## Annual Environmental Report 2017



# Clean (Irl) Refuse and Recycling Co. T/A Clean Ireland Recycling Ballinagun West Cree

Co. Clare

Grid Ref: R027660 R02702 66004

W0253-01

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#### 1.0 Introduction

This is the 2017 Annual Environmental Report prepared for Clean Ireland Recycling's EPA waste licenced facility in Ballinagun West, Cree, Co.Clare. This report covers the period from the 1<sup>st</sup> January 2017 to the 31<sup>st</sup> of December 2017. This report has been prepared with reference to the EPA AER draft guidance document V3.0 Dec13. The contents of this report are as required in Schedule F of W0253-01:

#### SCHEDULE F: Annual Environmental Report

#### Annual Environmental Report Content Note 1

Reporting Period.

Waste activities carried out at the facility.

Quantity and composition of waste recovered, received and disposed of during the reporting period and each previous year (relevant EWC codes to be used).

Waste recovery report.

Full title and a written summary of any procedures developed by the licensee in the year which relates to the facility operation.

Emissions from the facility.

Waste management record.

Resource consumption summary.

Energy and heat generation summary.

Use of biogas flare and biogas venting summary.

Complaints summary.

Schedule of Environmental Objectives and Targets.

Environmental management programme – report for previous year.

Environmental management programme - proposal for current year.

Pollutant Release and Transfer Register – report for previous year.

Pollutant Release and transfer Register - proposal for current year.

Noise monitoring report summary.

Ambient monitoring summary.

Tank and pipeline testing and inspection report.

Reported incidents summary.

Energy efficiency audit report summary.

Report on the assessment of the efficiency of use of raw materials in processes and the reduction in waste generated.

Report on progress made and proposals being developed to minimise water demand and the volume of trade effluent discharges.

Development/Infrastructural works summary (completed in previous year or prepared for current year).

Reports on financial provision made under this licence, management and staffing structure of the facility, and a programme for public information.

Closure, restoration & aftercare management Plan.

Statement of measures in relation to prevention of environmental damage and remedial actions (Environmental Liabilities).

Environmental Liabilities Risk Assessment Review (every three years or more frequently as dictated by relevant on-site change including financial provisions.

Achievement of compost quality standards.

Destination and uses of compost produced.

Any other items specified by the Agency.

Note 1: Content may be revised subject to the agreement of the Agency.

#### 2.0 Waste Activities 2017

Operations at the facility include the receipt of domestic, commercial, industrial and construction waste, which is sorted and segregated for onward recycling / recovery in accordance with the recycling potential. Waste deemed unsuitable for recycling / recovery is segregated and compacted for disposal off-site.

The main waste types processed at the facility include:

- Mixed residual waste (including compostable waste)
- Dry recyclables (including segregated recyclables)
- Construction and Demolition (C&D) Waste
- Timber waste

The main waste activities on site include:

- Mechanical treatment of mixed recyclable waste
- Mechanical treatment and baling of mixed residual waste
- Mechanical treatment of C&D waste

The facility processes non-hazardous waste only.

Details of the quantities and types of waste accepted onsite in 2017 are included in Appendix A. Details of the quantities and types of waste dispatched from site in 2017 are included in Appendix D as part of the PRTR.

#### 2.1 Waste Recovery Report

Clean Ireland Recycling's facility in Cree makes a significant contribution to the achievement of waste recovery objectives and National and European waste recovery policies. As per condition 11.14 details of the tonnage of metals, C&D waste, biowaste, organic fines and other recyclables are included in the PRTR in Appendix D.

#### 2.1.1 Recovery of Metals

Clean Ireland Recycling provides for the collection of source segregated metals primarily from construction sites and metal packaging from civic amenity sites. Source segregated metals are kept separate from other wastes to ensure maximum recycling potential. Metals are recovered mechanically from mixed C&D and bulky waste skips. Metals are also removed from the residual waste by means of a magnet prior to baling of the waste. All metals are bulked for transport to authorised facilities for further processing.

#### 2.1.2 Recovery of C&D derived waste material

Clean Ireland Recycling provides for the collection of source segregated C&D waste primarily from construction sites. Source segregated C&D waste is kept separate from other wastes to ensure maximum recycling potential. C&D waste streams are also recovered mechanically from mixed C&D skip waste and bulky waste skips. Timber, metals, gypsum and other recyclables are separated from C&D waste for recycling. Mixed C&D waste is separated into separate fractions using a trommel, magnet, picking line, wind shifter etc. C&D fines are dispatched from site for use as landfill cover. Other fractions are bulked onsite prior to being dispatched from site to suitably authorised facilities for further recycling.

#### 2.1.3 Biowaste and Organic fines

Food waste is collected as a source segregated fraction from domestic and commercial customers. The majority of this waste is bulked for transfer through Clean Ireland Recycling's Waste Permitted Facility in Shannon with smaller quantities transferred through the Cree facility. Clean Ireland Recycling encourages all customers to avail of the kerbside food waste collection. Food bins are actively monitored for contamination. Clean Ireland Recycling operates a pricing structure which encourages the source segregation of food waste. All food waste is kept separate and dispatched to authorised anaerobic digestion or composting facilities for further treatment and recovery. Using a mobile trommel, organic fines were removed from the residual waste received onsite prior to baling for export. This process was implemented to improve the calorific value of the baled residual waste for export under TFS to a waste to energy facility. Organic fines are bulked onsite for transfer to an authorised composting facility where the material is stabilised prior to use as landfill cover.

#### 2.1.4 Other recyclable materials

Other recyclables are accepted/collected and transferred through the Cree facility. Recyclables include cardboard, paper, plastics, mixed dry recyclables, WEEE, cartridges, batteries and fluorescent tubes. Source segregated cardboard, paper and plastics are baled onsite and stored prior to dispatch for further processing/recycling. Mixed dry recyclables are bulked prior to dispatch for further segregation, processing and recycling. Recyclable materials are removed from skip waste where possible for recycling.

#### 2.1.5 ELVs and Biogas

No end-of-life vehicles are currently accepted onsite. The proposed biogas production process has not been developed at the facility.

#### 2.2 Waste Management Record

Waste produced from activities onsite is minimal. It includes source segregated recyclables, food and residual waste from the office and canteen. Leachate from the bale storage shed is collected in a bunded tank and dispatched from site as required to an authorised facility for treatment. Details of the quantities are included in the PRTR in Appendix D.

#### 3.0 Procedures

Procedures relating to the facility operation are maintained as part of the company wide ISO certified EQHS integrated management system.

The following procedures were developed or amended in 2017:

Ref	Date	Title
COP 18	27.01.17	Lock up procedure for Cree
CEP 01	23.11.17	Method for Loading 40 foot containers for Paper and OCC
CEP 02	24.11.17	Emergency Response Procedure
CEP 03	24.11.17	Spill/Clean Up Procedure
CEP 04	24.11.17	Fire and Explosion
CEP 10	24.11.17	Site Management Procedure
CEP 20	01.02.17	Waste Handling
CEP 21	01.02.17	Waste Acceptance Procedure
CEP 24	02.02.17	Bale Temperature Procedure
CSP 22	01.02.17	Cree Induction Procedure
CSP 23	01.02.17	Cree Fire Safety Procedure
CSP 24	01.02.17	Hot Works Procedure
CSP 25	01.02.17	Housekeeping Procedure

Details of emissions from the facility are included in the PRTR in Appendix D and monitoring results are included in appendix B.

#### 5.0 Resource Consumption Summary

The following table summarises the resources used onsite in 2017 and 2016.

Resource	Usage 2017	Usage 2016
Electricity	491002kWh	341609kWh
Public Water	236m3	188m3
Well Water	1259m3	1700m3
Woodchip	Ot	6 tonnes
White Diesel	10000 litres	15600 litres
Green Diesel	77206 litres	48554 litres
Heating Oil	3,333 litres	n/a

These resources represent the majority of the raw materials used in the operation of the facility. Improvements have been made in the efficiency of the lighting in use onsite to reduce electricity consumption. All vehicles and equipment are maintained regularly on a scheduled basis as part of the integrated management system. This ensures all machinery and plant is operating efficiently. Older machines are replaced with newer more efficient ones as required.

5.1 Report on progress to minimise water demand and volume of trade effluent discharges.

Water demand: There is rain water harvesting for the supply of fire water onsite and water for the toilets.

Trade effluent: Discharges to the Puraflow water treatment unit are dependent on the number of employees/contractors using the canteen and toilet facilities. The generation of leachate from the bale shed has been reduced by the efficient use of water during cleaning and the removal of organic fines from the residual waste prior to baling. Truck washing has been relocated to the Clean Ireland Recycling waste permitted facility/truck depot in Shannon. At this facility wash water can be directed to sewer for treatment. An Irish water discharge licence is in place for the Shannon facility.

#### 6.0 Energy, Heat, Biogas and Compost

#### 6.1 Energy and heat generation summary

There is an oil boiler onsite for the provision of heat for the canteen and offices. No heat or energy is generated from waste.

#### 6.2 Biogas

There is currently no biogas produced onsite. There is no biogas flare or venting in use.

#### 6.3 Compost – Quality Standards and Destinations

No compost is currently being produced onsite. The destinations for organic wastes dispatched from the facility are detailed in the PRTR in Appendix D.

#### 6.4 Energy efficiency audit report summary

A company wide Energy Audit Report was carried out in November 2015 in compliance with European Union's Energy Efficiency Directive, 2012/27/EU and Irish Statutory Instrument S.I. No. 426 of 2014. This included an assessment of the energy usage at the Cree facility and identified opportunities for reductions in energy usage. These recommendations have been taken into account in the management and future development of the facility.

#### 7.0 Pollutant Release and Transfer Register (PRTR)

The PRTR for 2017 has been submitted via the dedicated EPA online portal as required. A copy of the spreadsheet submitted has been included in Appendix D. It is proposed that the quantities will be reduced for 2018 as waste will be transferred through alternative authorised facilities. Tonnages of waste transferred through the facility have increased in 2017 due to increased customer requirements for waste recovery, disposal and recycling.

#### 8.0 Tank and Pipeline testing and inspection report

The following sumps, bunds and tanks have all been tested and passed inspection. Testing is due every three years. The following were tested during August 2017 and all passed:

Concrete Sump - Leachate Sump  $\rightarrow$  28/08/17 to 29/08/17 Passed

Concrete Bund - Leachate Tank Bund → 28/08/17 to 29/08/17 Passed

**Leachate Tank** – Steel leachate tank → 28/08/17 to 29/08/17 **Passed** 

The following are due for testing in 2018:

**Concrete Bund** - Oil Bund - Tested 7108/15 to 13/08/15

Double skinned plastic - C&D Generator Diesel Tank - inspected 29/09/15

Double skinned plastic - Municipal Waste Shed Diesel Tank - inspected 29/09/15

#### 9.0 Reported Incidents Summary

			Incident	
Incident No.	Incident Nature	Category	Date	Details
				Exceedance of trigger levels at SW1
INCI013507	Trigger Level Reached	1. Minor	23/11/2017	& SW2
				Exceedance of trigger levels at SW1
INCI013247	Trigger Level Reached	1. Minor	25/09/2017	& SW2
INCI013240	Other	1. Minor	21/08/2017	Exceedance of ELV for Dust
INCI012982	Other	1. Minor	20/06/2017	Exceedance of ELV for GW1
INCI012671	Trigger Level Reached	1. Minor	29/06/2017	Exceedance of trigger levels at SW1
INCI012031	Trigger Level Reached	1. Minor	28/02/2017	Exceedance of trigger levels at SW2
INCI011668	Other	1. Minor	09/02/2017	Exceedance of ELV for GW1

Incidents were reported relating to exceedance of emission limit for pH at GW1. This monitoring point is the sample chamber from the Puraflow waste water treatment unit prior to the polishing filter. This unit is used to treat the waste water from the offices and canteen onsite and is not connected with waste processing activities onsite. It is thought that the low

pH result may be due to a fault with the unit or the use of acidic cleaning products. This is was investigated in 2017 and the situation was resolved. During the summer months there was an exceedance of the emission limit for dust but this was attributed to algal growth in the collection jars. Subsequent dust monitoring showed no exceedance. The other incidents relate to storm water monitoring results which reached trigger levels for ammonia, suspended solids and/or BOD. Investigations have been undertaken to address any contamination of storm water and improvements have been made to waste handling procedures onsite. The trigger levels set for the site are comparatively low and may be revised upwards in the future with the agreement of the EPA.

There were no complaints received in 2017.

#### 10.0 Summary of development/Infrastructural works

In 2017 a roof was installed over the leachate tank and bund to prevent the ingress of rainwater into the bund.

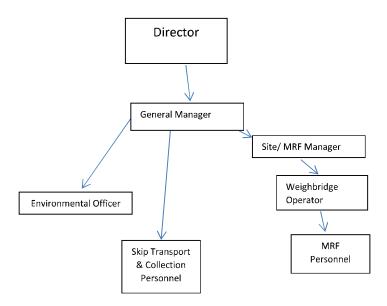
### 11.0 Financial provision, CRAMP (closure, restoration and aftercare management plan), ELRA (Environmental Liabilities Risk Assessment) and Environmental Liabilities – Statement of Measures

The Closure, restoration and aftercare management plan/decommissioning management plan (DMP) and the ELRA have been submitted and approved. Financial provision has been put in place for both and has been approved by the EPA.

11.1 Statement of measures in relation to the prevention of environmental damage and remedial actions

remedial actions	
Possible Risk	Prevention Measures
Fire	Staff fire training,
Fire water	Operating procedures
	Maintenance schedule
	Staff training
	<ul> <li>Liaison with fire services – good site knowledge</li> </ul>
	Fire Alarms
	Alarm monitoring
	Firefighting training
	Firefighting equipment
	Emergency response procedures
	Shut off valves
Water	Regular monitoring
contamination	Good housekeeping
	Waste processing and storage indoors
	Sealed vehicles and containers
	Spill kits
	Shut off valves
Air	Good housekeeping
contamination	Waste processing and storage indoors
	Odour abatement system
	Dust suppression if required
Malicious	Fencing
damage	Security cameras
	Remote monitoring
	Emergency response procedures

#### 12. Management and Staffing Structure



#### 13. Environmental Objectives and Targets and Environmental Management Programme

The Environmental Objectives and Targets for 2017 and 2018 are included in Appendix C. The objectives and targets include the details of the Environmental Management Programme with the timeframe, responsibility and means to achieve targets as per condition 2.2.2.3. The 2017 Objectives and Targets includes details of the progress achieved in 2017.

#### **Appendices**

Appendix A – Summary of Waste Accepted onsite in 2017

Appendix B – Monitoring Results: Ambient Monitoring (Dust & Groundwater), Noise Monitoring, Storm water.

Appendix C – Schedule of Objectives and Targets 2017 & 2018

W0253-01

Appendix D – Copy of Pollution Release and Transfer Register (PRTR) 2017

Appendix A – Summary of Waste Accepted onsite in 2017, 2016 & 2015

LoW Code	Waste Description	Tonnage 2017	Tonnage 2016	Tonnage 2015
150104	Aluminium Cans	4.65	2.48	1.44
200201	Brown Bin Waste	841.14	880.345	906.61
200307	Bulky	3027.378	2671.71	2670.815
170411	Cable	0	0.38	1.54
150101	Cardboard	476.06	709.05	1494.05
080318	Cartridges	1.649	1.69	0.62
191210	Combustible Waste (RDF)	0	0	869.39
191212	Combustible Waste (RDF)	5895.1	4183.152	0
191204	Clear film	0.2	11.24	0
200201	Garden Waste	63.82	57.6	39.78
170802	Gypsum	6.82	51.58	0
170203	Hard Plastic	155.645	153.48	140.14
200139	HDPE Bottles	6.76	4.72	17.12
200307	Matresses	81.58	66.796	60.24
170407	Metal from C&D Sites	21.78	28.22	61.88
170904	Mixed C&D	583.72	521.46	444.35
170107	Mixed Concrete and Bricks	110.12	98.72	69.3
200301	Mixed Dry Recyclables	8172.64	8199.597	8238.75
150107	mixed Glass	80.03	198.13	450.14
200140	Mixed Metal	19.1	25.1	58.54
200139	Mixed Plastic Bottles	191.83	266.72	161.95
200301	Mixed Waste	33007.017	33197.043	29597.552
200101	Paper	2154.34	2049.493	1639.58
200101	Paper Shredding	8.72	16.64	12.35
200139	PET Bottles	0	6.39	17.08
170802	Plasterboard	6.9	0.1	29
200139	Plastic Film	0	0	5.16
150102	Plastic Film	6.47	0.48	0
200102	Plate Glass	33.94	61.48	56.3
200139	Polyethylene	2.84	2.34	0.9
190801	TP Screenings	20.3	20	0
200136	WEEE	9.31	8.55	5.22
191207	Wood Chip	0	0	0
170201	Wood from C&D Sites	1157.011	882.63	869.52
200301	Sludge	0	0	31.32
150102	Polystrene	7.68	9.22	3.25
170201	Low Grade Timber	0	0	35.38
170407	Light Steel	0	216.48	0.22
191209	Inert Soil and Stone	57.96	1.8	19.3
200108	CAT3	2.78	6.36	1.665
200201	Biodegradeable waste	0	0	6.1

200138	Wood	128.58	96.86	67.45
020304	Materials Unsuitable	103.19	0	0
191204	PET Bottles	7.46	0	0
150102	Soft Plastic Packaging	21.54	0	0
	TOTAL Waste Accepted	56476.06	54708.036	48084.002

#### **Dust Monitoring Results W0253-01 2017**

		Depositional	Dust				
Report No.		Date down	D-1	D-2	D-3	D-4	D-5
neport No.	Date up	Date down			mg/m2	2/day	
ECS5304-Qtr 1	27/01/2017	28/02/2017	111	211	239	139	217
ECS5304-Qtr 2	25/05/2017	25/05/2017	178	161	155	132	161
ECS5304-Qtr 3	18/07/2017	22/08/2017	477	403	457	561	477
ECS5304-Qtr 1	27/01/2017	28/02/2017	111	211	239	139	217

#### **Groundwater Monitoring Results W0253-01 2017**

Orounawater in					
			Well		Well
		GW-1	Borehole	GW-1	Borehole
Parameter	Units	From	Deep well at	From	Deep well
Farameter	Ullits	Puraflo	gate	Puraflo	at gate
		System	entrance	System	entrance
		prior to		prior to	
		perculation		perculation	
		21/06/2017	21/06/2017	04/10/2017	04/10/2017
Color	-	Pale Yellow	Clear	Pale/Clear	Clear
Solids	-	None	None	None	None
Odour	-	None	None	Faint	None
pH	pH units	6.7	7.3	6.6	7.3
NH3-N	mg/l	9.9	0.26	9.5	0.64
BOD	mg/l O2	3	<2	<2	<2
BOD	mg/l	51	<10		
COD	02	51	<10	36	<10
Conductivity @ 25°C	μS/cm	585	680	458	608
	1	53	11	<5	<5
Suspended solids	mg/l			73	
Total Nitrogen	mg/l	33	<1	27	<1
P04-P	mg/l	5.2	<0.16	3.8	0.02
Chloride	mg/l	86	41	54	32
Fluoride	mg/l	0.21	<0.1	0.5	<0.01
N03-N	mg/l	21	<0.05	11	<0.04

#### Noise Monitoring Results W0253-01 2017

	·						
Quarterly	Noise Mon	itoring Clea	n Ireland	Qtr1	Qtr2	Qtr3	Qtr 4
Quarterly Noise Monitoring Clean Ireland			28/02/17	25/04/17	18/07/17	23/10/17	
				20/02/17 <b>LA</b> eq	LA <sub>eq</sub>	LA <sub>eq</sub>	LA <sub>eq</sub>
		Location	Duration	dB(A)	dB(A)	dB(A)	dB(A)
			30 min	54	52	50	52
	Licence Limit 55dB(A)	NSL-1	30 min	54	52	52	51
Day Time			30 min	53	53	49	45
Noise Monitoring		Limit	30 min	51	50	50	49
7am to 7pm			30 min	51	51	55	51
7,5111			30 min	51	50	48	48
			30 min	54	42	41	45
			30 min	49	44	46	48
			30 min	50	47	45	47
Evening		NSL-1	30 min	42	47	44	45
Time 7pm to 11pm	Licence 50dB(A)	NSL-2	30 min	49	45	47	43
		NSL-3	30 min	47	48	47	39

#### Storm Water Monitoring Results W0253-01 2017

		Qtr1	Qtr 2	Qtr 3	Qtr 4
SW 1 Parameter	Units	28/02/17	29/06/17	25/09/17	23/11/17
		ECS5304	ECS5304	ECS5304	ECS5304
	Colour	Clear	Clear	Clear	Clear
Visual	Solids	Some	Some	Some	Few
	Odour	None	None	None	Faint
pH result	pH units	7.7	7.7	7.9	7.7
Conductivity @ 25°C	μS/cm	513	645	672	557
SW-1 Suspended solids	mg/l	25	<5	<5	19
SW-1 BOD	mg/l 02	2	<2	<2	5
COD	mg/l 02	25	12	14	22
SW-1 NH3-N	mg/l	0.13	1	0.29	0.12
Sulphate	mg/l	60	3.4	83	55
Total Nitrogen	mg/l	<1	<1.0	1.4	<1.00
Mineral Oil**	μg/l	<10	<10	<10	<10

SW 2		Qtr1	Qtr 2	Qtr 3	Qtr 4
SW 2 Parameter	Units	28/02/17	29/06/17	25/09/17	23/11/17
		ECS5304	ECS5304	ECS5304	ECS5304
	Colour	V. Pale yellow	V. Pale yellow	V. Pale Yellow	V. Pale Yellow
Visual	Solids	Some	Some	Some	Few
	Odour	None	None	None	None
pH result	pH units	7	7.8	6.6	7
Conductivity @ 25°C	μS/cm	946	647	712	771.5
SW-2 Suspended solids	mg/l	66	<5	5	10
SW-2 BOD	mg/l 02	10	<2	<2	7
COD	mg/l 02	70	<10	29	54
SW-2 NH3-N	mg/l	0.95	0.06	1	0.34
Sulphate	mg/l	290	8.2	137	193
Total Nitrogen	mg/l	3.7	<1.0	12	1.2
Mineral Oil**	μg/l	<10	<10	<10	<10

Appendix C – Schedule of Objectives and Targets 2016 & 2017

Environmental Objectives and Targets 2017 as required by Condition 2.2.2.2 of EPA Waste Licence W0253-01

		tai Objectives and Targets 2	017 43	requir	ca by containen 2.	LILIE OF ET A WUSTE	LICCITOC WOZOG CT	
Ref No.	Objective	Target	Statu comp	•	How target are progressed	Responsibility	The time within which they may be achieved	END OF YEAR Comments/Progress
1	Environmental anagement System	Continued roll out Environmental anagement System	Ongoing	0%	Ongoing review of precedures documentation objectives targets records training to SO standards	Environmental Officer	ongoing	n place and integrating with licence requirements. pgraded/reviewed to meet new standard. Documents reviewed Nov17.
2	Environmental Training Awareness	To ensure that ey employees are made aware of conditions set out in EPA Licence W0253-01 and the requirements set out in the Environmental anagement System.  All site staff to be trained in relation to Fire Ris Assessment and Storage Plan.	Ongoing	100%	dentify environmental training needs of all employees. Continue internal training programme and assessment of training needs for all operational staff	Facility anager/ Environmental Officer	Ongoing	Ongoing
3	Plant and ehicle aintenance Programme	Establish and maintain a programme for maintenance of all plant and equipment as per Condition 2.2.2. of Waste Licence	Ongoing	100%	Documented maintenance programme to be updated as required. Development of spare parts stoc .	aintenance Team	1 17	Spare parts stoc being reconsidered as not necessary. Schedule in place and continually updated.
	Annual Review	anagement Team to review compliance with licence conditions E S mprovements and Objective Targets set out.	Ongoing	0%	Review environmental performance of the facility	anagement/ Environmental Officer	ongoing	eetings held wrt compliance. E S and Objectives and targets reviewed in November 2017
5	Environmental onitoring	As per Waste Licence Should any limits be e ceeded corrective actions to be implemented.	Ongoing	100%	Continue to monitor emissions from site and investigate any e ceedance of trigger levels. Agree new service contract for monitoring.	Environmental Officer	Ongoing	nvestigations and reports completed and submitted to EPA or ept on file as required.
7		nstall manual Shut-off valves on surface/wastewater discharge drains. D the valves at location.	Ongoing	100%	Procurement of 3 quotations following by instalation	anagement	Ongoing	nstalled at SW1 and SW2 2 2017.
		Develop procedures for manual shut down of valves. nclude in E S and training records.	Ongoing	0%	Following instalation of valves	anagement	Ongoing	Proceedures reviewed/updated Novemeber 2017.
	Surface Water anagement	pgrade drainage system and the diversion of roof storm water directly to stream	Ongoing	20%	Review of site drainage	anagement/ Environmental Officer	Ongoing	uotes received.

10		Review progress against stormwater trigger values from yard runoff and detail action items to reduce at source	Ongoing	0%	On review of quarterly monitoring report	anagement/ Environmental Officer	Ongoing	Response Programme submitted to EPA 2 .07.17. Awaiting reply from EPA re trigger levels. nvestigations underta en and documented.
11	Silt Traps and Oil Separators	Purchase and install interceptors	Ongoing	20%	Engineer to calculate the area minus the roof area. Details to be furnashed to suppliers for procurement of interceptors	anagement/ Environmental Officer	Ongoing	nder review.
12	Weather system	Compliance Re Weather onitoring Station as per Condition 3.23 of Waste Licence	Ongoing	50%	Following discussion with EPA send notification for approval of intention not to install weather system	Environmental Officer	1 17	Wording drafted for approval.
13	Additional improvements	As per licence amendment Assessment of Fire-water Retention to be included in fire plan.	Ongoing	0%	Appoint consultants	anagement		FRA submitted to EPA 10/02/17 approved by EPA 1 /12/17
1	und and drainage (including foul) integrity Testing	Carry out integrity testing on all underground tan s and pipes in accordance with Condition .10 of Waste Licence	Ongoing	100%	Organise 201 testing.	Environmental Officer		Leachate tan and bund to be tested in August 2017. All testing up to date.
15	Noise anagement Programme	Prepare programme in accordance with Condition .13 of Waste Licence.	Ongoing	50%	Review programme based on findings of Noise Surveys Review annually	Environmental Officer	ar-17	Draft in preparation.
1	Energy Efficiency/ tility conservation	mprove energy effciency of equipement on site.	Ongoing	70%	Continue upgrading items highlighted in Energy Audit. Efficiency to be considered during purchasing.	Facility anager	Ongoing	ongoing
1	Closure Plan	Prepare Decommissioning anagement Plan (D P) as per Condition 10.2 of Waste Licence	Ongoing	100%	Finalise Report. Review annually and submit as part of AER	anagement	1 17	Submitted to EPA 01/03/17 approved 05/0 /17. Financial provision approved and in place.
1	ELRA	Prepare Environmental Liabilities Ris Assessment as per Condition 12.2 of Waste Licence	Ongoing	100%	Finalise Report. Review every three year and submit as part of AER	anagement	1 17	ELRA submitted approved and financial provision approved and in place.

Environmental Objectives and Targets 2018 as required by Condition 2.2.2.2 of EPA Waste Licence W0253-01

Ref No.	Objective	Target	Statu	us (% eleted)	How target are progressed	Responsibility	The time within which they may be achieved	Comments/Progress
1	Environmental anagement System	Continued roll out Environmental anagement System	Ongoing	5%	Ongoing review of precedures documentation objectives targets records training to SO standards	All	3	Achieve certification to new standard
2	Environmental Training Awareness	To ensure that ey employees are made aware of conditions set out in EPA Licence W0253-01 and the requirements set out in the Environmental anagement System. All site staff to be trained in relation to ire Ris Assessment and Storage Plan.	Ongoing	0%	dentify environmental training needs of all employees. Continue internal training programme and assessment of training needs for all operational staff	acility anager/EO	Ongoing	Ongoing
3	Annual Review	anagement Team to review compliance with licence conditions E S mprovements and Objective Targets set out.	Ongoing	50%	Review environmental performance of the facility	anagement/EO	2	
	Surface Water Management	Review trigger levels in conjunction with EPA	Ongoing	0%	Await EPA response to proposal.	anagement/EO	1	
5	und and drainage (including foul) integrity Testing	Carry out integrity testing on all underground tan s and pipes in accordance with Condition .10 of Waste Licence	Ongoing	50%	Organise 2018 testing.	EO	2	
	Noise anagement Programme	Prepare programme in accordance with Condition .13 of Waste Licence.	Ongoing	50%	Review programme based on findings of Noise Surveys Review annually	EO	2	
	Energy Efficiency/ tility conservation	mprove energy effciency of equipement on site.	Ongoing	50%	Review power and fuel requirements due to restructuring.	anagement/EO	2	
8	Closure Plan	Revise	Ongoing	20%	Review annually and submit as part of AER	anagement/EO	3	
	ELRA	Revise	Ongoing	20%	inalise Report. Review every three year and submit as part of AER	anagement/EO	3	

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Guidance to completing the PRTR workbook

# **PRTR Returns Workbook**

REFERENCE YEAR 2017

1. FACILITY IDENTIFICATION
Parent Company Name Clean (iri) Retuse & Recycling Co
Facility Name Clean (iri) Retuse & Recycling Co.

Classes of Activity
No, class name
- Refer to PRTR class activities below

	Web Address
	User Feedback/Comments
100	Number of Employees
0	Number of Operating Hours in Year
0	Number of Installations
	Production Volume Units
0.0	Production Volume
061363509	AER Returns Contact Fax Number 061363509
1890361800	AER Returns Contact Mobile Phone Number 1890361800
0656706500	AER Returns Contact Telephone Number 0656706500
Environmental Officer	AER Returns Contact Position Environmental Officer
jgammell@cleanirl.com	AER Returns Contact Email Address   gammell@cleanirl.com
Joanna Gammell	AER Returns Contact Name Joanna Gammell
Main Economic Activity/Recovery of sorted materials	Main Economic Activity
3832	NACE Code 3832
IEGBNISH	River Basin District   EGBNISH
Coordinates of Location -9.44066409300 52.73670466900	Coordinates of Location
Ireland	Country Ireland
Clare	
	Address 4
Address 3 County Clare	Address 3
Cree	Address 2 Cree
Address 1 Ballinagun West	Address 1

Activity Name General 2. PRTR CLASS ACTIVITIES Activity Number 50.1

Guidance on waste imported/accepted onto site 4. WASTE IMPORTED/ACCEPTED ONTO SITE

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

This question is only applicable if you are an IPPC or Quarry site. 3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002) Have you been granted an exemption? I applicable which activity class applies (as per Schedule 2 of the regulations)? Is the reduction scheme compliance muse being used?

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22/03/2018 16:38 6

A (Accidental) KG/Year

T (Total) KG/Year

00 Link to previous years emissions data SECTION A: SECTOR SPECIFIC PRTR POLLUTANTS 4.1 RELEASES TO AIR

| PRTR# : W0253 | Facility Name : Clean (Iri) Refuse & Recycling Co. | Filename : W0253\_2017xis | Return Year : 2017 | 16 24 24

9

RELEASES TO AIR

M/C/E Method Code \* Select a row by double-dicking on the Pollutant Name (Column B) then click the delete button Name

SECTION B: REMAINING PRTR POLLUTANTS

No. Annex II

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

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

A (Accidental) KG/Year Please enter all quantities in this section in KGs T (Total) KG/Year M/C/E Method Code SECTION C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)
RELEASES TO AIR Name Pollutant No.

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

Additional Data Requested from Landfill operators

or the purposes of the National Inventory on Geerhouse Gases, lanfill operators are requested to provide lummary data orderifig as National Flat and confised on their facilities to accompary the figures for total management. Operators should only report their Net methorse (CAM) emission to the environment under (10all) KGNY for Section A. Sector specific PRTR pollutaris above. Please complete the table elbow:

M/C/E T (Total) kg/Year Clean (Irl) Refuse & Recycling Co. Total estimated methane generation (as per its more)

Methane lared
Net man utilised in expired in the more in expired in the more in expired in Section (as reported in Section A above) lease enter summary data on the uantities of methane flared and / or utilised andfill:

Method Code

0.0 (Total Flaring Capacity)
0.0 (Total Utilising Capacity)

N/A

Facility Total Capacity m3

N/A

			Quantity (Tonnes per Year)		Metho	Method Used		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/Usposer	Name and License / Permit No. and Address of Firal Recovers / Disposer (HAZARDOUS WASTE ONLY)	Actual Actress of Final Destination Le. Final Recovery / Disposal Sile (HAZARDOUS WASTEONLY)
Eu Transfer Destination	European Waste Code	Hazardous	Description of Waste	Waste Treatment Operation	M/C/E	Method Used	Location of Treatment				
Within the Country 13 05 08		Yes	mixtures of wastes from grit chambers and 3.7 oil/water separators	† "	Σ		g	Enva Ireland Ltd,W0196-01	John F Kennedy Rd, Naas Road, Dublin, Ireland	ENVA Ireland, W0184- 01, Clonminam Industrial estate, Portlaoise, Co Laois, , Ireland	Clonminam Industrial estate, Portlaoise, Co Laois, , Ireland
To Other Countries 15 01 01		No No	174.86 paper and cardboard packaging	R12	M Weighed		Abroad	Peute Papier Recycling, DO 02, 2017 MDO	Baanhoekweg 4 3313 ,LA,Dordrecht,,,Netherlands		
To Other Countries 15 01 01		9 8	528.44 paper and cardboard packaging	R12	M Weighed		Abroad	11Alvaston Business Park, Micdewich Road, Natwich Chesi Recycling UK, NSO/5448431B 6PF, United Kingdom	11 Alvaston Business Park, Middlewich Road, Natwich Chesire, CW5 6PF, United Kingdom		
Within the Country 15 01 02		<u>8</u>	0.0 plastic packaging	R12	M Weighed		Offsite in Ireland	Clemouri Business Clemouri Business Lerviron T/A Leinster Park, Haynestown Environmentals, WFP-LH-11 - TD, Haggardstown 0002-01 Durdalk, Co Louth, Ireland	Clermount Business Park, Haynestown TD, Haggardstown Dundalk, Co Louth, Ireland		
Within the Country 15 01 07		No No	160.9 glass packaging	R5	M Weighed		Offsite in Ireland	Glassco Recyding Ltd,WFP- KE-08-0357-01	Unit 4,Oberstown business Glassco Recycling Ltd,WFP- park,Carragh road,Naas Co. KE-08-0357-01 Kildare,Ireland		
Within the Country 16 01 03		No	0.0 end-of-life tyres	R12	M Weighed		Offsite in Ireland	Arch Recycling ,WFP-CE-11-0001-01	Grown, Crown, Lisseycasey, C o Clare, Ireland		
Within the Country 16 02 16		o <sub>N</sub>	comporents removed from discarded equipment ofher than those mentioned in 16 0.0 02 15	ed ned in 16 R12	M Weighed		Offsite in Ireland	KMK Metals Recycling,W0133-03	Cappincur industrial estate, Daingean Road, Tullamore, Co. Offally, Ireland		
Within the Country 16 06 01		Yes	0.62 lead batteries	R12	M Weighed		Offsite in Ireland	KMK Metals Recycling,W0133-03	Cappincur industrial estate, Daingean Road, Tullamore, Co. Offally, Ireland	Nam Netals Lid, WO 1.3- 03, Cappincur industrial estate, Daingean road, Tullamore, Co Offally, Ireland	Cappincur industrial estate, Daingean road, Tullamore, Co Ottally, Ireland
Within the Country 17 02 01		9	1294.26 wood	R3	M Weighed		Offsite in Ireland	OCR Waste Management Ltd,WFP-RN-10-0001-01	Roxborough,,,Roscommon,,,I reland		
Within the Country 17 04 03		No No	0.0 lead	R12	M Weighed		Offsite in Ireland	Galway Metal Company,WFP-Carrowmoneash,Oranmore, 11-G-0005-01	Carrowmoneash, Oranmore, Galway ,., Ireland		
Within the Country 17 04 07		No No	216.48 mixed metals	R12	M Weighed		Offsite in Ireland	Galway Metal Company,WFP-Carrowmoneash,Oranmore, 11-G-0005-01 Galway ,,,Ireland	Carrowmoneash, Oranmore, Galway ,,, Ireland		
Within the Country 17 08 02		9	gypsum-based construction materials other 75.68 than those mentioned in 17 08 01	als other R5	M Weighed		Offsite in Ireland	Allied Waste management Ltd,WFP-KE-08-0347-01	Unit 74A,Naas industrial estate,Naas ,Kildare,Ireland		
Within the Country 19 07 03		9 8	landfill leachate other than those mo 27.9 in 19 07 02	entioned R12	M Weighed		Offsite in Ireland	Bunlicky WWTP, D0013-01	Pock Road, Limerick, Limerick, Lime rick, Ireland		
To Other Countries 19 12 04		No No	0.0 plastic and rubber	R12	M Weighed		Abroad	Envirogreen Recycling Ltd,WMEX03/45	97. Muliaelish Road, Richill, Armagh, B61 9LT, United Kingdom		
Within the Country 19 12 04		No	0.0 plastic and rubber	R12	M Weighed		Offsite in Ireland	Barna Recycling, W0106-2	Carrowbrowne, Headford road, Galway,., Ireland		
Within the Country 19 12 04		No No	24.56 plastic and rubber	R12	M Weighed		Offsite in Ireland	Clearplas Ireland Ltd,WFP/MH/14/0001/01	Gibstown Kells,meathIreland		
Within the Country 19 12 04		9	12.6 plastic and rubber	R12	M Weighed		Offsite in Ireland	Lenviron T/A Leinster Environmentals,WFP-LH-11- 0002-01			
								Powerstown Landfill	Kilkenny Road Co		

Baanhoekweg 4 3313 LA,DordrechtNetherlands	11Alvastor Business Park, Micdowich Road, Malwich Chestre, CW5 6PF, United Kingdom	Spir Hill Quary,Haselwood,Kilbeggan Co Wastmeath, Ireland	Dunmoylan, Shanagolden, Lim	Carrownes, Headford Carrownes, Headford Carlown Indiana	Obstruction of Capping	Clermount Business Park, Haynessown D Haggardstown Dundalk, Co Louth, Ireland	97 Multialeitsn Road, Richill, Armagh, B61 9LT, United Kingdom	Jarrowmoneash, Oranmore, Jalway ,,,,lreland	Cafrowto whe, fleading coad, Galway, ireland	Augraturrer, milarrey , ,, co. Kerry, Ireland	Parsonstown Loughnacush Misteaskin, Drumord Timahoe Wood Cooleangan, Carbury Co, Kitara, Ireland	Nikenriy Hoad.,,Uo Garlow., Ireland	105 peterburi road,Maardu.,,74114,Estonia	Parsonstown Loughracush Kilkeaskin, Drumord Timahoe west, Coolcarrigan, Carbury Co Kildare, Ireland	Kilkenny RoadCo CarlowIreland	Aughacurren,KillarneyCo. Kerry,Ireland	Carrowmoneash, Oranmore, Galway ,,, Ireland	Jarrowmoneash, Oranmore, Jalway ,,, Ireland	ballylilouri Road, Walkinstown, Dublin 12,D12, Ireland	Carrowmoneash,Oranmore, Galway ,,,Ireland Ballikooto Pools	ballyketet, Juok Road, Limerick, Limerick, Irela nd
Peute Papier Recycling, DO 02.2017 MDO	11 Alvaston Business Park, Middlewich Road, Natwich Chesin Recycling UK, NSO 544843/8 6.Pf., United Kingdom	John Gannon Concrete,WFP-WM-2009-007-01	McDonnell Farm Biogas	Borno Bostolina M0406 2	KMK Metals Revoling W0133-03	Lenviron T/A Leinster Environmentals,WFP-LH-11- 0002-01	Envirogreen Recycling Ltd,WMEX03/45	Galway Metal Company,WFP-Carrowmoneash,Oranmore, 11-G-0005-01 Galway ,,,Ireland	Barna Recycling, W0106-2	disposal,W0217-01	01-03	rowerstown Landilli site,W0025-03	Eesti Energia,10421629	Drehid Landfill,W0201-03	Powerstown Landfill site,W0025-03		Galway Metal Company,WFP:Carrowmoneash,Oranmore, 11-G-0005-01 Galway ,,,Ireland	Galway Metal Company,WFP-Carrowmoneash,Oranmore, 11-G-0005-01 Galway ,,,Ireland	Irish Packaging Recycling,W0263-01	Galway Metal Company,WFP- 11-G-0005-01	Starus Eco Holdings Ltd (Limerick),W0082-02
Abroad	Abroad	Offsite in Ireland	Official of official of official of official of official of official of official off	Official in Iroland	Offisite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Abroad	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland
Weighed	Weighed	Weighed	Woighod	Moiosia Maria	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed
R12 M	R12 M	RS			0		R12 M	R12 M	R12 M	R12 M	D14 M	D14 M	R1	D14 M	D14 M	R12 M	R12 M	R12 M	R12 M	R12 M	R12 M
907.7 paper and cardboard	1006.34 paper and cardboard	85.04 class	502 50 biodensedeble kitchen and cardeen weete	O O biodocodobio kitoban and contran waste	discarded electrical and electronic environment and electronic equipment other than three mentioned in 20 13.20.01.23.and 20.01.35.and 20.01.35.and 20.01.35.and 20.01.35.and 20.01.35.and 20.01.35.and 20.01.35.and 20.01.35	20 64 plastics	0.0 plastics	0.0 metals	0.0 biodegradable waste	4410.85 mixed municipal waste	1458.21 mixed municipal waste	190.34 mixed municipal waste	32827.17 mixed municipal waste	1275.7 bulky waste	858.62 bulky waste	1.22 metallic packaging	5.78 aluminium	cables other than those mentioned in 17 04 0.8 10	25.04 paper and cardboard packaging	379.51 mixed metals	120.82 glass packaging
S S	S <sub>O</sub>	2	Ş	2 2	2 2	<u>8</u>	8 8	N <sub>O</sub>	N <sub>O</sub>	9	8	N <sub>O</sub>	<sub>S</sub>	S	92	No No	S <sub>O</sub>	V	9	o N	<sub>S</sub>
To Other Countries 20 01 01	To Other Countries 20 01 01	Within the Country 20 01 02					Within the Country 20 01 39	Within the Country 20 01 40	Within the Country 20 02 01	Within the Country 20 03 01	Within the Country 20 03 01	Within the Country 20 03 01	To Other Countries 20 03 01	Within the Counity 20 03 07	Within the Country 20 03 07		Within the Country 17 04 02	Within the Country 17 04 11	Within the Country 15 01 01	Within the Country 17 04 07	Within the Country 15 01 07

													o ial					
													Clonminam Industrial estate,Porllaoise,Co Laois,lreland					
													ENVA Ireland, WU 84- 01, Clonminam Industrial estate, Portlaoise, Co Laois,,, Ireland					
Unil 4 Oberstown business Glassco Recycling Ltd,WFP- park, Carragh road,Naas Co. KE-08-0357-01		Kerry, Ireland		Ballymouni Road, Walkinstown, Dublin 12, D12, Ireland	Ballymount Road,Walkinstown,Dublin 12,D12,Ireland	Dailybey, Lillelori, Co. Tipperary, Co. Tipperary, Ireland	Carlow, Co Carlow, Ireland	Ballynagran ,Coolbeg and Kilcandra,Co. Wicklow,Co. Wicklow,Ireland	Cartrontroy, Athlone, Co S-Westmeath, Co Westmeath, Ireland	Knockharley, Navan, Co. Meath, Co. Meath, Ireland	Knockharley, Navan, Co. Meath, Co. Meath, Ireland	Miltownmore , Fethard, Co. Tipperary, Co. Tipperary, Ireland	Clonminam Industrial Estate, Portlaoise, Co. Laois, Co. Laois, Ireland	Lawiesslown, clorimer , co. Tipperary, Co. Tipperary, Ireland	Forge Hill ,Co. Cork,Co. Cork,Co. Cork,Ireland		Ballybeg, Liftleton, Co. Tipperary, Co. Tipperary, Ireland	
Glassco Recyding Ltd,WFP- KE-08-0357-01	Limerick) 1-001-01	disposal,W0217-01	Wheely Environmental Retuse Services T/A WERS Waste, WFP-G-14-0002-01	Irish Packaging Recycling,W0263-01	Irish Packaging Recycling,W0263-01	Acon necycling banyoeg Composting Facility,W0249- 01	Ltd.,W0284-01	Ballynagran Landfill Ltd.,W0165-02	Cartrontroy,Athi Barna Waste,WFP-WM-2016-Westmeath,Co 0004-01 Westmeath,Irek	Knockharley Landfill Ltd,W0146-02	Knockharley Landfill Ltd,W0146-02	Miltown Composting Systems Ltd.,W0270-01	Enva Ireland Ltd (Portlaoise),W0211-01	Clonmel Waste Disposal Ltd.,WFP-TS-11-00001-01	Forge hill recycling Lid (KWD Cork),WFP-CK-15- 0148-01	Cartrontroy,Athi Barna Waste,WFP-WM-2016-Westmeath,Co 0004-01 Westmeath,Irek	Acorn Recycling Ballybeg Composting Facility, W0249- 01	03
Offsite in Ireland		Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland	Offsite in Ireland
Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed	Weighed
R12 M		R12 M	R12 M	R12 M	R12 M	M	M	D14 M	D14 M		D14 M	Σ	R12 M	R12 M	R12 M	D15 M	Σ	Σ
						kitchen and canteen waste R3	kitchen and canteen waste R3	.O	ia	ia		other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	waste paint and varnish containing organic 0.32 solvents or other dangerous substances R1	in 20 01 37		ā	s waste R3	pal waste R1
160.9 glass packaging	292.05 metals	49.68 plastic and rubber	24.1 plastic and rubber	25.2 paper and cardboard	8.22 plastic packaging	280.62 biodegradable kitchen and cant	83.86 biodegradable kitchen and can	46.86 bulky waste	56.36 bulky waste	382.94 bulky waste	27.2 mixed municipal waste	other wastes ( materials) fror wastes other t 1017.88 11	waste paint ar 0.32 solvents or oth	284.1 wood other than that mentioned	3876.7 mixed municipal waste	38.42 bulky waste	35.38 biodegradable waste	128.62 mixed municipal waste
No	N <sub>O</sub>	No	N <sub>O</sub>	oN N	8	9	oN N	<u>8</u>	8	N <sub>o</sub>	9	o <sub>N</sub>	Yes	oN N	<sub>o</sub> N	<u>8</u>	8	9
Within the Country 15 01 07		Within the Country 19 12 04	Within the Country 19 12 04	Within the Country 20 01 01	Within the Country 15 01 02	Within the Country 20 01 08	Within the Country 20 01 08	Within the Country 20 03 07	Within the Country 20 03 07		Within the Country 20 03 01	Within the Country 19 12 12	Within the Country 08 01 11	Within the Country 20 01 38	Within the Country 20 03 01	Within the Country 20 03 07	Within the Country 20 02 01	Within the Country 20 03 01

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

Previous years data is correct as at 26/02/2018 11:42

Type of Waste	Previous Year Total Cu	urrent Year Total	Percentage Change
Hazardous Waste inside the country for disposal	0	0	0
Hazardous Waste inside the country for recovery	4.64	1.18	-74.56896552
Hazardous Waste outside the country for disposal	0	0	0
Hazardous Waste outside the country for recovery	0	0	0
Non-Hazardous Waste for disposal	4334.65	5118.786	18.08994959
Non-Hazardous Waste for recovery	49478.26	53845.369	8.826318872