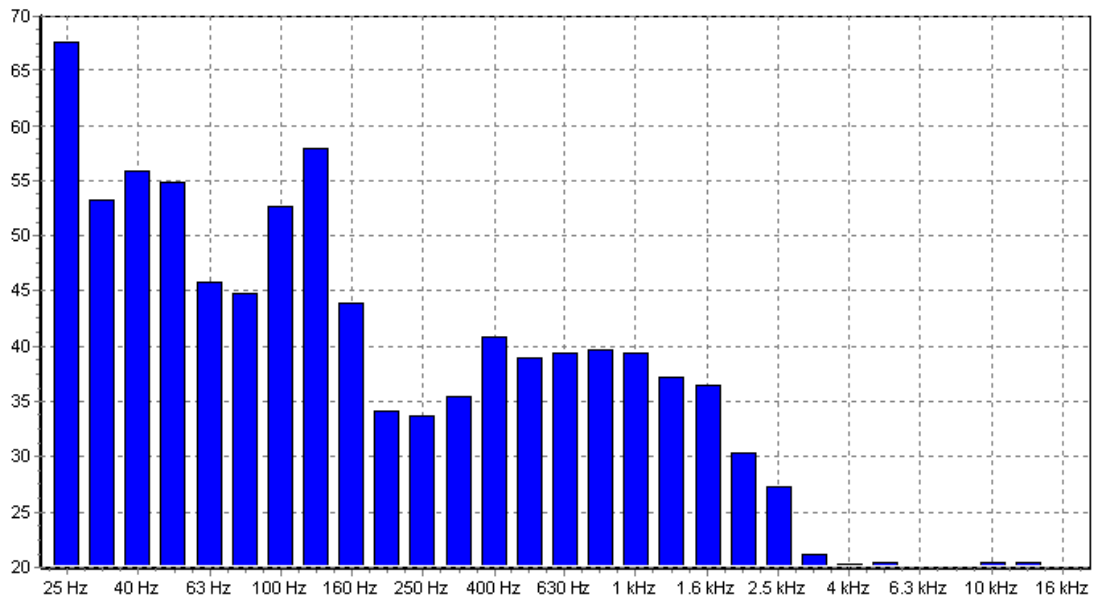


Fig 6: 1/3 Octave Band Analysis at N3.

5.0 Interpretation of results

5.1 Noise levels;

5.1.1 Day-time levels :

The noise limits for Cashel Recycling Centre, Cashel, Co.Tipperary at noise sensitive locations, are as follows:

Daytime Limit $L_{Aeq} < 55\text{dB}$

5.1.1 Day-time levels :

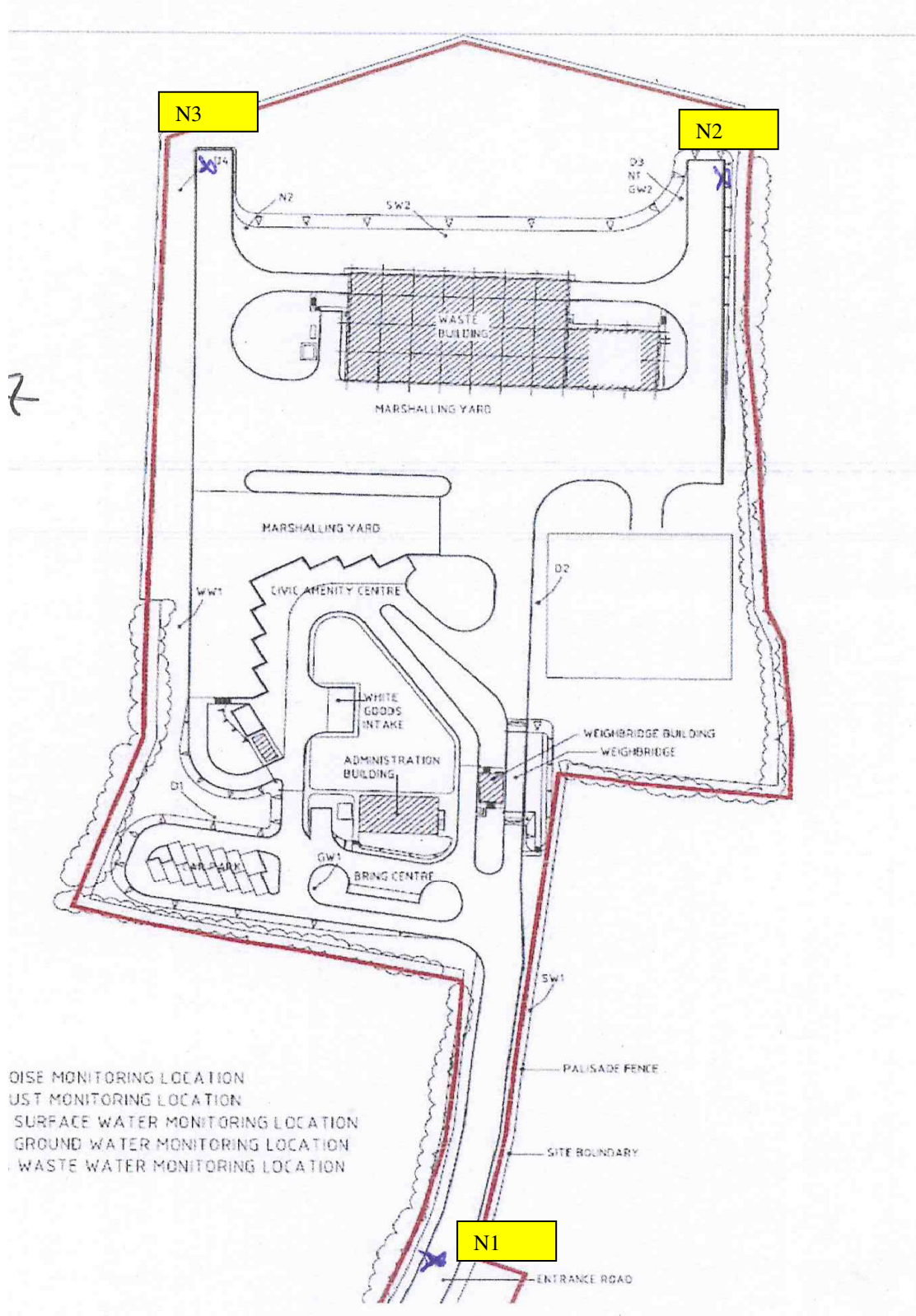
As can be seen in section 4.1, noise levels are less than the daytime limit at all locations.

6.0 Conclusions

- The noise **contribution** made by the recycling centre does not exceed the daytime limit of 55dB at the noise sensitive locations. The noise levels encountered at all locations outside of that at the entrance are more reflective of occupational noise and reflect the close internal workings of the facility.
- There was no evidence of a tonal or impulsive component to the noise attributable to the site operation.

Appendix

Map showing centre noise monitoring locations



Appendix II



[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.13

REFERENCE YEAR	2011
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1. FACILITY IDENTIFICATION

Parent Company Name	South Tipperary County Council
Facility Name	Recycling Centre and Waste Transfer Station
PRTR Identification Number	W0200
Licence Number	W0200-01

Waste or IPPC Classes of Activity

No.	class_name
3.12	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.13	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.
4.11	Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.
4.13	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.
4.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
Address 1	Waller's Lot
Address 2	Cashel
Address 3	Co Tipperary
Address 4	
	Tipperary
Country	Ireland
Coordinates of Location	-7.8745 52.5126
River Basin District	IESE
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Pat Walsh
AER Returns Contact Email Address	pat.walsh@southtippcoco.ie
AER Returns Contact Position	facility Manager
AER Returns Contact Telephone Number	062 64152
AER Returns Contact Mobile Phone Number	0872318627
AER Returns Contact Fax Number	06264157
Production Volume	0.0
Production Volume Units	
Number of Installations	1
Number of Operating Hours in Year	2236
Number of Employees	4
User Feedback/Comments	
Web Address	www.southtippcoco.ie

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
50.1	General
50.1	General

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

Is it applicable?	
Have you been granted an exemption ?	
If applicable which activity class applies (as per Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being used ?	

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR#: W0200 | Facility Name : Recycling Centre and Waste Transfer Station | Filename : w0200_2011 to be pdf.xlsx | Return Year : 2011 |

16/04/2012 11:40

Please enter all quantities on this sheet in Tonnes

26

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 : 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)
						Haz Waste: Name and Licence/Permit No of Recover/Disposer			Non Haz Waste: Address of Recover/Disposer					
Within the Country	16 05 04	Yes	0.32	gases in pressure containers (including halons) containing dangerous substances	R13	Weighed		Offsite in Ireland	Enva,W0184-01		.....,Ireland		Geocycle,38.152/BP,Feneffe,.....,Belgium	.....,Belgium
Within the Country	16 06 01	Yes	0.8	lead batteries	R13	Weighed		Offsite in Ireland	KMK,W0113-04		.....,Ireland			
Within the Country	15 01 04	No	1.68	metallic packaging	R13	Weighed		Offsite in Ireland	green dragon,CK46/03		.....,Ireland			
Within the Country	15 01 01	No	17.24	paper and cardboard packaging	R13	Weighed		Offsite in Ireland	clonmel Waste Disposal,WP/008-02		.....,Ireland			
Within the Country	17 01 07	No	108.6	mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	R13	Weighed		Offsite in Ireland	clonmel Waste Disposal,WP/008-02		.....,Ireland			
Within the Country	20 01 40	No	1.64	metals	R13	Weighed		Offsite in Ireland	Rehab Recycling,08/04 (Reg 635)		.....,Ireland			
Within the Country	15 01 06	No	2618.5	mixed packaging	R13	Weighed		Offsite in Ireland	Dungarvan MRF,W0189-01		.....,Ireland			
Within the Country	16 06 02	Yes	0.66	Ni-Cd batteries	R13	Weighed		Offsite in Ireland	KMK,W0113-04		.....,Ireland			
Within the Country	15 01 02	No	115.08	plastic packaging	R13	Weighed		Offsite in Ireland	Walker Recycling Services,WMP044B		.....,Ireland			
Within the Country	20 01 21	Yes	0.64	fluorescent tubes and other mercury-containing waste	R13	Weighed		Offsite in Ireland	KMK,W0113-04		.....,Ireland			
Within the Country	20 01 02	No	32.9	glass	R13	Weighed		Offsite in Ireland	Rehab Recycling,08/04 (Reg 635)		.....,Ireland			
Within the Country	20 01 27	Yes	1.22	paint, inks, adhesives and resins containing dangerous substances	R13	Weighed		Offsite in Ireland	Enva,W0184-01		.....,Ireland		Geocycle,38.152/BP,Feneffe,.....,Belgium	.....,Belgium
Within the Country	20 03 07	No	22.52	bulky waste	R13	Weighed		Offsite in Ireland	Mr.Binman,WFP-TS-10-0006-01		.....,Ireland			
Within the Country	20 01 40	No	84.9	metals	R13	Weighed		Offsite in Ireland	Cork Metal,CK(S)204/05(M)		.....,Ireland			
Within the Country	20 01 01	No	34.7	paper and cardboard	R13	Weighed		Offsite in Ireland	clonmel Waste Disposal,WP/008-02		.....,Ireland			
Within the Country	17 08 02	No	31.44	gypsum-based construction materials other than those mentioned in 17 08 01	R13	Weighed		Offsite in Ireland	Greenstar,WO-103-81		.....,Ireland			
Within the Country	17 02 02	No	10.38	glass	R13	Weighed		Offsite in Ireland	Greenstar,WO-103-81		.....,Ireland			
To Other Countries	20 01 10	No	27.94	clothes	R13	Weighed		Offsite in Ireland	Cookstown Recycling,Charity		.....,United Kingdom			
Within the Country	20 01 39	No	10.34	plastics	R13	Weighed		Offsite in Ireland	Polymer Recovery,WFP-LS-09-0007-02		.....,Ireland			
Within the Country	20 03 01	No	8648.5	mixed municipal waste	D13	Weighed		Offsite in Ireland	Donohill Landfill,W0074-03		.....,Ireland			
Within the Country	20 01 36	No	121.26	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R13	Weighed		Offsite in Ireland	KMK,W0113-04		.....,Ireland			
Within the Country	13 08 99	Yes	2.08	wastes not otherwise specified	R13	Weighed		Offsite in Ireland	Enva,W0184-01		.....,Ireland			
Within the Country	20 01 38	No	264.8	wood other than that mentioned in 20 01 37	R13	Weighed		Offsite in Ireland	Donohill Landfill,W0074-03		.....,Ireland			

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

[Link to previous years waste data](#)

[Link to previous years waste summary data & percentage change](#)