Annual Environmental Report

2014

Reporting Year: 1st January to 31st December 2014

Licence Register No.: W0257-01

Address: Churchfield Industrial Estate

John F. Connolly Road,

Cork

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1 Introduction

The following is the Annual Environmental Report for Country Clean Recycling. This report has been prepared in compliance with condition 11.10, of the waste licence.
The waste licence W0257-01 was granted by the Environmental Protection Agency to Country Clean Recycling Ltd. on the 30th January 2014.

2 Company details

Reporting Year: 1st January to 31st December 2014**

Licence Register No.: W0257-01

Name of Site: Country Clean Recycling Ltd.

Location of Site: Churchfield Industrial Estate,
John F. Connolly Road,
Cork

NACE Code: CRO Number: 371457

Classes of Activity: D13, D14, D15, R3, R4, R5, R11, R12, R13

National Grid Reference: 51.91351,-8.49255

*(** Waste Tonnages Reported for the 12 Month Period of Jan – Dec 2014)*

2.1 Site Location and Layout

The site is located in the Churchfield Industrial Estate, John F. Connolly Road, County Cork. The facility is comprised of one waste transfer building, weighbridge site offices, mixed municipal waste storage area, timber shredding area, paved yard areas and an ESB substation.

3 Facility Operations

3.1 Description of activities

Country Clean Recycling Ltd is a waste transfer station which accepts up to 100,000 tonnes of waste per year as per EPA waste licence. This includes mixed municipal waste, mixed dry recyclables, construction and demolition material & household and commercial waste materials. The limits for each waste category are indicated in the table below. Hazardous waste is not accepted in the facility.

Table 1 Waste acceptance limits

Waste Type		Maximum (Tonnes Per Annum)
Non-Hazardous Wastes	Household & Commercial Waste	10,000
	Mixed Dry Recyclable Waste	22,000
	Construction & Demolition Waste	13,000
	Mixed Municipal Waste	53,960
	Separately Collected Bio-waste	1,040
Total		**100,000**

Country Clean Recycling Ltd carries out the following disposal and recovery activities as per waste licence conditions;

Table 2 Disposal activities

Class	Description
Class D 13	Blending or mixing prior to submission to any of the operations numbered D 1 to D 12.
Class D 14	Repackaging prior to submission to any of the operations numbered D 1 and D 13.
Class D 15	Storage pending any of the operations numbered D 1 to D 14.

Table 3 Recovery Activities

Class	Description
Class R 3	Recycling/reclamation of organic substances which are not used as solvents, which includes gasification and pyrolisis using the components as chemicals.
Class R 4	Recycling/reclamation of metals and metal compounds.
Class R 5	Recycling/reclamation of other inorganic materials, which includes soil cleaning resulting in recovery of the soil and recycling of inorganic construction materials.
Class R 11	Use of waste obtained from any of the operations numbered R 1 to R 10.
Class R 12	Exchange of waste for submission to any of the operations numbered R 1 to R 11.
Class R 13	Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced).

3.2 Acceptance Procedure on-site

Waste is only accepted at the facility from local authority waste collection or transport vehicles or holders of waste permits, unless exempted under the Waste Management Act, 1996, as amended. Copies of these waste collection permits are maintained at the facility as per condition 8.2.1 of the waste licence.

Country Clean Recycling CCR-EP005 Waste Profiling Procedure & Waste Profile & Characterisation Sheet CCR-ER010 shall be used to profile and characterise waste from new customers.

Waste arriving at the facility shall have its documentation checked at the weighbridge and verified on site to confirm that it is acceptable.

Subject to verification each load will be weighed, documented and directed inside the waste transfer building. Each load of waste arriving at the waste transfer building shall be inspected upon tipping within this building. Only after such inspections shall the waste is processed for recovery or disposal. When waste has been characterised, individual customers will be assigned a EWC code. Country Clean Recycling shall maintain a record for each load of waste arriving at, or leaving the facility. In compliance with Condition 11.11 Country Clean Recycling shall record the following;

- the date and time;
- the name of the carrier (including if appropriate, the waste carrier registration details);
- the vehicle registration number;
- the trailer, skip or other container unique identification number (where relevant);
- the name of the producer(s)/collector(s) of the waste as appropriate;
- the name of the waste facility (if appropriate) from which the load originated including the waste licence or waste permit register number;
- the destination of the waste, if appropriate (including the facility name and waste licence/permit number as appropriate);
- a description of the waste including the associated EWC/HWL codes;
- the quantity of waste, recorded in tonnes;
- details of the treatment(s) to which the waste has been subjected;
- the classification and coding of the waste, including whether MSW or otherwise;
- whether the waste is for disposal or recovery, and if recovery, for what purpose;
- the name of the person checking the load; and where loads of waste are removed or rejected, details of the date of occurrence, the types of waste and the facility to which they were removed.

For a full description of Country Clean Recycling Ltd. waste acceptance procedure, see appendix A.

3.3 Processes on site

Waste accepted & dispatched at the facility is weighed on the weighbridge. Waste accepted is then brought into the main waste transfer building for

segregating into different waste streams. Different waste types have designated bays within the waste transfer building.
Mixed municipal waste (MMW), which is received from both household and commercial sources, is stored within a designated bay before transportation off-site. MMW is baled before transportation for recovery. Any effluent from MMW is conveyed to a holding tank and subsequently flows to an oil interceptor and then to the City Council Sewer.
Mixed dry recyclables are sorted and stored in designated storage bays before transportation off-site.
The picking line is used to recover ferrous and non-ferrous metals, rubble, C&D fines and timber. Country Clean Recycling also process wood on-site using a wood chipper.
Glass which is stored in a designated bay is transported off-site once sufficient quantities have been generated.
Hazardous waste is not accepted on-site. If hazardous waste is suspected, it is moved to a designated quarantine area for transportation off-site by a licensed operator.

3.4 Plant Equipment

The following table lists equipment used in the facility.

Table 4 Plant Equipment

Equipment	Number
Forklift	2
Bobcat	3
Komatsu Loader	1
Mobile Air Compressor	1
Liebher Excavator	1
Doppstadt Woodshreader	1
Power washer	1
Yard Sweeper	1
Foox material Handler	1
Skid Steer 230	1
Steel Bailer	1
Rapper	1
Redox Wind shifter	1
Mustang Trommell	1
Viper Conveyor	1
Terminator Conveyor Magnet	1
Air Compressor	1
Trommell Power Screen	1
Mixed Municipal Round Bailer	1
Skip Waste Picking Line	2
Weighbridge & Associated software.	1

3.5 Overview of Compliance with EPA licence

The following table indicates the list of non-compliances that occurred in 2014. Country Clean Recycling has fully engaged with the Agency re resolve these non compliances.

Table 5 Non-compliances, 2014

Non Compliance	Date	Condition	Details
Nuisance (Odour)	7-10-14	5.2	Odour detected at sensitive location down wind during assessment
Nuisance (Odour)	24-9-14	5.2	Odour detected at sensitive location down wind during assessment
Nuisance (Odour)	30-9-14	5.2	Odour detected at sensitive location down wind during assessment
Nuisance (Odour)	2-10-14	5.2	Odour detected at sensitive location down wind during assessment
Nuisance (Odour)	1-10-14	5.2	Odour detected at sensitive location down wind during assessment
Documentation& Procedures	7-10-14	11.1	Tonnage of household bio-waste calculated incorrectly
Nuisance (Dust)	10-12-14	5.1	Dust limit exceeded emissions limit at monitoring point D3
Documentation& Procedures	29-9-14	6.23.1	Nuisance inspections being carried out weekly instead of daily for vermin.
Exceedance of licensed waste quantity	31-9-1	1.2	1,139.62 Tonnes of bio-waste accepted rather than the limit of 1,042Tonnes
Waste Management	4-6-14	3.12	Waste stock piles exceeded intake limit
Unapproved alterations/modifications to activity/site	4-6-14	1.3,1.4, 3.1.1	Site clearance works being carried out outside EPA licensed boundary without notifying agency and failing to submit approval for SEW.
Waste Management	4-6-14	8.3	Unauthorised disposal of C&D waste

Non-Compliances Continued			
Non-Compliance	**Date**	**Condition**	**Details**
Waste Management	4-6-14	8.1	Mixed skip waste & C&D fines stored outside and not in waste transfer building in designated bay. Lead of odours off site.
Unapproved alterations/modifications to activity/site	4-6-14	3.13.1	Residual waste being trommelled to remove organic fines, remainder being baled without specific controls as stated in 3.13.1
Nuisance (Odour)	4-6-14	6.23.1	Strong odours outside waste transfer building
Nuisance (Odour)	4-6-14	5.2	Odour detected at sensitive location down wind during assessment
Failure to provide/install infrastructure	4-6-14	3.4.2	Waste being stored on unprotected ground

3.6 Waste Management Record

The following section details the waste received and sent off site during the reporting year (January-December, 2014). Country Clean Recycling's waste licence was not issued by the EPA until the 30th of January 2014 however; January has been included for comparison purposes.

3.6.1 Waste Received Report

Waste received at the Country Clean Recycling facility for 2014 was 98,113.87 tonnes. In 2014 Country Clean Recycling exceeded its allocated tonnage limit (1,040 tonnes) of separately Collected Bio-Waste and accepted and accepted 1,320.073 since Jan 2014. Country Clean Recycling notified the agency of the exceedance and seized to accept food waste from the 17 of Oct 2014. The following is a table showing waste received into the facility in 2014.

Table 6 Waste received on-site

Waste Type	EWC Code	Weight (Tonnes)
Waste adhesives and sealants	08 04 10	16.67
Cardboard	15 01 01	139.24
Glass packaging	15 01 07	2,789.29
Tyres	16 01 03	17.38
Glass (Windscreen)	16 01 20	4.40
Tiles and ceramics	17 01 03	28.88
Mixture of concrete, bricks, tiles and ceramics	17 01 07	1,117.88
Wood	17 02 01	93.26
Soil & Stone	17 05 04	275.02
Gypsum-based construction materials	17 08 02	1.36
Mixed construction and demolition wastes	17 09 04	5,402.17
Screenings	19 08 01	44.24
Waste from desanding (Grit)	19 08 02	11.19
Other wastes (including mixtures of materials) from mechanical treatment of wastes	19 12 12	2,081.88
Glass (plate)	20 01 02	48.14
Biodegradable kitchen and canteen waste	20 01 08	1,320.07
Clothes	20 01 10	12.63
Discarded electrical and electronic equipment	20 01 36	0.23
Wood other than that mentioned in 20 01 37	20 01 38	377.34
Plastics	20 01 39	83.89
Metals	20 01 40	3.01
Biodegradable waste (Garden Waste)	20 02 01	204.61
Mixed Dry Recyclables	20 03 01	21,474.58
Mixed Municipal Waste	20 03 01	50,374.38
Street-cleaning residues	20 03 03	101.42
Bulky Waste	20 03 07	12,090.72
Total		**98,113.87**

(Jan – Dec 2014 inclusive)

3.6.2 Waste Recovery Report

Of the 97,441.03 Tonnes of waste send off site in 2014, 87 % of this was sent for recovery. This breaks down as follows;

Table 7 Waste sent off site

Description of Waste	European Waste Code	Quantity	Waste Treatment Operation
Paper and cardboard packaging	15 01 01	104.26	Recovery
Wooden packaging	15 01 03	0.40	Recovery
Glass packaging	15 01 07	2,679.74	Recovery
End-of-life tyres	16 01 03	20.20	Recovery
Gases in pressure containers other than those mentioned in 16 05 04	16 05 05	3.32	Recovery
Cables other than those mentioned in 17 04 10	17 04 11	16.91	Recovery
Soil and stones other than those mentioned in 17 05 03	17 05 04	5,425.89	Recovery
Ferrous metal	19 12 02	1,028.86	Recovery
Non-ferrous metal - Brass	19 12 03	0.19	Recovery
Non-ferrous metal - Copper	19 12 03	0.42	Recovery
Non-ferrous met al -Aluminium	19 12 03	10.03	Recovery
Wood other than that mentioned in 19 12 06	19 12 07	2,082.94	Recovery
Minerals (for example sand, stones)	19 12 09	2,980.82	Recovery
Other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	19 12 12	2,702.20	Recovery
Glass	20 01 02	53.04	Recovery
Biodegradable kitchen and canteen waste	20 01 08	1,266.14	Recovery
Clothes	20 01 11	11.34	Recovery
Batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries	20 01 33	6.82	Recovery
Discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	20 01 36	0.77	Recovery
Wood other than that mentioned in 20 01 37	20 01 38	34.10	Recovery
Biodegradable waste	20 02 01	5.64	Recovery
Mixed municipal waste	20 03 01	7,814.34	Disposal
Mixed municipal waste	20 03 01	45,227.12	Recovery
Mixed Dry Recyclables	20 03 01	21,515.56	Recovery
Bulky waste	20 03 07	4,449.98	Disposal
Total		**97,441.03**	
% Recovery		**87%**	
% Disposal		**13%**	

(Jan – Dec 2014 inclusive)

These figures will be complied on an annual basis and compared in forthcoming AERs.

4 Site Developments

4.1 Infrastructural changes 2014

Infrastructural changes within the year were to improve the integrity of the facility and to comply with EPA waste licence conditions. Fast action inter-locking doors were installed at entry and exits to the main waste transfer building. This is in accordance with condition 3.13.1 of the facilities waste licence on dust and odour control. A woodchip enclosure was constructed in accordance with condition 8.1. Sealing works were carried out to maintain the integrity of the buildings and to reduce the number of openings; this included re-cladding the bale storage shed along with installing new doors in this building. In the top main reception waste transferred building the opening between cladding the top of the concrete wall was sealed to improve the integrity of the building.

4.2 Infrastructural *Changes 2015*

The following works to the Country Clean Recycling site have been given approval by the agency for 2015. These works consist of the installation of a negative air pressure system to control odour emissions within the waste transfer building. As part of these works a new extension to the bottom (bale storage building) has also been given approval. These works began in February 2015.
Drainage on-site will be updated with the approval of the agency in 2015, preliminary meeting have already taken place in 2015 between the Agency & Country Clean Recycling.

4.3 Bund and Pipe Testing

Bund and pipeline integrity testing was carried out as per condition 6.9 of the waste licence.

4.3.1 Bund Integrity Testing

Bund testing took place on the 10th of December, 2014. The test was carried out on four bunded areas:
Leachate sump in the materials recovery facility
An oil bund
Wheel wash sump
All bunds tested were found to be without fault and no leakage was observed. Bund integrity conformed to condition 6.9 of the waste licence.
All plastic bunds have passed their integrity test on 16th of October and 1st December, 2014. Attached in Appendix D.

4.3.2 Pipeline Integrity Testing

Pipeline integrity testing was carried out by an external contractor in December 2012. A schedule of required remedial works has been created to fix damage found.

Drainage systems are inspected weekly as per condition 6.10 of the waste licence. Drainage works are to be updated in 2015 with the approval of the agency.

5 Environmental Development

5.1 Environmental Liability Risk Assessment Review

An environmental liability risk assessment (ELRA) review was submitted to the agency in Q1 of 2015 as per condition 10.2.3 of the waste licence. The ELRA was submitted but has not yet been approved by the EPA. The Agency has requested that a review of same must be submitted after building extension works to the waste transfer building is complete.

5.1.1 Financial Provision

Financial provision is to ensure that sufficient financial resources are available to over known liabilities at the time of the facility closure, during after care and maintenance of the facility and during the operating life of the facility. The ELRA has recommended the facility should keep the following insurances in place;
Employers liability €13million
Public Liability €6.5 million
Buildings and contents insurance
Provide for 'excess' in relation to insurance cover
This provision has not yet been agreed by the agency.

5.1.2 Closure Plan

The Decommissioning Management Plan (DMP) was submitted and agreed by the agency in November, 2014. In the event of closure, provision should be made for an expected liability of €18,000 to cover decommissioning costs. In the even of an unforeseen closure, provision should be made of €544,060 to cover decommissioning costs. This report was approved by the Agency in 2014 and however the Agency has indicated that this will have to be reviewed after the extension to the waste transfer building is complete, (planned completion Q3 2015).

5.2 Environmental Policy

The following is Country Clean Recycling Environmental policy as part of its EMS.
Country Clean recycling (CCR) acknowledge that the facilities activities impact upon the environment. It is CCR's policy to protect the environment during all activities, both on and offsite. This is achieved by:
Complying with all relevant statutory legislating and codes of practice that apply to our activities.
Strategically preparing and implementation of operating procedures (including an emergency response procedure).
Preventing pollution through planning and organising activities that may have an environmental impact.
Utilising BAT (Best Available Technology).

Actively promoting environmental awareness amongst staff and clients through appropriate training and communication programs.
Reducing energy use through effective education and awareness and the installing energy efficient technology where appropriate;
Implementing a policy of continuous improvement, by means of targeted objectives.
CCR are committed to complying with all relevant environmental regulations and aim to supply a safe competitive and sustainable service with specific regards to the surrounding environment.

5.3 Environmental Management System

As per condition 2.2 of the waste licence, the facility has established its own Environmental Management System (EMS). The Environmental Management System set out by Country Clean Recycling Ltd functions as an action plan, dealing with the implementation of measures to achieve the objectives and targets set for the facility. CCR has also established documented procedures for operations and activities that may have an impact on the environment. All significant impacts will be managed by means of operational control i.e. documented in a procedure or by the setting of an environmental objective. These procedures and policies may be found in appendix C of this report. The EMS waste submitted to the Agency in 2014 for their approval. The EMS for Country Clean also includes an environmental management programme which represents many aspects of environmental concern including;

Air
Water
Noise
Waste licence
Atmospheric Emissions
Sensitive species & Habitats and
Power consumption
CCR maintain documented procedures for identification, maintenance and disposition of environmental records, including competency records and results of audits and reviews.

5.4 Schedule of objectives and targets

A schedule of objectives and targets for 2014 and 2015 can be seen In Appendix B.

5.5 Nuisance Controls

The following controls are in place to comply with condition 6 of the waste licence.

5.5.1 Rodents

In addition to daily vermin checks around the Country Clean facility, a vermin control company, Ecolab, has been contracted. Ecolab inspect the site monthly as well as laying down bait boxes as part of the vermin control within the facility. All records concerning vermin control are maintained onsite, including maps of the locations of the bait boxes.

5.5.2 Birds

To control bird nuisance, a hawk kite is used to deter birds from the facility. Personnel are also aware that keeping doors to the waste transfer building closed will reduce the bird nuisance on site.

5.5.3 Odours/Dust

In accordance with condition 6.20 of the waste licence, odour assessments are carried out daily to ensure there is no odour nuisance on or off-site. Fast operating interlocking doors were installed in 2014 to minimise odour nuisances. An odour abatement system is to be installed in 2015. In dry weather, site roads and yard to minimise dust nuisance.

5.5.4 Flies

There has been no issue relating to fly nuisances on-site within 2014. One complaint was recorded in relation to flies within the year, but this was not raised as an issue in the numerous EPA site visits through the year. Fly nuisance is controlled by daily housekeeping procedures.

5.5.5 Litter

In accordance with condition 6.19, daily checks are carried out to monitor and control litter within the facility. Staff sweep and collect litter throughout the day as part of their good housekeeping procedures. On site staff has received training on the importance keeping the site tidy. All vehicles delivering and removing waste are covered.

6 Report on Emissions and Environmental Monitoring

6.1 Summary

Country Clean Recycling implements an environmental monitoring plan to assess the significance of emissions on-site. The results are reported to the agency as per condition 6.2 of the waste licence. The plan includes the monitoring of noise, dust, emissions to sewer and emissions to storm water. The results are shown below. Dust and sewer emissions that were exceeding the emissions limits were reported to the agency. The interpretations of exceedance to emission limits are provided below. All other monitoring was within emissions limits of the waste licence.

6.2 Noise

According to condition 6.15.1, a noise survey was carried out on site operations within Country Clean Recycling Ltd. An independent consultant was commissioned to carry out this survey. The survey was taken at two noise sensitive locations (NSL) on site. Surveys were taken during the day and at night.

The survey concluded that noise emitted on site complies with the specified noise limits of the licence. There were no tonal or impulsive noises audible throughout the survey. L_{Aeq} was misrepresented as it was significantly influenced by external sources of noise including aircrafts passing, nearby road traffic, nearby industrial noise and dogs barking.

Table 8 Noise survey results summary

Date sampled:	2014				
	08.12.2014	08.12.2014	09.12.2014	Tonal/Impulsive noise?	Compliant with noise limits
	Day	Evening	Night		
Units	L90, 30mins (dBA)	L90, 30mins (dBA)	L90, 30mins (dBA)		
NSL1	46-49	36	33-35	No	Yes
NSL2	46-48	36	31-36	No	Yes

Table 9 Noise survey complete results

Date	Time	Position	Lf,max	Leq	L10	L90	Comments
08/12/2014	15:11-16:19	**NSL1**	69	52	52	46	Negligible noise from waste facility audible. Intermittent truck movements and onsite traffic audible. L_{Aeq} not representative as it is highly influenced by external sources including aircrafts overhead, Unidentified industrial noise, road traffic nearby and dogs barking.
08/12/2014	16:21-16:51		66	53	53	49	
08/12/2014	16:51-17:21		71	52	52	46	
08/12/2014	22:22-2:52	**NSL1**	56	39	41	36	Bobcat audible when in occasional use, bucket scraping on floor. L_{Aeq} not representative of bobcat due to a large influence from external sources such as road traffic and dogs barking. No site activity after 23:33. Distant road traffic and dogs continuously audible.
08/12/2014	23:14-23:44		63	44	46	35	
08/12/2014	23:44-00:14		53	35	37	33	
08/12/2014	15:46-16:16	**NSL2**	81	54	55	46	Negligible noise from waste facility audible. Intermittent truck movements and onsite traffic audible. L_{Aeq} not representative as it is highly influenced by external sources including aircrafts overhead, Unidentified industrial noise, road traffic nearby and dogs barking.
08/12/2014	16:16-16:46		94	58	54	47	
08/12/2014	16:47-17:17		80	54	57	48	
08/12/2014	22:28-22:58	**NSL2**	53	40	42	36	Bobcat audible when in occasional use. L_{Aeq} not representative of bobcat due to a large influence from external sources such as road traffic and dogs barking. No site activity after 23:33. Distant road traffic and dogs continuously audible. Aircraft passing significantly audible. No site activity from 23:32
08/12/2014	23:02-23:32		61	40	42	36	
08/12/2014	23:32-00:02		53	35	37	31	

6.3 Dust

As per schedule C of the waste licence, Country Clean Recycling Ltd carry out dust monitoring on a biannual basis, with one period between May-September. There are five monitoring locations on site:

D1 (166066E 073608N)
D2 (166125E 073615N)
D3 (166125E 073598N)
D4 (166135E 073536N)
D5 (166086E 073531N)

The following table gives the results of both surveys. Samples were taken over the course of 30 days in each location. The results of the first monitoring survey all exceeded the daily limits. Results in D3 on the 10th of November exceeded the daily limit of 350mg/m^2.The sample was located near the woodchips, which were not in a designated enclosure at the time. This result was reported to the agency. A woodchip enclosure has since been constructed.

Table 10 Results of biannual dust monitoring on site 2014

Dustfall Value 2014		
Sample Period	**1 Sept - 30 Sept 2014**	**10 Nov to 10 Dec 14**
Units	**mg/m2/day**	**mg/m2/day**
D1	531.5	177.9
D2	370.9	93.2
D3	1,844.6	435.2
D4	634.7	272.8
D5	2,869.0	307.6

6.4 Water and Waste water

Country Clean Recycling Ltd has direct emissions to both surface water and sewers as per their waste licence. In accordance with schedule C.3.2, emissions to sewers were monitored. All parameters were to be monitored on a quarterly basis, with the exception of flow which is done on a continuous monitoring and pH which is carried out monthly.
The following are results recorded for both storm water and emissions to sewers. SW1 and SE1 are the only monitoring points on site.
Visual inspections and odour inspections were carried out weekly. No contamination on any surface water discharges was seen.

6.4.1 Storm water/ Surface Water

Storm water run-off from roofed areas is diverted directly to Cork City Council storm water sewer without passing an interceptor as per condition 3.20.3 of the waste licence. The following are monitoring results for storm water.

Table 11 Storm water monitoring results

Sample Description SW1			**2014**				**Trigger Levels**	**Emission Limits**
Date Sampled			**31/03/2014**	**27/06/2014**	**03/09/2014**	**11/12/2014**		
Parametres		**Limits**	**Q1**	**Q2**	**Q3**	**Q4**		
Inorganics								
Ammoniacal Nitrogen as NH3	mg/l		-	-	<0.2	-	N/A	N/A
BOD, unfiltered	mg/l		-	-	3.64	-	N/A	N/A
COD, unfiltered	mg/l		12.7	43.5	13.6	<7	N/A	N/A
Conductivity @ 20 deg.C	mS/cm		-	-	0.216	-	N/A	N/A
Nitrate as N	mg/l		-	-	1.7	-	N/A	N/A
Surfactants, Anionic (MBAS)	mg/l		-	-	0.0578	-	N/A	N/A
Suspended solids, Total	mg/l		<2	<2	3	2	N/A	N/A
Filtered (Dissolved) Metals							N/A	N/A
Aluminium (diss.filt)	mg/l		-	-	0.00	-	N/A	N/A
Cadmium (diss.filt)	mg/l		-	-	0.00	-	N/A	N/A
Chromium, Hexavalent	mg/l		-	-	<0.03	-	N/A	N/A
Copper (diss.filt)	mg/l		-	-	0.03	-	N/A	N/A
Iron (diss.filt)	mg/l		-	-	<0.019		N/A	N/A
Lead (diss.filt)	mg/l		-	-	0.00	-	N/A	N/A
Mercury (diss.filt)	mg/l		-	-	0.00	-	N/A	N/A
Nickel (diss.filt)	mg/l		-	-	0.00	-	N/A	N/A
Unfiltered (Total) Metals							N/A	N/A
Chromium (tot.unfilt)	mg/l		-	-	0.00	-	N/A	N/A
Phosphorus (tot.unfilt)	mg/l		-	-	0.02	-	N/A	N/A
Mineral Oil / Oils & Greases						-	N/A	N/A
TPH / Oil & Greases	mg/l		<1	<2	1.46	<1	N/A	N/A

6.4.2 Sewer

The following table is the results of quarterly monitoring of emissions to sewers. All results comply with schedule B.3 of the waste licence except in Q3. In this quarter ammonia, BOD, COD and phosphorus exceeded emission limits outlined. This was due to excess leachate from bales. The bales are sprayed with Aquaclean, to reduce the potential of leachate and personnel are to ensure they are wrapped correctly. Drainage works are to be updated in 2015 with the approval of the Agency.

Table 12 Sewer monitoring results

Sample Description SE1			**2014**			
Date sampled			**31/03/2014**	**27/06/2014**	**03/09/2014**	**11/12/2014**
Parametres		**Emission Limits**	**Q1**	**Q2**	**Q3**	**Q4**
Inorganics						
Ammoniacal Nitrogen as NH3	mg/l	5	1.64	2.02	39.5	2.83
BOD, unfiltered	mg/l	1000	13.1	234	1470	65.4
COD, unfiltered	mg/l	1500	28.2	298	2410	96.9
Conductivity @ 20 deg.C	mS/cm	1500uS/cm	0.0966	0.768	1.79	0.366
Nitrate as N	mg/l	30	0.269	<0.0677	0.115	<0.0677
Surfactants, Anionic (MBAS)	mg/l	20	<0.05	0.338	0.639	0.0856
Suspended solids, Total	mg/l	400	10	37	203	37
Filtered (Dissolved) Metals						
Aluminium (diss.filt)	mg/l	5	0.011	0.0405	0.0469	0
Cadmium (diss.filt)	mg/l	0.1	0.0001	0.0001	0.0001	0
Chromium, Hexavalent	mg/l	0.1	<0.03	<0.03	<0.03	<0.02
Copper (diss.filt)	mg/l	1	0.00213	0.00367	0.00604	0
Iron (diss.filt)	mg/l	5	0.138	2.06	4.31	1.01
Lead (diss.filt)	mg/l	1	0.000809	0.00195	0.00171	0
Mercury (diss.filt)	mg/l	0.1	0.00001	0.00001	0.00001	0
Nickel (diss.filt)	mg/l	1	0.00111	0.0197	0.0516	0
Unfiltered (Total) Metals						
Chromium (tot.unfilt)	mg/l	1	0.003	0.0101	0.0636	0
Phosphorus (tot.unfilt)	mg/l	5	0.1	0.951	11.7	0
Mineral Oil / Oils & Greases						
TPH / Oil & Greases	mg/l	50	<1	4.08	30.4	2.04

Table 13 Sewer monthly results

Month	Date of Sample	Ph	Temp	Month	Date of Sample	pH	Temp
Jan	N/A	No licence	N/A	July	16-Jul-14	7.59	14.5
Feb	27-Feb-14	7.55	10.2	Aug	20-Jul-14	7.50	12.5
March	18-Mar-14	7.44	15.4	Sept	23-Sep-14	7.61	14.1
April	01-Apr-14	7.66	10.5	Oct	21-Oct-14	7.72	8.5
May	22-May-14	7.65	12.5	Nov	06-Nov-14	7.65	8.1
June	10-Jun-14	7.75	13.1	Dec	02-Dec-14	7.55	6.5

6.5 Pollutant Release and Transfer Register

To read the pollutant release and transfer register for 2014, see appendix E.

6.6 Summary of Resource and Energy Consumption

Country Clean Recycling energy audit was submitted on the 23rd of February, 2015. This is the first energy audit performed by the facility as it is within 12 months of the waste licence being issued. The following recommendations were made to improve the efficiency of the facility;

Energy and fuel consumption should be monitored on a regular basis.

Route efficiency investigations for waste collection trucks should be undertaken.

An energy policy/action plan should be developed for the facility to track energy usage and to conserve where possible.

Personnel responsible to track energy consumption should be identified with the EMS.

An awareness campaign to reduce energy consumption including; encouraging staff to switch of equipment/lights when not in use, providing stickers/posters that encourage energy conservation, making staff aware of the costs of energy usage within the site.

Undertaking internal energy audits to identify where improvements need to be made.

Table 12 gives an indication of resources consumed in 2014. In November 2014 a ESB substation was constructed on-site which allows full use of electricity throughout the facility from the grid. Up to this point, only lighting and office equipment was run using electricity. A diesel generator was used to run waste sorting machinery. Since switching to a substation, usage is now being tracked weekly and bench marked against weekly throughput of waste. The wood chipper and the waste shredder work off their own diesel engines. Green diesel is stored on site for mobile machinery such as bobcats, forklifts, loaders, excavators and compressors. Road diesel is stored on site for waste collection vehicles. The use of main power will allow for better tracking of energy usage and greatly reduce diesel consumption going forward.
As seen in figure 1, there is an increase in the use of electricity in the months of November and December which marks the transition from diesel usage for machinery to electrical. There is a reduction in diesel usage which also marks this transition (figure 2). There are no boilers on-site, so fuel oil is not used and not included within the waste licence.
Country Clean Recycling is not an accredited member of any programmes for reducing energy/water usage, but will continue to monitor usage with an aim continually reduce consumption per through put.

Table 14 Energy consumption summary

Resource	**% Usage**
Diesel (Machine Usage)	58
Diesel (Fleet Usage)	41
Electricity	1

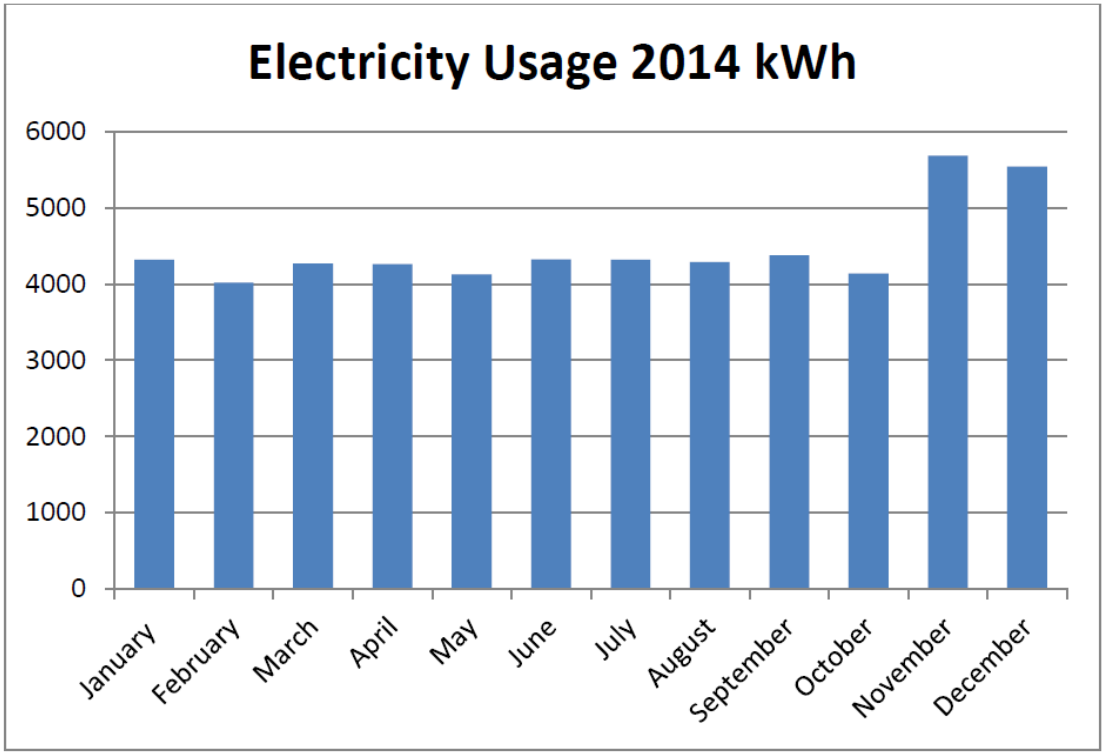


Figure 1 Electricity Usage 2014 (kWh)

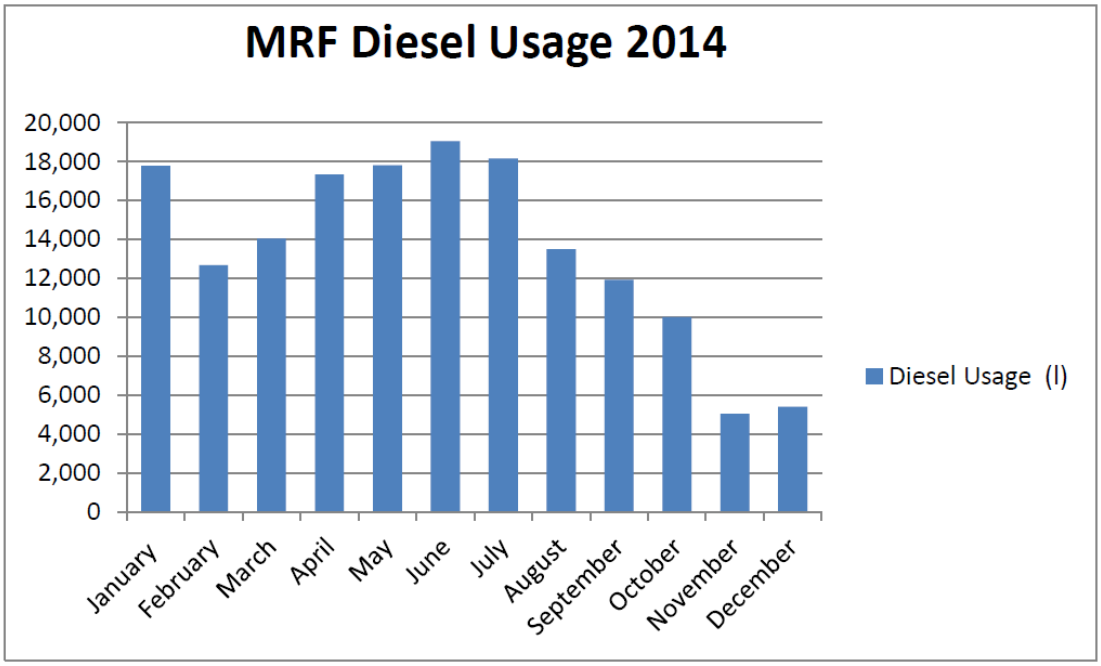


Figure 2 Diesel usage on-site 2014 (l)

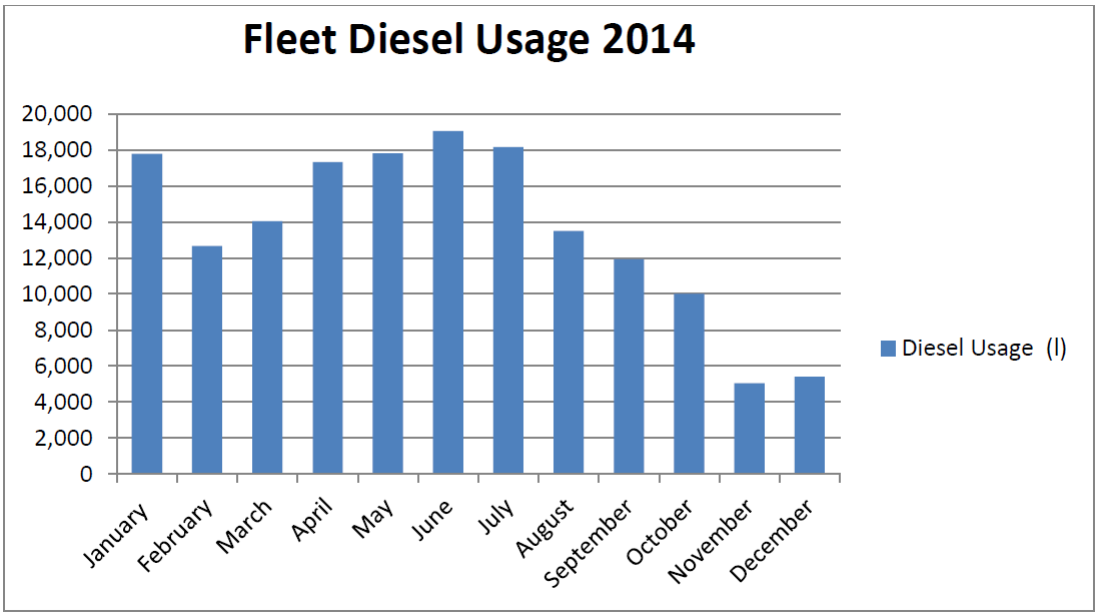


Figure 3 Fleet diesel usage 2014 (l)

6.7 Water usage

Water used for facility use and potable water is taken from the public supply. There are no wells on site. Water used for washing equipment and trucks, dust suppression and fire fighting equipment is taken from the storage tank on-site. To minimise water consumption, rainwater is harvested and used for washing equipment etc. Water usage from the public supply is tracked on a monthly basis.

The following two tables show water consumption from the public water supply. Volume discharged back to the environment is an estimate; this is because a flowmetre was not installed until the beginning of April, 2014 as per schedule C.3.2 of the waste licence. As 2014 is the first reporting year of the licence, there is no data on the previous year to compare consumption.

There is no data available on the consumption of surface water or recycled water as flow metres have not yet been installed. There are no water discharges as steam.

Table 15 Water consumption 2014

	Water extracted current Year m3/year	Energy Consumption% Vs overall site production	Volume Discharge back to environment	Unaccounted for water
Public supply	443		450	7
Recycled Water	No data	No data	No data	No data
Surface Water	No data	No data	No data	No data

Table 16 Water Readings 2014

Water Usage 2014		
Month	**Meter Reading**	**m3**
Jan	7919	41
Feb	7945	26
March	7973	28
May	7993	20
June	8019	26
July	8037	18
Aug	8142	105
Sept	8204	62
Oct	8214	10
Nov	8284	70
Dec	8321	37
Total		**443**

6.8 Other Resources Consumed On-site 2014

Table 17 Resource consumption summary

Resource	Usage
Electricity	142.3707MWHrs
Fuel	109005.66Litres
Clean Air (Odour Suppression)	1650kg
Lithium Complex	6 Boxes of Cartridges
Bio Degradable Hyd	200lts
Optima Diesel 15/40 -	1600ltrs
Degreasant	60ltrs
Hydraulic 32	20ltrs
Ryan Hydraulic 46 -	3400ltrs
3400ltrs Ryan SD 10W	600ltrs
Antifreeze - 200ltrs	200ltrs
Clean Oil	1200ltrs
Indusol 150 Drum	40ltrs
Envirochem	25ltrs
Satin Black Aersol	35ltrs
Tex applicant paint gloss white	4,000ml
SIGMAFAST20	20Ltrs
SELEMIX 7610	460KG
SELEMIX 7610	45KG
Nuklad 814B cure	4.7K
Nuklad 814B resin	20.3K
Envirochem CX 1L (Odour Suppression)	25 L
AquaClean (ACF-32 US Gallon) Lechate control bacteria	48 L
Hydrodor XC 5L (Odour Suppression)	25 L
Hydrodor XC 50L (Odour Suppression)	450 L
Hydrus 75 (Detergent)	1000 L

In 2014, large amounts of odour suppression chemical were used on site. A new negative air pressure system being installed in 2015 should reduce the need for products.

7 Incidents & Complaints Summary

7.1 Incidents

There were four reported incidents in 2014.

1. Country Clean Recycling exceeded its Dust Deposition Limits level of 350mg/m2 per day during the 30 day monitoring period of September 2014 at each of its monitoring locations. Infrastructure improvements helped to insure dust levels were within ELVs in 4 out of the 5 monitoring locations.
2. Odour nuisance beyond the boundary of the site caused by a skip truck parking outside the waste transfer building leaving it malodours contents out in the open, occurred on the 17.07.2014 . The incident was caused by inadequate training and operational procedures. Country Clean Recycling now ensure that the correct operational procedures are carried out by personnel
3. Country Clean Recycling exceeded its Dust Deposition Limits level of 350mg/m2 per day on the 17th of December 2014, for the monitoring period of the 10th of November to the 10th of December 2014. The exceedance was located at monitoring point D3 with a result of 435.2mg/m2 per day. The likely cause was due to inadequate infrastructure as the sample was located near the wood chippings location, which did not have an enclosure at the time. An enclosure has since been constructed. The likelihood of reoccurrence is low.
4. Sewer emissions exceeded emission limits in Quarter three on the 3-09-14. Emission limits were exceeded for ammonia, BOD, COD and phosphorus. The likely cause of this incident was excess leachate coming from bales. This was corrected by ensuring bales were wrapped correctly and a chemical called Aquacclean is sprayed to reduce the amount of leachate coming from bales. The likelihood of reoccurrence is medium, however baling shed is checked daily for evidence of leachate. Drainage works are to be updated in 2015 with EPA approval.

7.2 Complaints

The following table illustrates complaints that were made either to the EPA or directly to the facility. A total of 36 complaints were made. These were investigated thoroughly and corrective actions were taken when necessary.
86.11% of complaints made were in relation to odour/smell, 5.5% in relation to bird nuisances, 2.78% for noise, 2.78% for fly nuisances and a further 2.78% in relation to waste.
In order to address these issues, the integrity of the facility has been improved by sealing all openings, installing new doors and replacing cladding where necessary. After meetings with the EPA, it was agreed that an odour abatement system would be installed on the facility in 2015.
The following graph summarises the complaints made in 2014.

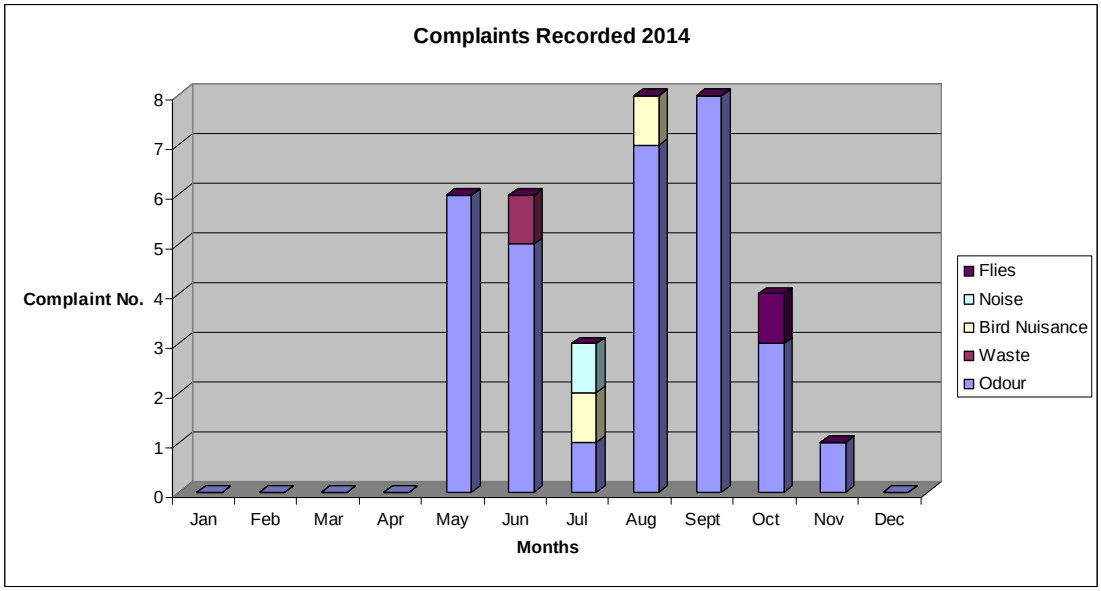


Figure 4 Summary of complaints made in 2014

The following table describes the complaints made throughout the year.

Table 18 Complaints recorded, 2014

Date	Type of Complaint	Likely Cause	Details of Corrective Action 2	Resolution Status
05/05/2014 14:00	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete
07/05/2014 08:00	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete
08/05/2014 11:00	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete
28/05/2014 09:30	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete

Date Cont.	Type of Complaint Cont.	Likely Cause Cont.	Details of Corrective Action Cont.	Resolution Status
28/05/2014 15:30	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete
28/05/2014 17:47	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete
03/06/2014 12:00	Odour/Smells	Failure of abatement equipment (not WWTP)	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete
05/06/2014 11:00	Odour/Smells	Failure of abatement equipment (not WWTP)	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete
05/06/2014 12:00	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete
05/06/2014 16:00	Odour/Smells	Failure of abatement equipment (not WWTP)	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete
08/06/2014 00:00	waste	Inadequate Operational Procedures/Training	Replied directly to EPA outlining details that only authorised personnel allowed on site in compliance with legislation.	complete
17/06/2014 11:00	Odour/Smells	Failure of abatement equipment (not WWTP)	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete
17/07/2014 00:00	Odour/Smells	Failure of Primary or Secondary containment	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete

Date Cont.	Type of Complaint Cont.	Likely Cause Cont.	Details of Corrective Action Cont.	Resolution Status
17/07/2014 07:00	Noise	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced. Monitoring as per EPA licence	complete
21/07/2014 00:00	Bird Nuisance	Failure of Primary or Secondary containment	Hawk kite put in place and daily monitoring carried out.	complete
01/08/2014 11:00	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete
01/08/2014 16:00	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced	complete
03/08/2014 08:30	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced	complete
05/08/2014 10:00	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete
05/08/2014 11:00	Odour/Smells/Bird Nuisance	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced, Hawk kite in place & Daily monitoring	complete
13/08/2014 15:00	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete

Date Cont.	Type of Complaint Cont.	Likely Cause Cont.	Details of Corrective Action Cont.	Resolution Status
13/08/2014 20:00	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete
23/08/2014 21:00	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete
01/09/2014 10:50	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete
05/09/2014 18:00	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete
10/09/2014 09:00	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete
11/09/2014 11:45	Odour/Smells	Inadequate infrastructure	Informed of council works on surface water within the area & of odour works on site by Improving Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete
13/09/2014 17:00	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete
13/09/2014 22:00	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete

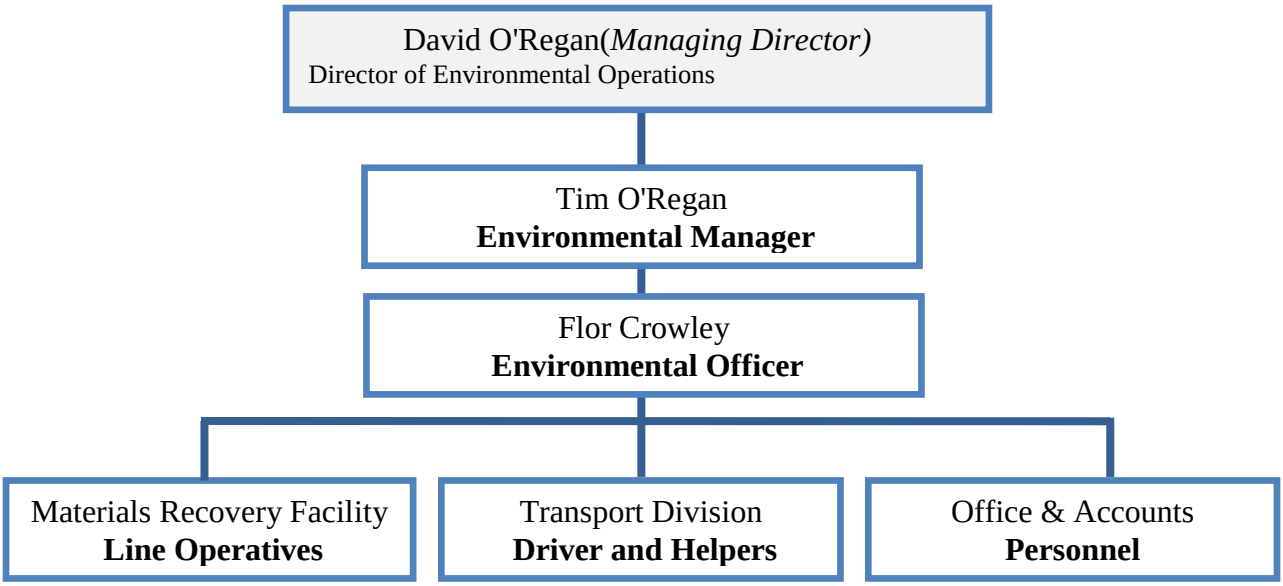
Date Cont.	Type of Complaint Cont.	Likely Cause Cont.	Details of Corrective Action Cont.	Resolution Status
23/09/2014 08:00	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete
24/09/2014 21:00	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete
25/09/2014 08:00	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete
09/10/2014 09:00	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete
14/10/2014 00:00	Flies	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced.	complete
23/10/2014	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced. Agreed to install odour abatement system after meetings with EPA.	On-going
28/10/2014 14:18	Odour/Smells/Bird Nuisance	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced. Agreed to install odour abatement system after meetings with EPA.	On-going

Date Cont.	Type of Complaint Cont.	Likely Cause Cont.	Details of Corrective Action Cont.	Resolution Status
10/11/2014 00:00	Odour/Smells	Inadequate infrastructure	Improve Integrity of Building - Opening in Building Sealed, New Doors Installed, Cladding in Bottom Shed Replaced. Agreed to install odour abatement system after meetings with EPA.	On-going

8 Management and Staffing Structure

Country Clean Recycling has established the environmental management of the company to ensure the roles, responsibilities, authorities and communication channels are clearly defined. The diagram below outlines the management structure within CCR.

Figure 5 Country Clean Recycling Management Structure



9 Programme for public information

Country Clean Recycling are committed to providing an efficient service and ensuring they comply with environmental compliance in their operations. Current and new customers are informed and kept up to date about the facilities waste acceptance procedures.

The Country Clean Recycling website holds information for customers in relation to paying bills and how to recycle correctly. Collection calendars can also be downloaded on this website. The Environmental Policy is available in reception for any member of the public to review. In addition if a member of the public requests a copy of the policy, or any other environmental information relating to the site it will be reviewed by the Environmental Department and processed accordance with CCR-ER003– Communications.

There is continuous interaction with the local communities, such as sending letters to residents, attending community meetings, visiting schools and meeting with local representatives.

Appendices

Appendix A

Waste acceptance procedure

CCR-EP0011 Waste Acceptance Procedure		
Prepared By: _____ **Flor Crowley** EHS Officer	Date: _____	Issue Date: 17.04.2014
Approved By: _____ **David O'Regan** Managing Director	Date: _____	Rev. No.: 0

Procedure	Waste Acceptance Procedure	**Custodian**	Environmental Health and Safety Manager
Revision No.	**Effective Date**	**Description of Changes**	**Reason for Revision**
0	17.04.14	New Procedure	New Procedure
1	06.09.14	Added Procedure for dealing with food waste to make sure it's covered.	To Ensure compliance with EPA licence – condition 6.20.1 – and help stop food waste being a potential source of odour odd site.

Table of Contents

- **Introduction**

The purpose of this procedure is to ensure that waste accepted at the site for treatment complies with the conditions outlined in the Waste Licence and any hazardous waste is identified and rejected or quarantined as appropriate. It is the responsibility of the Environmental Manager to ensure that this specification is implemented and maintained up to date. This procedure applies to the control of all waste handled at the Materials Recovery Facility at Churchfield Industrial Estate, Co. Cork.

- **Definitions**

9.1.1.1.1.1.1 **Hazardous Waste** 9.1.1.1.1.1.2 Is any such waste covered by the Council Directive 91/689/EEC on Hazardous Waste. The Waste Management Act, 1996 defines it as:

9.1.1.1.1.1.3 (i) Hazardous waste for the time being mentioned in the list prepared pursuant to Article 1(4) of Council Directive 91/689/EEC of 12th December, 1991, being either

9.1.1.1.1.1.4 (ii) Category Waste I that has any of the properties specified in Part II of the Second Schedule, or

9.1.1.1.1.1.5 (iii) Category II waste that-

- Contains any of the constituents specified in Part II of the Second Schedule and
- Has any of the properties specified in Part III of the said schedule

9.1.1.1.1.1.6 (iv)Such other waste, having any of the properties specified in Part III of the second schedule, as may be prescribed for the purposes of this definition.

- **Responsibility**

Environmental Manager

The Environmental Manager is responsible for ensure that all waste that enters the site is inspected.

Weighbridge Personnel

The weighbridge personnel are responsible for inspecting loads for non-conforming waste prior to acceptance at the weighbridge.

Waste Operatives

Waste operatives are responsible for tipping and inspecting waste on arrival to the site and highlighting non conforming waste.

1 Procedure

- Waste shall only be accepted at the facility from Local Authority waste collection or transport vehicles or holders of waste permits, unless exempted or excluded, under the Waste Management Act 1996 as amended. Copies of these waste collection permits shall be maintained at the facility (As per Condition 8.2.1 of WO 257-01).
- Unless otherwise agreed by the Agency, waste shall be accepted at the facility only from known customers or new customers subject to initial waste profiling and waste characterisation off-site. The written records of this off-site waste profiling and characterisation shall be retained by the licensee for all active customers and for a two year period following termination of licensee/customer agreements (As per Condition 8.2.3 of WO 257-01).

- Country Clean Recycling CCR-EP005 Waste Profiling Procedure & Waste Profile & Characterisation Sheet (CCR-ER010) shall be used to profile and characterise waste from new customers.
- Waste arriving at the facility shall have its documentation checked at the weighbridge and verified on site to confirm that it is acceptable.
- Subject to verification each load will be weighed, documented and directed inside the waste transfer building. Each load of waste arriving at the waste transfer building shall be inspected upon tipping within this building. Only after such inspections shall the waste be processed for recovery or disposal.
- All waste handled at the facility will be characterised using the aid of the flow diagram outlined in Figure1 for characterising waste.
- Using the European Waste Catalogue (EWC) waste from each individual customer will be assigned an appropriate EWC Code as follows

Step 1. Try to identify where in chapters 01 to 12 or 17 to 20 the waste is produced (i.e. the industry or process from which the waste arose, including household or similar waste). Using the information outlined in the bullet points above, identify the appropriate six-digit code for the waste, excluding codes ending with 99.
Step 2. If an appropriate waste code cannot be found in chapters 01 to 12 or 17 to 20, then the next step is to examine chapters 13, 14 and 15.
Step 3. If none of these waste codes properly describes the waste, try to identify whether the waste is described in chapter 16.
Step 4. If a suitable code still cannot be found, choose a 99 code from the appropriate chapter in Step 1.

- The following website may be used as a resource to assign an EWC Code based on the aforementioned steps - http://www.wastesupport.co.uk/ewc-codes/ (Viewed May 2014)

- Country Clean Recycling shall maintain a written (Or digital) record for each load of waste arriving at, or leaving the facility. In compliance with Condition 11.11 Country Clean Recycling shall record the following;
  - the date and time;
  - the name of the carrier (including if appropriate, the waste carrier registration details);
  - the vehicle registration number;
  - the trailer, skip or other container unique identification number (where relevant);
  - the name of the producer(s)/collector(s) of the waste as appropriate;
  - the name of the waste facility (if appropriate) from which the load originated including the waste licence or waste permit register number;
  - the destination of the waste, if appropriate (including the facility name and waste licence/permit number as appropriate);
  - a description of the waste including the associated EWC/HWL codes;
  - the quantity of waste, recorded in tonnes;
  - details of the treatment(s) to which the waste has been subjected;
  - the classification and coding of the waste, including whether MSW or otherwise;
  - whether the waste is for disposal or recovery, and if recovery, for what purpose;
  - the name of the person checking the load; and
  - where loads of waste are removed or rejected, details of the date of occurrence, the types of waste and the facility to which they were removed.

- Food Waste delivered on site will be dealt with as follows;
  - All food waste will be tipped off within the designated food waste storage bay.
  - Food waste is tipped into an open skip where the mechanics of the truck allow and then into a covered container.

- Otherwise the food waste will be tipped onto the floor of the food waste storage bay and then disposed into a covered container.
- After each load is tipped in the food waste bay a designated operator will wash down the open skip if used, the floor area and the outside of the closed container.
- It will also be their duty to make sure the food waste container is closed at all times after it is loaded.
- The daily Housekeeping Record (ER006) will check to make sure that the food storage bay is clean and the food storage remains covered.

- **Waste Rejection**

Waste is rejected if it does not conform to the list of waste accepted at the facility.

If the person checking the load is suspicious about its contents it shall be tipped and checked by trained staff at the designated waste- inspection area in order to determine its contents. If it is found to be unacceptable the contractor will be informed and the waste will be removed from the facility immediately. The waste will be isolated and retained in the waste quarantine area until removal.

Country Clean Recycling will keep a record of rejected loads and will include:

- Date
- Name of Carrier
- Source of Waste
- Vehicle Registration
- Description of Waste/EWC code
- Quantity of Waste
- Name of person who carried out the inspection
- Destination of load prior to rejection

- **Reporting**

o Any waste which does not conform to that specified within the Waste Licence will be held onsite and the Environmental Protection Agency will be informed.
o A senior member of staff will compile a report outlining the possible sources and composition of the material.
o A disposal strategy for such waste will be agreed with the Environmental Protection Agency prior to disposal.

- **Communication**

All reports/documentation will be retained onsite within the facility. Environmental Protection Agency will be informed of any proposed alteration to the waste acceptance procedure.

- **Training**

8.1 Personnel involved in waste acceptance must be involved of the acceptance criteria to ensure that the procedure is implementation correctly

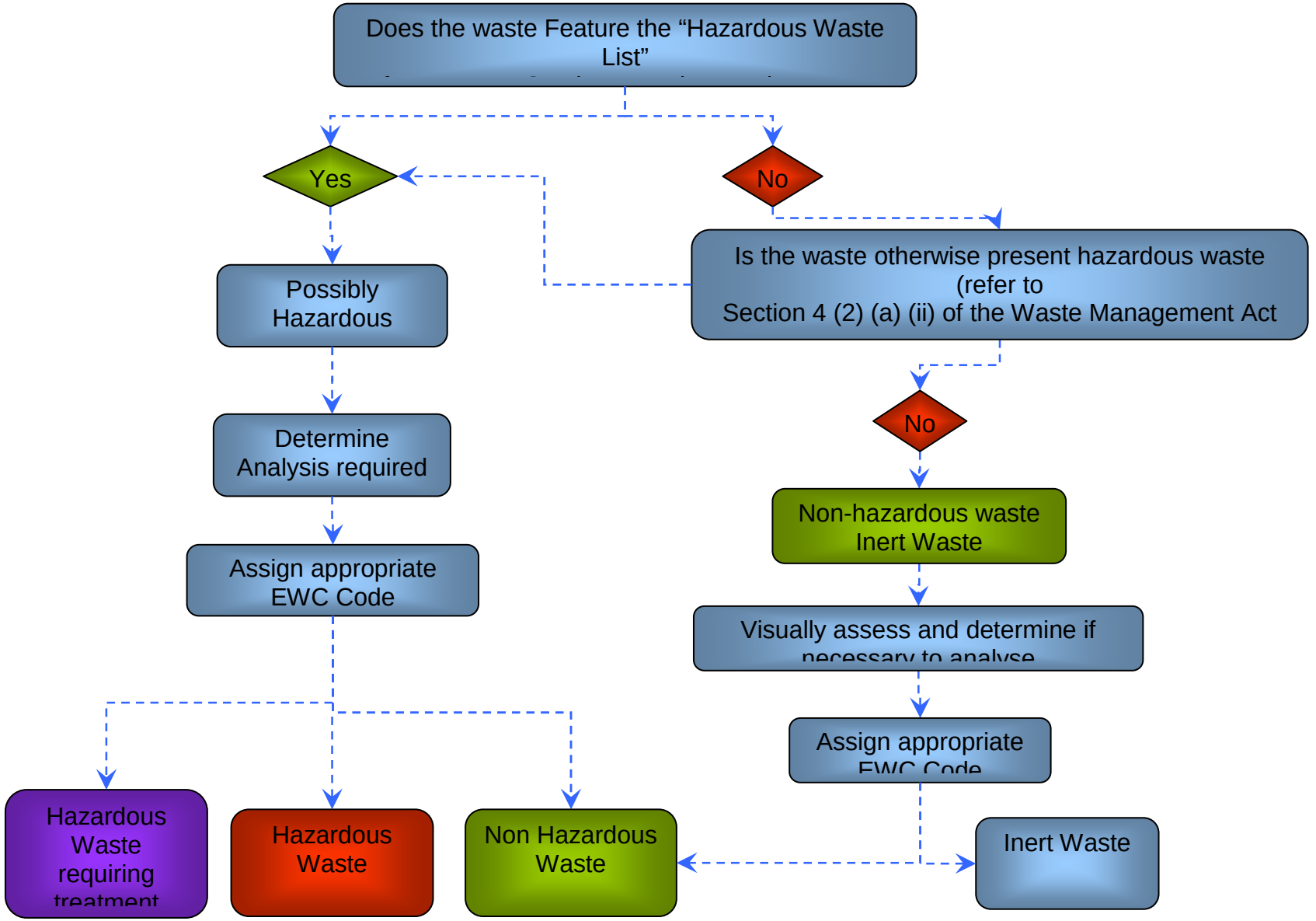


Figure 1 Waste Classifying Procedure

Appendix B

Schedule for Environmental Objectives and Targets 2014-2015

Table Schedule for Environmental objectives and Targets 2014-2015					
Aspects	**Potential Negative Impact**	**Objective /Target**	**Responsibility**	**Timescale**	**Status 2014**
Waste Licence	Failure to implement conditions of EPA Licence.	Install A wind sock.	Env. Officer	April 2014	Complete
		Install a Notice board in accordance with Condition 3.6 of the Waste Licence.	Env. Officer	February 2014	Complete
		Submit a report to the EPA detailing the duty and standby capacity of all waste handling and processing equipment as per Condition 3.12 of the licence	Env. Officer	July 2014	Complete
		Install high level alarms on storage devices as per Condition no 3.21of the Waste Licence.	Env. Officer	July 2014	Complete
		Complete Annual Environmental Report for submission to the EPA as per Schedule E of the Licence.	Env. Officer	March 2015	
Air/Noise/Water/ Waste Licence	Failure to implement effective site management and emergency controls may	Submit scaled drawings of the site to the EPA.	Env. Officer	March 2014	Completed
		Control all Emergencies that may arise at the facility.	Env.Director/Env.Manger	Ongoing	Continuous throughout

	cause pollution	Regularly review and update the Emergency Response Procedure.	Env.Manger		operation of Facility.
	Nuisance to Neighbours /Pollution to the Environment	Develop and maintain the Environmental Management System onsite to control environmental operations in accordance with condition 2.2.1 of the waste licence.	Env.Manger	October 2014	Continuous throughout operation Facility.
		Develop procedures for Accident Prevention, and Emergency Response as per Condition 9.1, and 9.2. of the Waste Licence.	Env. Manger / Env. Officer	June 2014	Complete (Review Annually)
		Continually assess the effectiveness of Nuisance Control Procedures to ensure minimal impact on the surrounding environment.	Env.Manger	Ongoing	Continuous throughout operation of Facility.
		Ensure Yard Areas a clean at the end of each working day	Waste Operatives		
	Failure to implement proper monitoring may cause deviation from EMS	Implement the environmental monitoring porgramme specified in the waste licence	Env. Manger / Env. Officer	Ongoing	Continuous throughout operation of Facility
		Investigate any irregular environmental monitoring results or potential breaches of emission limit values.			

	Failure to provide proper training may result in deviation from EMS	Identify staff training requirements and provide relevant training.	Environmental Officer		
Air/Noise/Water	Loss of control may result in negative impacts on the environment.	Ensure all Procedure and records are development, maintained and updated as necessary.	Env. Manger / Env. Officer	Ongoing	Continuous throughout operation of Facility
Air/Noise/Water	Poor lighting may result in errors in the processing and management of waste	Ensure adequate lighting provided throughout the Material Recovery Facility and is clean and maintained on a regular basis.	Environmental Officer	December 2014	Complete
Water/Waste Licence	Potential for pollution from runoff	Install a composite water sampler as per Condition 11.5 of the Licence.		April 2014	Complete
		Submit laboratory procedures in relation to the sampling and testing of the emissions to sewer to the Cork City Council as per Condition 11.5 of the Licence.		April 2014	Complete
		Implement colour coding of drains onsite as per Condition 6.11 of the Waste Licence.		June 2014	Complete

		Complete the Firewater Risk Assessment	Environmental Officer	Dec 2014	Complete
		Ensure all gullies are maintained and regularly cleaned.	Environmental Officer	On Going	Complete - Part of Weekly Check
		Undertake bund and pipeline Integrity Testing as per Condition 6.11 of the Waste Licence.	Environmental Officer	October 2014	Due to be completed in Dec 2014
	mismanagement of water consumption	Measure water consumption from recycled water being used on-site by installing monitoring systems such as a flow meter.	Environmental Officer	2015	2015
	Mismanagement of liquid effluents may cause contamination of surface waters or groundwater; affect flora/fauna, food chain, or human health; cause soil contamination; and result fines and violations.	Onsite effluent is sent to Cork City Councils Sewer for treatment. Ensure water samples are recorded at surface and effluent monitoring locations to ensure there is no contamination.	Environmental Officer	Ongoing	Continuous throughout operation of Facility.
		Ensure the oil separator is in good working order reduce potential for water contamination.	Environmental Officer	Ongoing	High level Alarm in Place as per conditions 3.21 & 3.22 - Continuous throughout operation of

					Facility.
		Ensure bunded structures are integrity tested to ensure they are intact.	Environmental Officer	Dec 2014	Complete
	Excessive water consumption may deplete water as a resource	Energy efficiency audit of the facility are undertaken with the aim of reducing consumption.	Environmental Manager/Environmental Officer	Dec 2014	Complete
Waste/Waste Licence	Mismanagement of mixed wastes may: cause soil and/or water contamination; affect flora/fauna or human health; affect landscape and natural beauty; result fines and violations.	Develop waste recovery throughput and targets for improvements.	Env. Manger / Env. Officer	Ongoing	Reviewed Annually.
		Maintain and update on a monthly basis a Waste Management Record as per Condition 11.12 of the Licence.	Env. Manger / Env. Officer	Ongoing	Reviewed Annually.
		As per Condition 11.12 of the Licence. Prepare a report on waste recovery options for Annual Environmental Report. This must as a minimum, include the following: (i) the recovery of metals; (ii) the recovery of construction and demolition derived waste materials; (iii) the recovery of bio-waste (including contribution of facility to the pre-	Env. Manger / Env. Officer	March 2015	

		treatment targets in the EU Landfill Directive); (iv) the separation and recovery of other recyclable materials.			
		Assess waste acceptance procedures to ensure environmental controls are in place at all times and amend where necessary.	Env. Manger / Env. Officer	Ongoing	Procedure in place to be reviewed annually
		Communicate with customers regarding the items that are not accepted in incoming waste streams.	Env. Manger / Env. Officer & WB Staff	Dec 2012	Pre Waste Profiling Sheet in place for new customers
	Failure to implement effective waste processing in line with legal requirements.	Cease to accept MSW and separately collected bio-waste at the facility unless all appropriate infrastructure is installed and agreed with the EPA.	Env. Manger / Env. Officer & WB Staff	June 2015	SEW Submitted to EPA in Nov 2014
Atmospheric Emissions/IPPC	Failure to implement conditions of EPA Licence.	Ensure the Timber shredding area is enclosed to eliminate dust emissions as per Condition 3.25.1 of the Waste Licence.	Env. Manger / Env.	January 2015	Complete

Atmospheric Emissions	Mismanagement of airborne emissions may: cause exposures to on-site and off-site residents; contribute to global warming; and result fines and violations.	Develop and submit to the EPA a test programme for abatement equipment for odour/dust emissions as per Condition 6.1.1 of the Licence.	Env. Manger / Env. Officer	March 2016	Negative air pressure system to be complete by June 2015. report to be submitted within 9 months.
		Install an odour abatement system at the facility to include a negative air pressure system.	Env.Director/Env.Manger	June 2015	SEW submitted to agency in Nov 2014
		Install a negative air pressure system. Submit a report to the EPA on the effectiveness of the negative air pressure system.	Env.Director/Env.Manger & Officer	March 2016	SEW submitted to agency in Nov 2014
		Install dust curtains or fast acting roller shutter doors as per Condition 3.13.1 of the Waste Licence.	Env.Director/Env.Manger & Officer	January 2015	Complete
	Failure to implement adequate fire detection may result in a fire.	To reduce the risk of fire from the facility, obtain proposals on how to improve current detection systems.	Environmental Manager	June 2015	
Sensitive Species And Sensitive Habitats	Operations may damage or disturb: flora; endangered species;	Plant trees to screen and reduce noise generation, and buffer the development from the surrounding environs.	Env. Mgr/Env. Officer	Oct 2014	Trees planted in Southern Boundary Nov

	water flow.				2014
		Ensure the programmed for the control and eradication of vermin and fly infestations is maintained.	Env. Mgr/Env. Officer	June 2014	Complete June 2014. Outside Contractor used since Oct. Daily Checks in place since June 2014
Environmental Noise	May exceed Environmental Protection Agency (EPA) Waste Licence Limits,	Planting of trees, to visually screen and buffer noise from the facility.	Env. Mgr/Env. Officer	Oct 2014	Trees planted in Southern Boundary Nov 2014
	May cause community concern.	Completion of Noise survey to ensure compliance with the EPA noise limits and implement mitigation measures where non compliances occur.	Env. Mgr/Env. Officer	Dec 2014	Complete Annually throughout operation of Facility.
Power Consumption	Excessive power consumption may: deplete natural resources; contribute to greenhouse gas emissions; cause environmental impacts at location of power generation.	Undertake an Energy Efficiency Audit of the Facility.	Environmental Manager/ Environmental Officer	Dec 2014	Complete

Appendix C

Procedures on-site

Procedure Code	Procedure Title	Summary
CCR EP 001	Control of Environmental Records	This procedure covers the environmental records generated their retention period, protection, location and retrieval.
CCR EP 002	Environmental Monitoring	The purpose of this procedure describes the method for monitoring and measuring key characteristics of CCR's operations that can have a significant environmental impact.
CCR EP 003	Setting Objectives and Targets	The purpose of this procedure is to provide guidance for setting objectives and targets for the EMS. This are set on an annual basis.
CCR EP010	Environmental Communications Procedure	This procedure sets out how to receive and respond to communications from outside parties.
CCR EP014	Environmental Duties On-Site	This procedure outlines duties to be carried out by staff (Inc. agency workers) so as to comply at all times with the EPA licence.
CCR EP 004	Spill Clean Up Procedure	The purpose of procedure is to ensure any oils, lubricants or any other chemical spills are cleaned up appropriately as they may cause a significant environmental impact.

Procedure Code Cont.	Procedure Title Cont.	Summary Cont.
CCR EP 005	Waste Profiling Procedure	The purpose of this procedure is to ensure that where required waste arriving on site, waste shall be accepted at the facility only from known customers or new customers subject to initial waste profiling and waste characterisation off-site.
CCR EP 006	Environmental Management Review	The purpose of this procedure is to provide the process of undertaking an annual management review of the Environmental Management System to ensure its continual suitability, adequacy and effectiveness, and to provide a mechanism for reporting on environmental performance.
CCR EP 007	Housekeeping Procedure	The purpose of this procedure is to ensure all staff maintains the facility so as not to cause any negative influence on the environment.
CCR EP 008	Sampling & Testing Emissions Procedure	This procedure highlights the steps involved so that emissions to the sewer are monitored, sampled and analysed in compliance with the waste licence & Cork City Council Effluent Discharge Licence.
CCR EP 009	Accident Prevention & Emergency Response Procedure	The purpose of this document is to set out the procedure to be followed in the event of an emergency at CCR recycling to ensure the safety of all persons within the facility.

Procedure Code Cont.	Procedure Title Cont.	Summary Cont.
CCR EP 011	Waste Acceptance Procedure	The purpose of this procedure is to ensure that waste accepted at the site for treatment complies with the conditions outlined in the Waste Licence and any hazardous waste is identified and rejected or quarantined as appropriate.
CCR EP 0012	Operational Control Purchasing and Subcontractor Procedure	The purpose of this procedure is to provide a system of instructions is needed for specifying Health & Safety requirements for Operational Issues including the purchase of equipment and services, evaluating new equipment, monitoring suppliers and subcontractors, hazardous materials, Hazardous tasks and safe plant and equipment maintenance.
CCR EP 0013	Handling, Storage & Transfer of gas cylinders	CCR complies with the following guidance to ensure that any transportable gas container (gas cylinder) received are not subjected to any processing or disposal operations until it has been established that the gas cylinder is in a safe condition and that they have a legal right to do so.

Appendix D

Bund Testing Reports & Bund Test Certificates

Country Clean Recycling

Bund Integrity Inspections

Churchfield Ind. Est, John F. Connolly Road, Cork.

EPA Waste Licence Reg. W0257-01

Prepared by

DixonBrosnan

noise & ecology specialists

dixonbrosnan.com

DixonBrosnan

noise & ecology specialists

dixonbrosnan.com

Project		
	Bund Integrity Inspections	
Client	Country Clean Recycling	
Project no	No pages	Client reference
2488	1	Country Clean Recycling

v011113

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Tel 086 813 1195 | damian@dixonbrosnan.com | www.dixonbrosnan.com

Contents

Attachments

1 Introduction

Dixon Brosnan was commissioned by Country Clean Recycling Ltd. to undertake bund integrity testing of three bunds located at the Waste Transfer Station at Churchfield Industrial Estate, John F. Connolly Road, Cork.

The inspection was undertaken in order to ensure compliance with the Condition 6.9 of the facilities Waste Licence (W0257-01):

> *The integrity and water tightness of all the bunding structures, tanks and containers and their resistance to penetration by water or other materials stored therein shall be tested and demonstrated by the licensee prior to use and thereafter at least once every three years. This testing shall be carried out in accordance with any guidance published by the Agency.*

The bund integrity inspection comprised a visual site inspection of the bunds and a 24-hour hydrostatic test to ensure that there integrity was suitable.

There are four bunded areas which were to be assessed as part of the inspection. These included the leachate sump located within the Materials Recovery Facility, oil bund, and two yard sumps located near the timber shredder, and weighbridge.

2 Methodology

The following describes the methodology used to assess the integrity of the bunds.

The bund integrity tests were performed in accordance with the Environmental Protection Agency (EPA) has issued guidelines '*The Storage and Transfer of Materials for Scheduled Activities'* (2004) which provides guidance for the inspection and testing of bund structures.

The main guidelines are:

- The sealed surface providing the retention must be impermeable to the liquid being retained. This applies also to any connecting elements, such as pipes, penetrating the structure, the sealing of which must provide the same level of retention as the bund itself;
- There must be no adverse chemical reaction that could occur between different liquids in a bund that would impact on the integrity of the bund or the safety of personnel in its vicinity;
- In general bund walls should not exceed 1.5 m in height so that:
  - Fire-fighting operations are not hindered
  - Egress from a bunded area in event of an emergency is relatively easy.
  - Natural ventilation of the bunded area is encouraged.
- It is important that, where practicable, pumps, valves, couplings, delivery nozzles and other items associated with the operation of a tank are located inside the bund, although health and safety implications must be taken into account where pumps and other electrical equipment operate in bunds where flammable vapours may collect.
- Items not connected with the operation of the tanks should not be located within the bunded area;
- The overflow vent from a storage tank being overfilled should be contained within the bund;
- It is strongly recommended that all pipe work leading to or from tanks within a bund is routed over the top of the bund in order to avoid the need to breach the walls;
- Bunds may be filled with liquid in event of a spillage or may be deliberately filled with liquid during testing; electrical equipment should therefore ideally be placed above the maximum liquid height or designed for submersion;
- Bulk chemical storage bunds should be designed to contain 110% of the capacity of the largest storage vessel located within the bund;

- Bund design should take into account the capture of spigot flow from ruptured tanks;
- Valved drainage from bunds should be avoided;
- Individual bunding is preferred to common bunding;

Where two or more tanks are installed within the same bund, the recommended capacity of the bund is the greater of:

- 110% of the capacity of the largest tank within the bund, or
- 25% of the total capacity of all of the tanks within the bund, except

where tanks are hydraulically linked in which case they should be treated as if they were a single tank.

2.1 Site Inspection

A preliminary site visit was arranged on the 10th of December 2014 to perform a visual inspection of the bunds and to ensure the bunds were filled for a 24-hour period. Two of the bunds (leachate tanks) were both roofed and hence protected from rainwater ingress. The (other tank) was covered for the 24 hour period to ensure no rain water entered the tank.

Before the bunds were filled with water to test for water tightness and any possible leaks, the following potential defects were looked for around each of the bunds:

- ***Holes for Pipes*:** All holes in bunds to facilitate pipes have been properly plugged.
- ***Electrical Equipment*:** None of the bund on site have electric equipment devices inside the bund that need to be raised for a bund integrity assessment.
- ***Tank Retention*:** Care was taken that any tanks partially emerged by the test water would not float. To guard against this any tank that would be partially submerged during the test was filled.
- ***Other Defects:*** All debris and spillages were removed from bunds before the bund integrity assessment.

The effective capacities of the bunds, where applicable, were also calculated at this stage. Weather conditions during the day of testing were calm, and day with little rain. All the bunding integrity tests were carried out simultaneously over a twenty four hour period. Containers were placed near the bunds to determine the evaporation rate of the water.

3 Result of Integrity Tests

All bunds tested were found to be without defects. No leakage was observed from any of the bunds and sumps tested. Allowing for the ingress of rainfall there was no drop in water level recorded across the site. After the test was complete all bunds were emptied. The test showed that the walls were impervious to water and could adequately retain the required volume without danger of leakage or collapse. Therefore the bunds on-site conform to Condition 6.9 of the Waste licence (W0257-01).

A summary of the findings of the visual and hydrostatic tests are provided below. A copy of the test certificates are appended as Attachment A of the report.

Summary of results

Bund	Test Date	Status	Comment
Sump No.1 Wheel Wash Sump	10/12/14-11/12/14	Passed	Reinforced Concrete in good condition.
Sump No.2 Top Shed Leachate Sump	10/12/14-11/12/14	Passed	Reinforced Concrete in good condition.
Sump No.3 Bottom Shed Leachate Sump.	10/12/14-11/12/14	Passed	Reinforced Concrete in good condition.

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Hydrostatic Sump Test- Bottom Shed Sump

Company: Country Clean Recycling	**Location:** Located internally within the bottom shed of the materials recovery facility.
Date: 11/12/2014	**Sump Type –** Concrete
Sump Ref. No.: Top shed leached sump	**Description**: The water from the sump drains via an overflow to the Cork County Council Sewer.
Sump Dimensions: **L**190cm x **W**98cm x **D**92cm	**Sump Materials of Construction:** Sump constructed from cast concrete
Sump Lining Material: none- Cast Concrete Design	**Weather conditions-**The sump is housed internally within the top shed and not influenced by the weather.

Deemed practicable/safe to conduct hydrostatic test:

Yes test can be carried out below the level of the overflow pipe to assess retention.

Date of Hydrostatic test: 10/12/14-11/12/14

Description and results of Hydrostatic Test:

Water was filled to a depth of 680mm just below the overflow pipe on the 10th of December and allowed to settle for a 24 hour period. The Sump test was started at 12:00 on the 10/12/2014 and finished at 12:00 on the 11/12/14.

Test interval (hrs)	Average Depth below the sump to water
0-1	68cm
1-2	68cm
2-3	68cm
3-4	68cm
4-5	68cm
5-6	68cm

Pass √

Date of Visual Inspection: Visual inspection was undertaken on the 10/12/2014

Description and Results of Visual Inspection:

All joints and seals were visually intact. There were no cracks or defects seen throughout the sump. The sump is of sound structural integrity.

Recommendations: Re-test in three years and undertake regular visual assessments.

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COUNTRYCLEAN RECYCLING

Hydrostatic Sump Test- Top Shed Sump

Company: Country Clean Recycling	**Location:** Located internally within the top shed of the materials recovery facility.
Date: 11/12/2014	**Sump Type –** Concrete
Sump Ref. No.: Top shed leached sump	**Description**: The water from the sump drains via an overflow to the Cork County Council Sewer.
Sump Dimensions: **L**778cm x **W**131cm x **D**225cm	**Sump Materials of Construction:** Sump constructed from cast concrete
Sump Lining Material: none- Cast Concrete Design	**Weather conditions-**The sump is housed internally within the top shed and not influenced by the weather.

Deemed practicable/safe to conduct hydrostatic test:

Yes test can be carried out below the level of the overflow pipe to assess retention.

Date of Hydrostatic test: 10/12/14-11/12/14

Description and results of Hydrostatic Test:

Water was filled to a depth of 1730mm just below the overflow pipe on the 10th of December and allowed to settle for a 24 hour period. The Sump test was started at 12:00 on the 10/12/2014 and finished at 12:00 on the 11/12/14.

Test interval (hrs)	Average Depth below the sump to water
0-1	173cm
1-2	173cm
2-3	173cm
3-4	173cm
4-5	173cm
5-6	173cm

Pass √

Date of Visual Inspection: Visual inspection was undertaken on the 10/12/2014

Description and Results of Visual Inspection:

All joints and seals were visually intact. There were no cracks or defects seen throughout the sump. The sump is of sound structural integrity.

Recommendations: Re-test in three years and undertake regular visual assessments.

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Hydrostatic Sump Test- Wheel Wash Sump

Company: Country Clean Recycling	**Location:** Outside of the Materials Recovery at the southeast corner of the site.
Date: 11/12/2014	**Sump Type –** Concrete
Sump Ref. No.: Wheel Wash Sump	**Description**: The water from the sump drains via an overflow to the Cork County Council Sewer.
Sump Dimensions: **L**494cm x **W**159cm x **D**120cm	**Sump Materials of Construction:** Sump constructed from cast concrete
Sump Lining Material: none- Cast Concrete Design	**Weather conditions-** N/A

Deemed practicable/safe to conduct hydrostatic test:

Yes test can be carried out below the level of the overflow pipe to assess retention.

Date of Hydrostatic test: 10/12/14-11/12/14

Description and results of Hydrostatic Test:

Water was filled to a depth of 900mm just below the overflow pipe on the 10th of December and allowed to settle for a 24 hour period. The Sump test was started at 12:00 on the 10/12/2014 and finished at 12:00 on the 11/12/14.

Test interval (hrs)	Average Depth below the sump to water
0-1	90cm
1-2	90cm
2-3	90cm
3-4	90cm
4-5	90cm
5-6	90cm

Pass √

Date of Visual Inspection: Visual inspection was undertaken on the 10/12/2014

Description and Results of Visual Inspection:

All joints and seals were visually intact. There were no cracks or defects seen throughout the sump. The sump is of sound integrity.

Recommendations: Re-test in three Years and undertake regular visual assessments.

Stand Alone Plastic Bund Test Certificates

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Bund Test Certificate

Company:	**Country Clean**
Site:	**Churchfield Ind Est, Cork**
Bund Reference No:	**14013**
Model Code:	**2 Drum Spill Pallet**
Bund Dimensions:	**(L) 1310mm x (W) 900mm x (H) 380mm**
New Bund:	**Yes**

Hydrostatic Test Results

Bunds Materials of Construction:	**MDPE**
Bund Lining:	**N/A**
Total Bund Volume:	**230 Litres**
Bund Capacity Tested:	**230 Litres**
110% of Vol. of Largest Vessel:	**220 Litres**
25% of Total Storage Volume:	**N/A**
Date of Test:	**01/12/2014** **Pass: YES**
Re-Test Date:	**30/11/2017**
Comments/Recommendations:	_____

Readings	Time	Level (mm)
1.	7:30 AM	380
2.	13:45 PM	380

Signed: G. Griffin	**Date:** 01/12/2014

Company Signature: Ken Kelly

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Fax: 061 327885
www.chemstore.ie
sales@chemstore.ie

Bund Test Certificate

Company:	**Country Clean Recycling.**
Site:	**Churchfield Ind Est, Cork.**
Bund Reference No:	**13925**
Model Code:	**N1 Single IBC Spill Pallet**
Bund Dimensions:	**1,865mm (L) x 1,600mm (W) x 770mm (H)**
New Bund:	**YES**

Hydrostatic Test Results

Bunds Materials of Construction:	**MDPE**
Bund Lining:	**N/A**
Total Bund Volume:	**1130 L**
Bund Capacity Tested:	**1130 L**
110% of Vol. of Largest Vessel:	**1000 L**
25% of Total Storage Volume:	**N/A**
Date of Test:	**16/10/2014** **Pass: YES**
Re-Test Date:	**15/10/2017**

Comments/Recommendations:

Readings	Time	Level (mm)
1.	09:30	770
2.	15:30	770

Signed: G. Griffin	**Date:** 16/10/2014

Company Signature: Ken Kelly

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Bund Test Certificate

Company:	**Country Clean Recycling.**
Site:	**Churchfield Ind Est, Cork.**
Bund Reference No:	**13926**
Model Code:	**N1 Single IBC Spill Pallet**
Bund Dimensions:	**1,865mm (L) x 1,600mm (W) x 770mm (H)**
New Bund:	**YES**

Hydrostatic Test Results

Bunds Materials of Construction:	**MDPE**
Bund Lining:	**N/A**
Total Bund Volume:	**1130 L**
Bund Capacity Tested:	**1130 L**
110% of Vol. of Largest Vessel:	**1000 L**
25% of Total Storage Volume:	**N/A**
Date of Test:	**16/10/2014** **Pass: YES**
Re-Test Date:	**15/10/2017**

Comments/Recommendations:

Readings	Time	Level (mm)
1.	09:30	770
2.	15:30	770

Signed: G. Griffin	**Date:** 16/10/2014

Company Signature: Ken Kelly

Do NOT remove Bund Test sticker from tested product as this is reference for future testing

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Directors: Neil O'Carroll, David O'Carroll. Registered No. 200909.

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Bund Test Certificate

Company:	**Country Clean Recycling**
Site:	**Churchfield Ind Est, Cork.**
Bund Reference No:	**13927**
Model Code:	**CH4 – 4 Drum Spill Pallet**
Bund Dimensions:	**(L) 1380mm x (W) 1290mm x (H) 280mm**
New Bund:	**YES**

Hydrostatic Test Results

Bunds Materials of Construction:	**Polyethylene**
Bund Lining:	**N/A**
Total Bund Volume:	**250 L**
Bund Capacity Tested:	**250 L**
110% of Vol. of Largest Vessel:	**220 L**
25% of Total Storage Volume:	
Date of Test:	**16/10/2014** **Pass: YES**
Re-Test Date:	**15/10/2017**
Comments/Recommendations:	

Readings	Time	Level (mm)
1.	9:10	400
2.	15:20	400

Signed: G. Griffin	**Date:** 16/10/2014

Company Signature: Ken Kelly

In Accordance with Chapter 6 of Environmental Protection Agency IPPC Guidance Note, June 2004

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Rev 2

Appendix E

Pollutant Release and Transfer Register

Environmental Protection Agency

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.18

REFERENCE YEAR	2014

1. FACILITY IDENTIFICATION

Parent Company Name	Country Clean Recycling Limited
Facility Name	Country Clean Recycling Limited
PRTR Identification Number	W0257
Licence Number	W0257-01

Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Churchfield Industrial Estate
Address 2	John F. Connolly Rd
Address 3	
Address 4	Cork
	Cork
Country	Ireland
Coordinates of Location	-8.49308905351.91391128
River Basin District	IESW
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	Flor Crowley
AER Returns Contact Email Address	flor@corkminiskips.ie
AER Returns Contact Position	EHS Officer
AER Returns Contact Telephone Number	021-4300130
AER Returns Contact Mobile Phone Number	086 0265275
AER Returns Contact Fax Number	021 4308031
Production Volume	0.0
Production Volume Units	0
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	140
User Feedback/Comments	
Web Address	www.countryclean.ie

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
50.1	General

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

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

4. WASTE IMPORTED/ACCEPTED ONTO SITE

Guidance on waste imported/accepted onto site

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	

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

4.1 RELEASES TO AIR Link to previous years emissions data #VALUE!

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)

RELEASES TO AIR					Please enter all quantities in this section in KGs							
POLLUTANT		METHOD								QUANTITY		
			Method Used									
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	Emission Point 2	Emission Point 3	Emission Point 4	Emission Point 5	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
210	**Dust**	M	ALT	ET2811	225.26	147.37	723.59	288.19	1008.73	2393.14	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T(total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill: Country Clean Recycling Limited

Please enter summary data on the quantities of methane flared and / or utilised			Method Used			
	T (Total) kg/Year	**M/C/E**	**Method Code**	**Designation or Description**	**Facility Total Capacity m3 per hour**	
Total estimated methane generation (as per site model)	0.0				N/A	
Methane flared	0.0				0.0	(Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0	(Total Utilising Capacity)
Net methane emission (as reported in Section A above)	0.0				N/A	

4.2 RELEASES TO WATERS

Link to previous years emissions data

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this only concerns Releases from your facility

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT					QUANTITY			
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT					QUANTITY			
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION C : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT					QUANTITY			
			Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION A : PRTR POLLUTANTS

RELEASES TO LAND					Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			QUANTITY		
			Method Used				
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
					0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

RELEASES TO LAND					Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			QUANTITY		
			Method Used				
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
					0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
18	Cadmium and compounds (as Cd)	M	ALT	Method 3125B AWWA/APHA, 20th Ed., 1999	0.000045	0.000045	0.0	0.0
21	Mercury and compounds (as Hg)	M	ALT	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN0 580 38924 3	0.0000045	0.0000045	0.0	0.0
19	Chromium and compounds (as Cr)	M	ALT	Standard Methods for the examination of waters and wastewaters 16th Edition, ALPHA, Washington DC, USA. ISBN 0-87553-131-8.	1.011	1.011	0.0	0.0
23	Lead and compounds (as Pb)	M	ALT	Method 3125B, AWWA/APHA, 20th Ed., 1999	0.00066	0.00066	0.0	0.0
20	Copper and compounds (as Cu)	M	ALT	Method 3125B, AWWA/APHA, 20th Ed., 1999	0.0014	0.0014	0.0	0.0
22	Nickel and compounds (as Ni)	M	ALT	Method 3125B, AWWA/APHA, 20th Ed., 1999	0.008	0.008	0.0	0.0
13	Total phosphorus	M	ALT	Standard Methods for the examination of waters and wastewaters 16th Edition, ALPHA, Washington DC, USA. ISBN 0-87553-131-8.	1.51	1.51	0.0	0.0
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
238	Ammonia (as N)	M	ALT	BS 2690: Part 7:1968 / BS 6068: Part2.11:1984	5.17	5.17	0.0	0.0
303	BOD	M	ALT	MEWAM BOD5 2nd Ed.HMSO 1988 / Method 5210B, AWWA/APHA, 20th Ed., 1999; SCA Blue Book 130	200.53	200.53	0.0	0.0
306	COD	M	ALT	ISO 6060-1989	318.72	318.72	0.0	0.0
240	Suspended Solids	M	ALT	Method 2540D, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part120 1981;BS EN 872	32.29	32.29	0.0	0.0
314	Fats, Oils and Greases	M	ALT	The Determination of Hydrocarbon Oils in Waters by Solvent Extraction, Infra red Absorption and Gravimetry 1983, HMSO, London	4.219	4.219	0.0	0.0
308	Detergents (as MBAS)	M	ALT	Standard Methods for the Examination of Water and Wastewater. 20th Edition. 1998	0.16	0.16	0.0	0.0
327	Nitrate (as N)	M	ALT	EPA Methods 325.1 & 325.2,	0.087	0.087	0.0	0.0
357	Iron	M	ALT	US EPA Method 6010B	0.85	0.85	0.0	0.0
355	**Aluminium**	M	ALT	Method 3125B, AWWA/APHA, 20th Ed., 1999	0.013	0.013	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

Please enter all quantities on this sheet in Tonnes 0

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Haz Waste :Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	20 01 11	No	11.34	Clothes	R12	M	Weighed	Offsite in Ireland	Tectile Recycling,WPR014	Glen Abbey Complex,Belgrad Road,Tallagh,Dublin 24,Ireland		
Within the Country	15 01 01	No	104.26	paper and cardboard packaging	R13	M	Weighed	Offsite in Ireland	Cork Recycling Company,WFP-CK-09-0022-02	Lehenaghmore,Togher,Cork,,Ireland		
Within the Country	15 01 07	No	2679.74	glass packaging	R5	M	Weighed	Offsite in Ireland	Rehab Glassco Ltd,W0279-01	Unit 4 Oberstown Ind Park,Caragh Road,Nass,Co. Kildare,Ireland		
Within the Country	16 01 03	No	20.2	end-of-life tyres	R5	M	Weighed	Offsite in Ireland	Crossmore Transport Ltd,WFP-CK-11-0099-02	Carrigdownane Upper,Rockmills,Kildorrery ,Co. Cork,Ireland		
Within the Country	16 05 05	No	3.32	gases in pressure containers other than those mentioned in 16 05 04	R13	M	Weighed	Offsite in Ireland	Calor Teoranta,N/A	Long Mile Toad,,,Dublin 23,,,Ireland		
Within the Country	17 04 11	No	16.91	cables other than those mentioned in 17 04 10	R4	M	Weighed	Offsite in Ireland	National Recycling Company Ltd,10/01/2015	John F. Connolly Rd,Churchfield,Cork,,,Ireland		
Within the Country	17 05 04	No	4113.21	soil and stones other than those mentioned in 17 05 03	R10	M	Weighed	Offsite in Ireland	Mallow Contracts Ltd,WFP-CK-10-0082-02	Island,Bumfort,Mallow,Co. Cork,Ireland		
Within the Country	19 12 02	No	830.38	ferrous metal	R4	M	Weighed	Offsite in Ireland	Cork Metal Company Ltd,WFP-CK-10-0067-02	Dublin Hill,,Cork,,,Ireland		
Within the Country	19 12 02	No	197.42	ferrous metal	R4	M	Weighed	Offsite in Ireland	Midland Scrap Metal Co. Ltd,WFP-TN-11-0003-02	Annagh,,Birr,Co. Tipperary,Ireland		
Within the Country	19 12 02	No	1.06	ferrous metal	R4	M	Weighed	Offsite in Ireland	National Recycling Company Ltd,10/01/2015	John F. Connolly Rd,Churchfield,Cork,,,Ireland		
Within the Country	19 12 07	No	376.02	wood other than that mentioned in 19 12 06	R3	M	Weighed	Offsite in Ireland	Eirebloc Ltd,WFP-CK-13-0127-01	Dunisky,Lissarda,Co. Cork,,,Ireland		
Within the Country	19 12 07	No	422.16	wood other than that mentioned in 19 12 06	R3	M	Weighed	Offsite in Ireland	Greenline Services ,N/A	Greenline Services ,Castletownroche,Co. Cork,,,Ireland		
Within the Country	19 12 07	No	809.58	wood other than that mentioned in 19 12 06	R3	M	Weighed	Offsite in Ireland	Milltown Composting Systems Ltd ,W0270-01	Milltownmore,Fethard,County Tipperary,,,Ireland		
Within the Country	19 12 12	No	2303.14	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R10	M	Weighed	Offsite in Ireland	Limerick County Council,W0017-04	Gortadroma Landfill,Gortadroma,Ballyhahill,Co. Limerick ,Ireland		
Within the Country	19 12 07	No	475.18	wood other than that mentioned in 19 12 06	R10	M	Weighed	Offsite in Ireland	Bord Na Mona Plc,W0201-03	Drehid Waste Management Facility ,Carbury ,,,Co. Kildare,Ireland		
Within the Country	19 12 09	No	2980.82	minerals (for example sand, stones)	R10	M	Weighed	Offsite in Ireland	Carlow County Council ,W0025-03	Powerstown Landfill,Powerstown,,,Co. Carlow ,Ireland		
Within the Country	19 12 12	No	399.06	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R3	M	Weighed	Offsite in Ireland	OD Agri Ltd,WFP-TS-10-0002-04	Ballyboe,Ballypatrick,Clonmel ,Co. Tipperary,Ireland		
Within the Country	20 01 02	No	23.6	glass	R5	M	Weighed	Offsite in Ireland	Midland Scrap Metal Co. Ltd,WFP-TN-11-0003-02	Annagh,,Birr,Co. Tipperary,Ireland		
Within the Country	20 01 02	No	29.44	glass	R5	M	Weighed	Offsite in Ireland	John Gannon Concrete Ltd,WFP-WM-2009-0007-01	Split Hill Quarry,Harlewood,Kilbeggan ,Co. Westmeath,Ireland		
Within the Country	20 01 08	No	199.75	biodegradable kitchen and canteen waste	R3	M	Weighed	Offsite in Ireland	Brúscar Bhearna Teoranta,W0106-01	Carrowbrowne,Headford Road,Co. Galway,,,Ireland		
Within the Country	20 01 08	No	1066.39	biodegradable kitchen and canteen waste	R3	M	Weighed	Offsite in Ireland	McDonnell Farms Biogas Ltd,WFP-LK-2011-50-R2-T1	Dunmoylan,,,Shanagolden,Co. Limerick,Ireland		
Within the Country	20 01 36	No	0.77	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R4	M	Weighed	Offsite in Ireland	National Recycling Company Ltd,10/01/2015	John F. Connolly Rd,Churchfield,Cork,,,Ireland		
Within the Country	20 01 38	No	34.1	wood other than that mentioned in 20 01 37	R12	M	Weighed	Offsite in Ireland	Midleton Skip Hire Ltd,WFP-CK-0052-01	Knockgriffin,,Midleton,Co. Cork,Ireland		
Within the Country	20 03 01	No	21515.56	mixed municipal waste	R12	M	Weighed	Offsite in Ireland	Killarney Waste Disposal Ltd,W0217-01	Aughacurreen,,,Killarney,Co. Kerry,Ireland		
Within the Country	20 03 01	No	3823.3	mixed municipal waste	D1	M	Weighed	Offsite in Ireland	Bord Na Mona Plc,W0201-03	Drehid Waste Management Facility ,Carbury ,,,Co. Kildare,Ireland		
Within the Country	20 03 01	No	2912.62	mixed municipal waste	R12	M	Weighed	Offsite in Ireland	Glanway Limited,WFP-KK-14-0002-01	Units 4 & 5 Cap Store,Belview Port,Gorteens Silvervale,Co. Kilkenny,Ireland		
Within the Country	20 03 01	No	1464.9	mixed municipal waste	D1	M	Weighed	Offsite in Ireland	Limerick County Council,W0017-04	Gortadroma Landfill,Gortadroma,Ballyhahill,Co. Limerick ,Ireland		
Within the Country	20 03 01	No	283.82	mixed municipal waste	R12	M	Weighed	Offsite in Ireland	Starrus Eco Holding Ltd (T/A Greenstar) ,W0136-03	Sarsfieldcourt Industrial Est,Sarsfieldcourt,Glanmire, Co. Cork,Ireland		
Within the Country	20 03 01	No	1067.06	mixed municipal waste	R1	M	Weighed	Offsite in Ireland	Indaver Ireland,W0167-02	Carranstown,Duleek,,,Co Meath,Ireland		
Within the Country	20 03 01	No	4388.14	mixed municipal waste	R12	M	Weighed	Offsite in Ireland	O Toole Composting Ltd,WFP-CW-10-003-01	Ballintrane,,,Fenagh,Co. Carlow,Ireland		
Within the Country	20 03 01	No	2526.14	mixed municipal waste	D1	M	Weighed	Offsite in Ireland	Carlow County Council ,W0025-03	Powerstown Landfill,Powerstown,,,Co. Carlow ,Ireland		
Within the Country	20 03 01	No	592.22	mixed municipal waste	R12	M	Weighed	Offsite in Ireland	Starrus Eco Holding Ltd,W0177-03	Carrignard,Six Cross Roads Buiness Parl,Waterford City ,Co. Waterford,Ireland		
To Other Countries	20 03 01	No	35983.26	mixed municipal waste	R1	M	Weighed	Abroad	Indaver Ireland Limited (Broker),IRE/AG/040/15	4th Floor Block 1 West Pier Buiness Campus,Old Dunleary Road,Dun Laoghaire,Co. Dublin,Ireland		
Within the Country	20 03 07	No	102.94	bulky waste	D13	M	Weighed	Offsite in Ireland	Midleton Skip Hire Ltd,WFP-CK-0052-01	Knockgriffin,,Midleton,Co. Cork,Ireland		
Within the Country	20 03 07	No	255.9	bulky waste	D1	M	Weighed	Offsite in Ireland	Bord Na Mona Plc,W0201-03	Drehid Waste Management Facility ,Carbury ,,,Co. Kildare,Ireland		
Within the Country	20 03 07	No	1424.94	bulky waste	D1	M	Weighed	Offsite in Ireland	Limerick County Council,W0017-04	Gortadroma Landfill,Gortadroma,Ballyhahill,Co. Limerick ,Ireland		
Within the Country	15 01 03	No	0.4	wooden packaging	R3	M	Weighed	Offsite in Ireland	CHEP Pallets Ltd ,N/A	Musgrave Supervalu\Centre CDC,Tramore Road,Cork,Cork,Ireland		
Within the Country	17 05 04	No	1312.68	soil and stones other than those mentioned in 17 05 03	R10	M	Weighed	Offsite in Ireland	Various Customers,N/A	Various Customers,Cork,,,Cork,Ireland		
Within the Country	19 12 03	No	10.03	non-ferrous metal -Aluminium	R4	M	Weighed	Offsite in Ireland	National Recycling Company Ltd,10/01/2015	John F. Connolly Rd,Churchfield,Cork,,,Ireland		
Within the Country	19 12 03	No	0.19	non-ferrous metal - Brass	R4	M	Weighed	Offsite in Ireland	National Recycling Company Ltd,10/01/2015	John F. Connolly Rd,Churchfield,Cork,,,Ireland		
Within the Country	19 12 03	No	0.42	non-ferrous metal - Copper	R4	M	Weighed	Offsite in Ireland	National Recycling Company Ltd,10/01/2015	John F. Connolly Rd,Churchfield,Cork,,,Ireland		
Within the Country	20 02 01	No	5.64	biodegradable waste	R3	M	Weighed	Offsite in Ireland	Cork City Council ,W0012-03	Kinsale Road Landfill,Inchisansfield,Cork,Co. Cork,Ireland		
Within the Country	20 03 07	No	2666.2	bulky waste	D1	M	Weighed	Offsite in Ireland	Carlow County Council ,W0025-03	Powerstown Landfill,Powerstown,,,Co. Carlow ,Ireland		
Within the Country	20 01 33	Yes	6.82	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries	D4	M	Weighed	Offsite in Ireland	Rilta Environmental Ltd.,W0192-03	Block 402 ,,Greenogue Buiness Park,,Rathcoole,,Co. Dublin,,Ireland	Rilta Environmental Ltd,WO192-03,Block 402 Grants Drive,Greenogue Buiness Park,Rathcoole,Co. Dublin,Ireland	Block 402 Grants Drive,Greenogue Buiness Park,Rathcoole,Co. Dublin,Ireland
Within the Country	15 02 02	Yes	0.2	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	R9	M	Weighed	Offsite in Ireland	Enva Environmental Ltd,W0184-01	Clonminam Industrial Estate,,,Portlaoise,Co. Laois,Ireland	Enva Environmental Ltd,W0184-01,Clonminam Industrial Estate,,,Portlaoise,Co. Laois,Ireland	Clonminam Industrial Estate,,,Portlaoise,Co. Laois,Ireland
Within the Country	13 05 07	Yes	42.76	oily water from oil/water separators	D9	M	Weighed	Offsite in Ireland	Rilta Environmental Ltd.,W0192-03	Block 402 ,,Greenogue Buiness Park,,Rathcoole,,Co. Dublin,,Ireland	Rilta Environmental Ltd,WO192-03,Block 402 Grants Drive,Greenogue Buiness Park,Rathcoole,Co. Dublin,Ireland	Block 402 Grants Drive,Greenogue Buiness Park,Rathcoole,Co. Dublin,Ireland
Within the Country	13 02 05	Yes	0.65	mineral-based non-chlorinated engine, gear and lubricating oils	R9	M	Weighed	Offsite in Ireland	Rilta Environmental Ltd.,W0192-03	Block 402 ,,Greenogue Buiness Park,,Rathcoole,,Co. Dublin,,Ireland	Rilta Environmental Ltd,WO192-03,Block 402 Grants Drive,Greenogue Buiness Park,Rathcoole,Co. Dublin,Ireland	Block 402 Grants Drive,Greenogue Buiness Park,Rathcoole,Co. Dublin,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
Link to Waste Guidance