



THE RECYCLING VILLAGE LTD

**ANNUAL ENVIRONMENTAL RETURN
2017**

Industrial Emissions Licence Register No:

W0286-01

Licensee:

The Recycling Village Ltd

Location of Activity:

Unit 21,
Duleek Business Park,
Duleek,
Co. Meath,
A92 KV6X

For the Attention of:

Environmental Protection Agency

1. Introduction

1.1 Reporting Period

1.1.1 The following is the Annual Environmental Report (AER) for the period 1st January 2017 to the 31st December 2017 for The Recycling Village Ltd, Unit 21, Duleek Business Park, Duleek, Co. Meath.

1.1.2 This report has been prepared as per Schedule D of Industrial Emissions Licence Register No. W0286-01, which was granted to The Recycling Village Ltd on 14th January 2015.

1.2 Description of On-Site Waste Activities

1.2.1 The Recycling Village Ltd was established in 2004 to provide a specialist treatment service for waste electrical and electronic equipment (WEEE) in Ireland. The system was specifically designed for dismantling display systems, such as televisions and computer monitors. The company is fully licensed to treat hazardous WEEE and batteries, and is certified to the WEEELABEX Standard for the treatment of Cathode Ray Tubes (CRTs) and Flat Panel Displays (FPDs). Other material is also treated at the facility, such as lead acid batteries.

1.2.2 The aforementioned WEEE is generated at civic amenity sites and dedicated WEEE collection points as part of the WEEE compliance schemes. The Recycling Village Ltd also has a number of business customers and arranges for the collection and delivery of similar material.

1.2.3 Cathode Ray Tube (CRT) TV and PC monitors are manually processed and dismantled to separate the cathode ray tube (CRT) and outer unit/case. The CRT's themselves are then split into panel and funnel glass and are processed separately, as panel glass is non-hazardous, whereas funnel glass contains lead. The recovered fractions from CRT display systems include glass, ferrous and non-ferrous metals and plastics. Flat Panel Display (FPD) TV and PC monitors are manually processed and dismantled to separate the screen, outer unit/case, the lightbox and backlights. The recovered fractions include ferrous and non-ferrous metals, plastics and mercury-containing backlights. The backlights are removed in an isolation unit and stored in specialised containers. All recovered materials are segregated, bulked and stored on site prior to transport off site for further processing and recycling.

1.2.4 Other WEEE is also manually processed and dismantled to recover separate non-hazardous fractions such as metals and plastics. Hazardous lead gel batteries are also recovered from UPS's. The recovered materials are segregated, bulked and stored on site prior to transport off site for further processing and recycling.

1.2.5 Other batteries are brought to the facility where they are sorted, segregated and repackaged prior to transport off site for further processing and recycling.

1.2.6 The Recycling Village Ltd currently employs approximately 24 staff.

2. Emissions from the facility.

2.1 Emissions to Air

- 2.1.1 Emissions to air from The Recycling Village Ltd are controlled as part of the organisations Environmental Management System. Exhaust fan speeds are measured and recorded weekly. Documented procedures for controlling air emissions are in place at the facility for Air Emissions Monitoring (EMS 11 04), Mercury Vapour Monitoring (EMS 11 08), Air Extraction Rate Monitoring (EMS 11 09) and Air Filter Exchange (EMS 11 10).
- 2.1.2 Air emissions were sampled and analysed quarterly for Total Particulates and biannually for Metals, as per the requirements of licence Condition C.2.1.
- 2.1.3 Air Emissions were in compliance with limits set in the licence, except in quarter one of 2017 when the volumetric flow was measured above 10,000nm³/hr.
- 2.1.4 Turbulent conditions were present in the vent which could have meant that flow measurements were not reliable.
- 2.1.5 An investigation and a meeting took place at the facility between the engineering installer of the air vent and the environmental consultants. Remedial work was undertaken with a view of removing the turbulent conditions.
- 2.1.6 The environmental consultants carried out an air assessment of the vent before quarter two monitoring took place and found that there was no turbulence within the vent.
- 2.1.7 Results of all Air Emissions Monitoring for 2017, carried out by TMS Environmental Ltd on behalf of The Recycling Village Ltd, can be found on the EDEN Portal.

2.2 Emissions to Storm Sewer (storm water run-off)

- 2.2.1 Emissions to Storm Water from The Recycling Village Ltd are controlled as part of the organisations EMS. Documented procedures for controlling emissions to surface waters are in place at The Recycling Village Ltd, i.e. Interceptor Sump Inspection, Cleaning and Maintenance and Effluent Monitoring (EMS 11 01); Storm Water Trigger Level Exceedance Response (EMS 11 11); (*procedure is awaiting approval by the EPA*) and the Hazardous Spillage Procedure contained in the Environmental Accident Prevention and Emergency Response Procedure (EMS 10 03).
- 2.2.2 The report by TMS Environmental Ltd on suitable trigger levels and a storm water trigger level exceedance procedure which was uploaded to EDEN in 2016 was rejected by the EPA. Recommendations for 2017 for a revised submission of trigger levels can be seen on the EDEN Portal under the case number LR026452.
- 2.2.3 The EPA stated that the company must have a revised trigger level report by the 30th June 2017.
- 2.2.4 To meet the EPA requirements, samples were taken at different intervals in 2017 by staff personal and TMS Environmental personal at the facility. The company updated the EPA on 20th July 2017 that the reason the company and consultancy firm did not meet the deadline for the report was due to additional background samples being taken in an area which was experiencing low rainfall. The consultancy firm anticipated that a suitable report would be available by 30th September 2017.
- 2.2.5 Laboratory reports from the background samples showed elevated levels of zinc and trace amounts of lead. The company was granted permission from a premises within the business park to take samples from the run off from their roof to compare with The Recycling Village's background samples.
- 2.2.6 The company updated the EPA on 3rd October 2017 to state again that low rainfall in the area had slowed the sampling process down. A new date of 10th November 2017 was set to have a credible trigger level report by then.
- 2.2.7 The proposal for suitable trigger values for storm water discharges and the storm water trigger level exceedance procedure, produced by TMS Environmental Ltd, were uploaded to EDEN on 14th November 2017. The full report is still awaiting approval from the EPA. The report can be viewed on EDEN under case number, LR031940.

3 Waste management record.

3.1 Refer to Appendix 1.

4 Quantity and composition of waste accepted and recovered (classified by EWC)

4.1 Refer to Appendix 2.

5 Resource Consumption summary.

5.1 Refer to Appendix 3.

6 Complaints summary.

6.1 No complaints where received by The Recycling Village Ltd in 2017.

7 Schedule of Environmental Objectives and Targets.

- 7.1 The Environmental Management System (EMS) has been in place at The Recycling Village Ltd since August 2012. The EMS was certified to ISO 14001 in May 2013 and successfully passed annual surveillance audits in 2014, 2015, 2016 and 2017. The company is transitioning to ISO 14001:2015 and will be audited on the new standard this year. As such, a schedule of Environmental Management Programmes was already in place when Licence W0286-01 was granted to The Recycling Village Ltd by the Agency.
- 7.2 In accordance with Section 2.2.2 of the Licence, the Environmental Management Programmes already in progress at The Recycling Village Ltd, along with those previously completed, were assessed, and the top five priority objectives were identified and expanded to allow for the requirement that programmes must run continuously over a 5 year period.
- 7.3 The top five priority objectives for The Recycling Village Ltd (not listed by order of priority) are listed in the following table:

TABLE 1

1	PROGRAMME	Contractor and Supplier Evaluation
	OBJECTIVE	To continuously monitor and evaluate all contractors and suppliers to ensure compliance with relevant legislation and with RV's requirements
2	PROGRAMME	Energy and Raw Materials Use
	OBJECTIVE	To track energy use and raw material consumption on site and to reduce usage in comparison to previous years
3	PROGRAMME	Fire Prevention
	OBJECTIVE	To assess the risk of fires occurring on site and to implement strategies to reduce the impact of a potential fire on the surrounding environment
4	PROGRAMME	Materials Storage and Dispatch
	OBJECTIVE	To ensure the correct storage and dispatch of all materials to the correct locations with the correct documentation taking full consideration of applicable regulations
5	PROGRAMME	Domestic Water Use
	OBJECTIVE	To analyse the amount of water used on site and to reduce the quantity use or to supplement piped water use with rainwater use

- 7.4 Refer to Appendix 4 for the full 5 Year Environmental Management Plan.

8 Environmental management programme - report for 2017

8.1 Contractor and Supplier Evaluation:

8.1.1 The Contractor and Supplier Procedure (EMS 09 11) and the External Audit Checklist (EF 25) were reviewed, updated and approved by senior management. The downstream waste vendor's onsite audits took place in 2017. One company was audited in 2017. The External Audit Checklist (EF 25), which was used for the company audited, is held in the External Audits Folder at The Recycling Village Ltd.

8.2 Energy and Raw Materials Use:

8.2.1 The Recycling Village Ltd contacted a contractor to give the company an estimated cost for fitting the facility with LED lights in 2017. The company accepted the proposal and the contractor will replace the lights at the facility with LED lights in 2018. The Recycling Village Ltd collected energy invoices in 2017. Refer to section 15 of the AER for more details on energy saving opportunities.

8.3 Fire Prevention:

8.3.1 Quarterly servicing was carried out on the smoke alarm and detection system. Monthly fire alarm tests were carried out throughout 2017 to ensure that lights and sounders were operational, and four evacuation drills were carried out to ensure that the fire alarm system was working and that staff were aware of the procedure. Fire extinguisher testing was conducted on site in July 2017 by MRSK Safety. General fire safety training was carried out on new staff members in December 2017. Specific training with the Emergency Response Team was conducted in March 2017 for new emergency plans which were put in place to maintain onsite adequate equipment to protect the surface water yard drains from firewater. The plans were approved by the EPA in 2017. 50% of the dated fire extinguishers in the facility were replaced in 2017. No fires occurred on site in 2017.

8.4 Materials Storage and Dispatch

8.4.1 The waste storage plan and waste storage map were rejected by the agency on 29th December 2016, following a non-compliance which was received during a site visit by the EPA. The Recycling Village Ltd uploaded a waste storage plan update to the EDEN Portal on 13th February 2017, case no. LR 027390. The Recycling Village Ltd updated this waste storage plan in March 2017 as the company decided to move the SDA skip into the warehouse. This plan was uploaded on the 16th March 2017, case no. LR 027390. This storage plan was approved by the EPA in 2017. The Recycling Village Ltd proceeded to follow this approved waste storage plan.

8.5 Domestic Water Use

8.5.1 It was discovered in 2017 that there was a faulty ballcock in the gent's bathroom which kept water running in the urinal causing significant water loss. The facility started collecting daily meter readings and turned the water off at night at the premises. A contractor installed an on/off valve to turn the water off from inside the building and fixed the problem. The facility is collecting meter readings on a weekly basis now to track how much water is used and also to determine if leaks are present. No research was carried out in 2017 into domestic water use at The Recycling Village Ltd to clarify whether a rainwater harvesting system would be worth investing in.

9 Environmental management programme - proposal for 2018.

9.1 Contractor and Supplier Evaluation:

9.1.1 A documentation audit will be carried out on files held in The Recycling Village Ltd for contractors and suppliers, and requests for updated documents will be sent out to appropriate parties. Onsite audits will be conducted for downstream waste vendors in 2018. Prior to the audits, The Contractor and Supplier Procedure (EMS 09 11) will be updated, in line with the new ISO 14001:2015 standard. The External Audit Checklist (EF 25) will be reviewed and updated once the procedure is updated. The completed External Audit Checklist (EF 25) will be kept in the External Audits Folder when the downstream waste vendor's audits have taken place in 2018.

9.2 Energy and Raw Materials Use:

9.1.2 The Recycling Village Ltd will track energy invoices in 2018 to determine if the LED lights, once installed at the facility, are decreasing the electricity energy use and costs.

9.3 Fire Prevention:

9.3.1 Servicing of the fire alarm detection system will be carried out quarterly in 2018. General fire safety training for all employees will be conducted in March 2018. Specific training with the Emergency Response Team will take place in March 2018. Fire extinguisher testing will be conducted on site in July 2017 by MRSK Safety. The remaining dated fire extinguishers will be replaced in 2018.

9.4 Materials Storage and Dispatch

9.4.1 The Recycling Village Ltd sent an updated waste storage plan, for approval, to the EPA on 9th January 2018, case number. LR032663. The plan was to notify the EPA that the downstream vendor which the company used to recycle funnel glass would be unable to take it for the foreseeable future. It also stated that the company is attempting to find an alternative recycler which may take time and as this will take time, the maximum allowable quantity and holding period may be exceeded. The plan is yet to be approved by the agency. All operating procedures will be updated in 2018 in accordance with ISO 14001:2015.

9.5 Domestic Water Use

9.5.1 The facility will continue to track water usage through weekly meter readings. Research will be carried out in 2018 into domestic water use at The Recycling Village Ltd to clarify whether a rainwater harvesting system would be worth investing in.

10 Pollutant Release and Transfer Register - report for 2017.

10.1 Refer to Appendix 5

11 Noise monitoring report summary.

11.1 Noise monitoring was carried out onsite at The Recycling Village Ltd in August 2017 by TMS Environmental Ltd. The daytime, evening time and night time noise at the specified monitoring points where examined on this date.

11.2 Within Schedule B: Emission Limits, point 4, the licence states that:

Daytime dB(A) Lar (30 minutes)	Evening Time dB(A) Lar (30 Minutes)	Night-Time dB(A) LAeq (30 Minutes) ^{note 1}
55	50	45

Table 1: Noise Emission Limits

Note 1: There shall be no clearly audible tonal component or impulsive component in the noise emissions.

11.3 The daytime noise survey exceeded the 55 dB (A) at all four monitoring locations (N1, N2, N3, N4). The evening time noise survey exceeded the 50 dB (A) at one of the four noise monitoring locations (N1). The night time noise survey exceeded the 45 dB (A) at two of the four noise monitoring locations (N1, N2). The surveyor stated that in all instances where the noise was above the threshold value at the facility, external noise sources (noise not arising from the facility site or site activities), are to blame.

11.4 The noise monitoring report, which was prepared by TMS Environmental Ltd, can be viewed in full on the EDEN Portal. The report was uploaded on the 18th August 2017.

12 Ambient monitoring summary.

12.1 Dust Deposition Monitoring

12.1.1 In 2016, the facility received the consultant’s report for dust deposition monitoring which showed that TRV exceeded the licence limit of 350mg/m²/day at monitoring location D3. Within the report, the consultants stated that due to dry weather and businesses located around the facility, this could explain why the dust deposition was above the limit at D3. The EPA issued two non-compliances to The Recycling Village Ltd. The first been that the facility did not report the ELV as an incident and the second for the breach of the ELV. The EPA also made a request for information through the EDEN Portal, RI007155, for an interpretation on why metals, such as aluminium, lead and zinc where higher than background levels referenced in the dust deposition report. The Recycling Village Ltd responded to the EPA, through the EDEN Portal (case no. LR027732), on 3rd March 2017 to state that dust jars where requested by the facility and immediately put up by TMS Environmental Ltd on the 3rd February 2017, to support the suggestion that the elevated results were not attributed to the facility as the results at the D3 had lower or the same amount of the metals, mentioned above, as those at any of the other monitoring points.

12.1.2 From the above explanation, dust deposition monitoring for 2017 took place.

12.1.3 Schedule C.2.2 of the licence requires that dust levels be monitored on an annual basis. The schedule also states that metal content of the samples be analysed for the following metals: Al, As, Cd, Cr, Cu, Hg, Ni, Pb and Zn.

12.1.4 Dust monitoring commenced on the 3rd February 2017 and the jars were removed on the 3rd March 2017. The results can be seen in table 2 below.

Monitoring Location	Licence Limit-mg/m ² /day	Dust Levels Recorded-mg/m ² /day
D1	350	49.1
D2	350	80.9
D3	350	142.9
D4	350	133.4

Table 2: Dust deposition Monitoring Results

12.1.5 The Recycling Village Ltd responded to the request for information on the 20th March 2017. The results obtained for dust deposition were within the licence limits and supported the suggestion which is made above.

12.1.6 The response, in full, can be seen on the EDEN Portal, case no. LR 027217.

12.2 Groundwater Monitoring

12.2.1 TMS Environmental Ltd were commissioned by The Recycling Village Ltd to collect groundwater samples from the three onsite boreholes.

12.2.2 Groundwater analysis is required biannually under licence Schedule C.4.1 for ammonia, total coliforms, iron, pH, phosphate and potassium. Biennial analysis for relevant hazardous substances as per the 'Baseline Report' which, was submitted with the licence application, was conducted in 2017.

12.2.3 Samples were collected by TMS Environmental Ltd personally on the 2nd March and the 22nd November 2017 from all three boreholes (BH1, BH2 and BH3).

12.2.4 The samples which were taken on the 2nd March were tested for the general parameters and all relevant hazardous substances. The samples which were taken on the 22nd November were tested for the general parameters only.

12.2.5 The reports can be viewed in full on the EDEN Portal.

12.2.6 A detailed investigation of groundwater conditions at the site took place in 2017 by TMS Environmental Ltd. This work was aimed at getting an understanding of the wells at the site and establishing whether or not the shallow groundwater is in contact with the aquifer and whether lateral migration is occurring. The Recycling Village Ltd will be updating the EPA, through the EDEN Portal, in 2018 of further work to be carried out on the above points.

12.3 Soil Monitoring

- 12.3.1 Soil monitoring is required by the licence once every ten years, as such the next soil monitoring survey will be conducted in 2024.

13 Tank and pipeline testing and inspection report

- 13.1 Condition 6.9 of the licence states that, *'The integrity and water tightness of all underground pipes, tanks, bunding structures and containers and their resistance to penetration by water or other materials carried or stored therein shall be tested and demonstrated by the licensee. This testing shall be carried out by the licensee at least once every three years and reported to the Agency on each occasion. This testing shall be carried out in accordance with any guidance published by the Agency. A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee.'*

- 13.2 The Recycling Village Ltd conducted this testing in 2015. The report was uploaded in full to the EDEN Portal on the 28th January 2016. The company will be carrying out this testing again in 2018.

14 Reported incidents summary.

- 14.1 There was no reported incidences at the facility.

15 Energy efficiency audit report summary

15.1 The full Energy Audit Report was uploaded to the EDEN on 14th January 2016, case number LR 020324.

15.2 Five energy saving recommendations were made in the report.

Item	Saving Opportunity
1	Replace building lights with LED
2	Eliminate MIC excess charges
3	Eliminate wattless excess charges
4	Reduce day time load by 10% by implementing a site energy awareness/turn it off campaign
5	Reduce night time load by 10% by implementing an office energy awareness/turn it off campaign

Table 3: Energy Saving Opportunities included in the Energy Audit Report

15.3 In 2017, the facility contacted a contractor to give the company an estimated cost for fitting the facility with LED lights. The company accepted the proposal and LED lights will be fitted, by the contractor, in 2018.

15.4 The table below summarises the saving opportunities listed in table 3 above and compares figures from 2016 and 2017 for each saving opportunity.

Comparison of saving opportunities in 2016 and 2017			
Saving Opportunity	2017	2016	% Increase/Decrease
Eliminate MIC excess charges	€751.78	€1264.81	41%
Eliminate wattless excess charges	€44.06	€156.44	72%
Reduce day time load by 10%	74050 kWh	82450 kWh	10%
Reduce night time load by 10%	21550 kWh	24150 kWh	11%

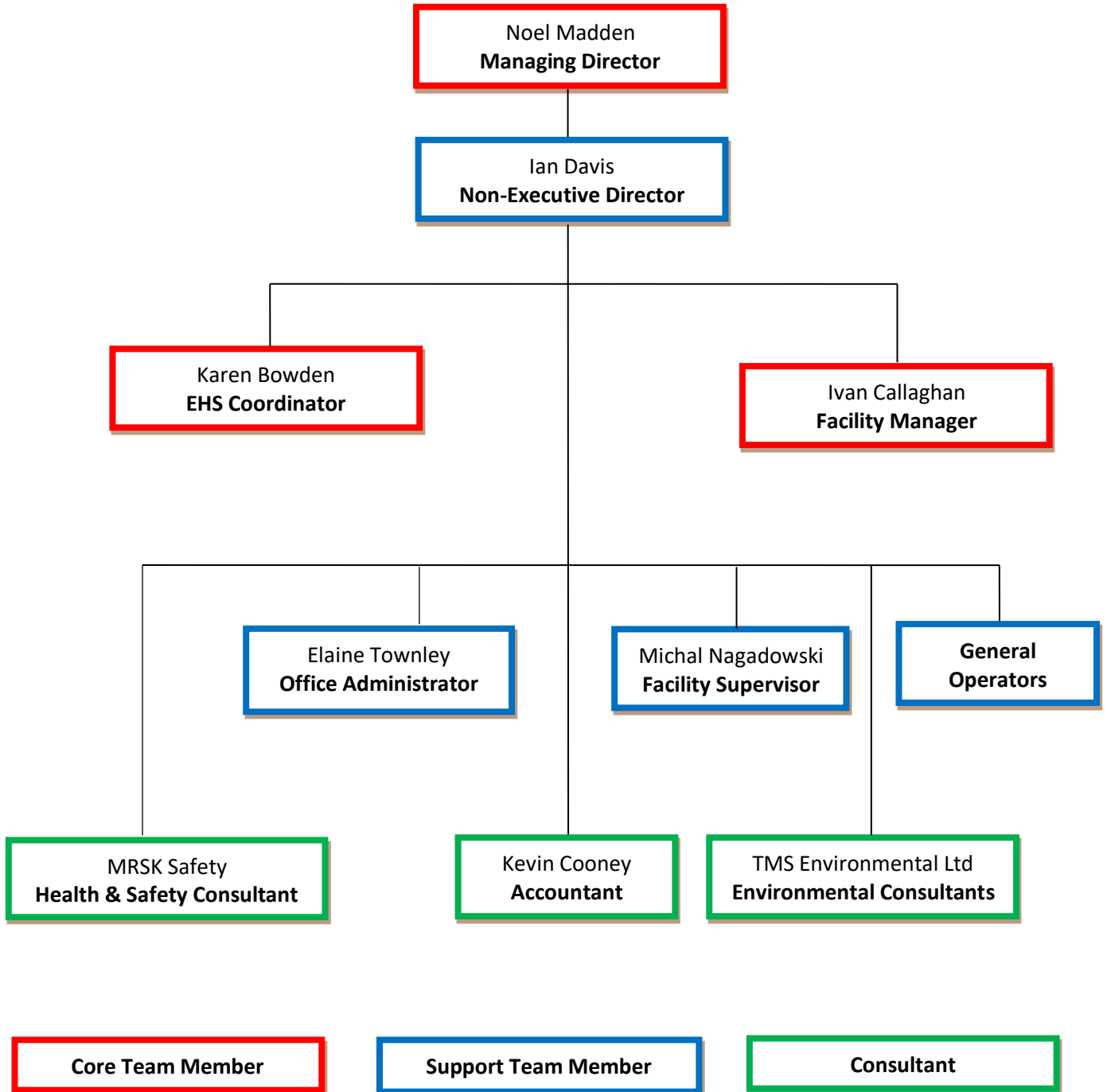
Table 4: Comparison of Saving Opportunities in 2016 and 2017

15.5 In 2016, The Recycling Village Ltd compiled all energy invoices from previous years at the company to determine if fluctuations had occurred in the energy consumption and the cost of energy.

15.6 The Recycling Village Ltd will continue to compile energy invoices in 2018 to determine if energy use will decrease with the implementing of LED lights in 2018.

- 16 Report on achievement of recycling/recovery targets in accordance with Condition 11.10.**
- 16.1 Refer to Appendix 6.
- 17 Report on the assessment of the efficiency of use of raw materials in processes and the reduction in waste generated.**
- 17.1 This section is not applicable to the processes carried out at the facility.
- 18 Report on progress made and proposals being developed to minimise water demand and the volume of trade effluent discharges.**
- 18.1 There is no trade effluent from site processes, as all dismantling and treatment operations performed on site are dry. Hence water is only used on site for domestic purposes.
- 18.2 Research will be carried out in 2018 into domestic water use at The Recycling Village Ltd to clarify whether a rainwater harvesting system would be worth investing in.
- 19 Reports on financial provision made under this licence, management and staffing structure of the facility, and a programme for public information.**
- 19.1 Financial Provisions made under the licence:**
- 19.1.1 An Environmental Impairment Liabilities (EIL) Insurance Policy was procured for The Recycling Village. The policy was approved by the agency on the EDEN Portal.
- 19.1.2 The policy was updated on the EDEN Portal in on 29th June 2017. The policy was approved on the 25th July 2017.

19.2 Management and Staffing Structure:



19.3 Programme for Public Information

- 19.3.1 An Installation Notice Board with the facility contact details was erected on the exterior to the left of the main reception area in March 2015. The information is legible to persons outside the main entrance to the facility. The company also have an up-to-date website from which members of the public can access contact details for the facility.
- 19.3.2 Methods for External Communications are documented in EMS 10 Communications Procedure (attached as Appendix 7).

20 Review of decommissioning management plan.

- 20.1 The first Decommissioning Management Plan (DMP) was submitted to the Agency on the 31st July 2015 through the EDEN Portal. The DMP was approved by the Agency on the 9th November 2015.
- 20.2 The DMP was reviewed in 2017 by The Recycling Village Ltd. The DMP will be updated by a consultant in 2018.

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

- 21.1 A Statement of Measures was prepared for The Recycling Village Ltd as part of the Environmental Liabilities Risk Assessment. A progress report has been compiled for the measures outlined in the ELRA and is attached as Appendix 8.

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

- 22.1 The first Environmental Liabilities Risk Assessment (ELRA), required under Condition 12.2.2 of Licence W0286-01, was submitted to the Agency on 6th August 2015 through the EDEN Portal. The ELRA was approved by the Agency on the 9th November 2015.
- 22.2 The ELRA was reviewed in 2017 by The Recycling Village Ltd. It will be updated by a consultant in 2018.

23 Any other items specified by the Agency.

- 23.1 Not applicable at present.

Appendix 1

Waste Management Record

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : W0286 | Facility Name : The Recycling Village Ltd | Filename : W0286_2017 (1).xls | Return Year : 2017 |

29/03/2018 12:08

Please enter all quantities on this sheet in Tonnes

3

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	Haz Waste : Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility	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		Non	Non	Non	Non	
To Other Countries	16 02 15	Yes	200.0	hazardous components removed from discarded equipment	R4	M	Weighed	Abroad	A Jansen BV,1457727	Postbus 60,Kanaaldijk Zuid 24,Son,5691 NL ,Netherlands	A Jansen BV,1457727,Postbus 60,Kanaaldijk Zuid 24,Son,5691 NL ,Netherlands	Postbus 60,Kanaaldijk Zuid 24,Son,5691 NL ,Netherlands	
To Other Countries	16 02 16	No	174.0	discarded equipment other than those mentioned in 16 02 15	R4	M	Weighed	Abroad	Hamerac GmbH ,120897475	Am Tyrol ,28,58675,Hemer ,Germany	Unit 648 Jordanstown Drive,Greenogue Business Park,Rathcoole,Co. Dublin,Ireland		
Within the Country	16 02 16	No	593.0	components removed from discarded equipment other than those mentioned in 16 02 15	R13	M	Weighed	Offsite in Ireland	Davis Recycling International Ltd,IRE/AG246/17				
To Other Countries	16 06 01	Yes	606.0	lead batteries	R4	M	Weighed	Abroad	HJ Enthoven & Sons Ltd,ERP BL5598IR	Darley Dale Smelter, South Darley,Matlock,DE4 2LP,United Kingdom	Darley Dale Smelter, South Darley,Matlock,DE4 2LP,United Kingdom	Darley Dale Smelter, South Darley,Matlock,DE4 2LP,United Kingdom	
To Other Countries	19 12 04	No	507.0	plastic and rubber	R13	M	Weighed	Abroad	WRC Recycling Ltd,IRE/AG121/17	St,Johnstone,Scotland,PA5 8QS,United Kingdom			
Within the Country	19 12 05	No	708.0	glass	R5	M	Weighed	Offsite in Ireland	John Gannon Concrete T/A Gannon Eco,WFP-WM-2014-05	Quarries,Kilbeggan,Co. Westmeath,N91 TNK3,Ireland			
Within the Country	19 12 07	No	19.5	wood other than that mentioned in 19 12 06	R3	M	Weighed	Offsite in Ireland	Panda Waste Service Ltd,W0140-03	Beauparc Business Park,Rathdrinagh,Navan Co. Meath,C15 P586,Ireland			
Within the Country	19 12 12	No	35.0	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D10	M	Weighed	Offsite in Ireland	Indaver Ireland Ltd Meath,W0167-03	Carranstown,Duleek,Co. Meath,A92 EP32,Ireland			
To Other Countries	20 01 21	Yes	2.0	fluorescent tubes and other mercury-containing waste	R4	M	Weighed	Abroad	Irish Lamp Recycling Ltd,WFP-KE-14-0072-01	Woodstock Industrial Estate ,Kilkenny Road,Athy Co. Kildare,R14 K889,Ireland	Woodstock Industrial Estate ,Kilkenny Road,Athy Co. Kildare,R14 K889,Ireland	East Ord Industrial Estate ,Berwick-upon-Tweed,Northumberland,TD1 5 2XF,United Kingdom	
Within the Country	20 01 36	No	52.0	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R13	M	Weighed	Offsite in Ireland	Electrical Waste Management Ltd,WFP-DS-11-0014-05	Unit 648 Jordanstown Drive,Greenogue Business Park,Rathcoole,Co. Dublin,Ireland			
Within the Country	20 01 36	No	112.0	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	D13	M	Weighed	Offsite in Ireland	KMK Metal Recycling Ltd,W0113-04	Cappincur Industrial Estate,Cappincur ,Tullamore Co. Offaly,R35 NY29,Ireland	Unit 648 Jordanstown Drive,Greenogue Business Park,Rathcoole,Co. Dublin,Ireland		
Within the Country	20 01 36	No	69.0	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R13	M	Weighed	Offsite in Ireland	Davis Recycling International Ltd,IRE/AG246/17				

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

Appendix 2

Quantity and composition of waste accepted and recovered (classified by EWC)

Quantity and Composition of Waste Accepted and Recovered in 2017 (Classified by EWC Code)

MATERIAL ACCEPTED		QUANTITY
EWC CODE	DESCRIPTION OF WASTE	TONNES
16 02 16	Components removed from discarded equipment other than those mentioned in 16 02 15	21.00
16 06 01*	Lead acid batteries and accumulators	588.00
20 01 35*	Discarded electronic and electrical equipment other than those mentioned in 20 01 21, 20 01 23 containing hazardous components	2737.00
20 01 36	Discarded electronic and electrical equipment other than those mentioned in 20 01 21, 20 01 23	345.00

Appendix 3

Resource Consumption Summary

Resource Consumption Summary 2017

RESOURCE	UNIT OF MEASUREMENT	QUANTITY	€
Public Water Supply	M ³	288	804
Air Emissions Filters	Unit	90	1827
Pallet Wrap	Roll	170	1105
Wire	Kgs	3400	6335
FIBC	Units	1850	8669
Strapping	Roll	8	632
ESB	KWh	95600	11821
Gas	KWh	35003	2565

Appendix 4

5 Year Environmental Management Plan



Page Number:	0 of 5	Prepared By:	K. Bowden	Signature:	<i>K Bowden</i>
EMS Clause No.:	6.2.2	Approved By:	N. Madden	Signature:	<i>N Madden</i>
EMS Ref. No.:	ER 007				
Rev. Number:	0				
Effective Date:	2/7/2018				

TITLE: FIVE YEAR ENVIRONMENTAL MANAGEMENT PROGRAMME

Summary of Programmes

1	PROGRAMME OBJECTIVE	Contractor and Supplier Evaluation To continuously monitor and evaluate all contractors and suppliers to ensure compliance with relevant legislation and with RV's requirements To update the contractor and supplier control procedure to include auditing requirements, to have all required documents on file in RV
	TARGETS	To produce a realistic auditing schedule, To have all required documents on file in RV
2	PROGRAMME OBJECTIVE	Energy and Raw Materials Use To track energy use and raw material consumption on site and to reduce usage in comparison to previous years
	TARGET	To reduce energy consumption by 5% annually
3	PROGRAMME OBJECTIVE	Fire Prevention To assess the risk of fires occurring on site and to implement strategies to reduce the impact of a potential fire on the surrounding environment
	TARGET	To have no fires occur at the facility and to have a well-developed impact mitigation strategy
4	PROGRAMME OBJECTIVE	Materials Storage and Dispatch To ensure the correct storage and dispatch of all materials to the correct locations with the correct documentation taking full consideration of applicable regulations
	TARGET	For all materials and accompanying paperwork to arrive at the correct location on schedule with no incidents or complaints from clients
5	PROGRAMME OBJECTIVE	Domestic Water Use To analyse the amount of water used on site and to reduce the quantity use or to supplement piped water use with rainwater use
	TARGET	To produce an accurate representation of how much water is used on site annually and to devise a plan to reduce consumption



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EMS Clause No.:	6.2.2	Approved By:	N. Madden	Signature:	<i>N Madden</i>
EMS Ref. No.:	ER 007				
Rev. Number:	0				
Effective Date:	2/7/2018				

TITLE: FIVE YEAR ENVIRONMENTAL MANAGEMENT PROGRAMME

PROGRAMME	Contractor and Supplier Evaluation				
OBJECTIVE	To continuously monitor and evaluate all contractors and suppliers to ensure compliance with relevant legislation and with RV's requirements				
TARGETS	To update the contractor and supplier control procedure to include auditing requirements, to have all required documents on file in RV To produce a realistic auditing schedule, To have all required documents on file in RV				
CATEGORY	Control / Maintain <input checked="" type="checkbox"/>	Improve <input checked="" type="checkbox"/>	Study / Investigate <input type="checkbox"/>		
STAGE	TASK	RESPONSIBILITY	POTENTIAL RESOURCES REQUIRED	REVISION	OUTPUT/COMMENTS
1	Review current procedure	EHS Coordinator	Time; appropriate computer software	At least annually	To be reviewed as part of EF 30, 001.
2	Review current checklist	EHS Coordinator	Time; appropriate computer software; access to company and standard requirements	At least annually	To be reviewed once EMS 09 11 is revised.
3	Propose feasible schedule for current year and subsequent years depending on audit frequency requirements	Environmental Management Team	Time; Contact with contractors and suppliers	Annually	EF 33
4	Review and approve updates to procedures and supporting documents	Managing Director	Time	As required	Procedures will be approved once updates have taken place.
5	Carry out audits	Environmental Management Team	Time; checklists; contact with contractors and suppliers; funding for travel expenses	As required	Onsite Audit dates to be confirmed.
6	Write reports and follow up on any non-conformances with audit requirements	Environmental Management Team	Time; appropriate computer software	As required	EF 25 - held in External Audits Folder
7	File relevant contractor and supplier document accordingly	EHS Coordinator; Office Administrator	Time; space for storing documents	As required	External Audits Folder



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EMS Ref. No.:	ER 007				
Rev. Number:	0				
Effective Date:	2/7/2018				

TITLE: FIVE YEAR ENVIRONMENTAL MANAGEMENT PROGRAMME

PROGRAMME	Energy and Raw Materials Use				
OBJECTIVE	To track energy use and raw material consumption on site and to reduce usage in comparison to previous years				
TARGET	To reduce energy consumption by 5% annually				
CATEGORY	Control / Maintain <input type="checkbox"/>	Improve <input checked="" type="checkbox"/>	Study / Investigate <input checked="" type="checkbox"/>		
STAGE	TASK	RESPONSIBILITY	POTENTIAL RESOURCES REQUIRED	REVISION	OUTPUT/COMMENTS
1	Collect energy invoices from previous years and data on raw materials use	EHS Coordinator	Invoices and data	Bimonthly	Site Energy Use Folder. Online billing with utilities providers allows bills to be obtained online
2	Create a spreadsheet of energy cost, energy usage, and raw materials consumption	EHS Coordinator	Time; appropriate computer software	As required	Programme Charter - ENV6 - Site Energy Use file
3	Conduct a site energy audit and investigate cost-effective methods for reducing consumption of energy and raw materials	Environmental Consultant	Environmental Consultant	Annually	Complete 23/12/2015 - EPA Reports uploaded to EDEN
4	Discuss and/or select energy consumption reduction strategies	Environmental Management Team	Time	As required	LED lighting to be fitted in the facility in 2018.
5	Implement new energy consumption reduction strategies	Environmental Management Team	Time; funding for implementing new strategies	As required	2018
6	Monitor the progress of implemented strategies by comparing invoices on a bimonthly basis to those from previous years to identify increases/decreases in energy usage and raw materials usage	EHS Coordinator	Invoices and data; time; appropriate computer software	Bimonthly	For heating bills, take account of yearly temperature fluctuations. For electricity and raw materials use take account of fluctuations in quantity of materials being processed
7	Compile a yearly energy and raw material usage report for management and report incidents where energy usage was higher than previous years	EHS Coordinator	Time; appropriate computer software	Annually	2018 data to be compared with 2017, 2016, 2015, 2014 and 2013 data. Refer to KPIs folder.



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EMS Ref. No.:	ER 007				
Rev. Number:	0				
Effective Date:	2/7/2018				

TITLE: FIVE YEAR ENVIRONMENTAL MANAGEMENT PROGRAMME

PROGRAMME	Fire Prevention				
OBJECTIVE	To assess the risk of fires occurring on site and to implement strategies to reduce the impact of a potential fire on the surrounding environment				
TARGET	To have no fires occur at the facility and to have a well-developed impact mitigation strategy				
CATEGORY	Control / Maintain <input checked="" type="checkbox"/>	Improve <input checked="" type="checkbox"/>	Study / Investigate <input checked="" type="checkbox"/>		
STAGE	TASK	RESPONSIBILITY	POTENTIAL RESOURCES REQUIRED	REVISION	OUTPUT/COMMENTS
1	Carry out risk assessment to determine if a fire-water retention facility is required; compile Fire Water Retention Report and submit to EPA	Managing Director and Environmental Compliance Officer	Require services of an environmental consultant and the local fire brigade; maps of the facility, all appropriate documentation relating to fire prevention on site	As determined by the EPA	Fire Water Retention Report - in EPA Reports 2015 EDEN folder
2	Obtain quotations for a smoke detection system for the facility	Managing Director and Facility Manager	Contact details for companies	n/a	Fire Response Equipment Folder
3	Have a meeting with Meath Fire Brigade to discuss fire risk and firewater retention requirements at the facility	Managing Director and Facility Manager	Consent of Meath Fire Brigade	n/a	Certificates in Fire Response Equipment Folder
4	Carry out routine evacuation drill to ensure fire alarm system is working and that staff are aware of the procedure #1	Facility Manager	List of staff on site that day	At least annually	To be determined later in the year.
5	Carry out specific annual training in Emergency Response Procedures for dedicated team	Facility Manager and EHS Coordinator	Health and safety consultant	Annually	Completed 15th March 2017. Certificates in Fire Response Equipment Folder. Training to take place in March 2018.
6	Carry out annual fire extinguisher tests	Managing Director and Facility Manager	Health and safety consultant	Annually	To be carried out on the 31-07-18
7	Carry out annual fire safety training	Health and Safety Consultant	Services of a Health and Safety Consultant; staff time to attend training; appropriately qualified trainer; funding	Annually	To be carried out in March 2018.
8	Amend Fire-Water Retention Report as required by EPA	Managing Director and Environmental Compliance Officer	Environmental consultant	As required by the EPA	Completed in 2017.
9	Carry out annual fire hydrant tests	Managing Director and Facility Manager	Health and Safety Consultant; Fire hydrant testing company	Annually	Tested 19/12/2017 by H&S Consultant and Facility Manager.
10	Carry out routine evacuation drill to ensure fire alarm system is working and that staff are aware of the procedure #2	Facility Manager	List of staff on site that day	At least annually	To be determined later in the year.
11	Update Fire Response Flow Chart	EHS Coordinator	Appropriate computer software	Biennially	Fire Response flow chart was updated on 6th March 2017. Can be found in the Fire Response Equipment Folder
12	Distribute Fire Flow Chart Around Site	EHS Coordinator	Access to facility notice boards	Biennially	Fire Response Equipment Folder
13	Audit all previous fire-related programmes, risk assessments, prevention strategies and response procedures to identify whether recommendations etc. are being implemented	EHS Coordinator	Access to appropriate documentation; appropriate computer software	Biennially	EMS 10 01 and EMS 10 03 have been updated to include the insertion of a drain plug in SW4 in the case of a fire or a large spill, the use of AQUA-SACS and booms in the event of a fire to protect the drains from being contaminated with firewater. The H+S Consultant has trained the ERT in this equipment to protect the drains, interceptor and SW4.
14	Install smoke detection system once a satisfactory quotation is obtained	Managing Director and Facility Manager; Accountant	Adequate funding; satisfactory quotation and documents from contracted company (refer to EMS 09 11 Section 8.0); platform hoist	n/a	Fire Response Equipment Folder
15	Servicing of the smoke detection system	Facility Manager and Fire Alarm and Detection Maintenance Company	Fire Alarm and Detection Maintenance Company	Quarterly	First service took place on 06/02/18. Servicing will take place in the remaining quarters in 2018.
16	Have plan of installation printed on durable material and placed as close as possible to the entrance of the installation.	Managing Director and Facility Manager	Architect; funding; adequate space and tools to erect plan	As required by the EPA	Complete - plan on display in Reception
17	Investigate methods to retain firewater and cover gullies.	Facility Manager, EHS Coordinator	Funding; Health and Safety Consultant.	As required by the EPA	EMS 10 01 and EMS 10 03 have been updated to include the insertion of a drain plug in SW4 in the case of a fire or a large spill, the use of AQUA-SACS and booms in the event of a fire to protect the drains from being contaminated with firewater. The H+S Consultant has trained the ERT in this equipment to protect the drains, interceptor and SW4.
18	Assess whether hazardous wastes and flammable materials are being properly stored to prevent fires	Facility Manager	Facility Manager checks all haz wastes	Weekly / Monthly	Checked when waste quantities change - monitored by Facility Manager
19	Assess whether plant equipment is being properly maintained to prevent electrical fires	Facility Manager and Facility Supervisor	Equipment maintenance list; recommendations from equipment suppliers	Daily / Monthly	Daily checklist EF 18 & EF01 - updated by Facility Manager/Supervisor. Equipment Maintenance Folder
20	Carry out monthly fire alarm tests to ensure lights and sounders are operational	Facility Manager	Time	Monthly	Fire Response Equipment Folder
21	Monthly checks on the fire alarm panel	Facility Manager	Time	Monthly	Daily checklist EF 18 & EF 01 - updated by Facility Manager
22	Replacing dated fire extinguishers	Health and Safety Consultant	Services of Health and Safety Consultant; Time; Funding	n/a	50% of dated fire extinguishers have been replaced, the other dated fire extinguishers will be replaced in 2018.
23	Connecting the current alarm system to the fire alarm system	Health and Safety Consultant and Facility Manager	Contact details for companies; Funding	n/a	CSL DualCam



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EMS Ref. No.:	ER 007				
Rev. Number:	0				
Effective Date:	2/7/2018				

TITLE: FIVE YEAR ENVIRONMENTAL MANAGEMENT PROGRAMME

PROGRAMME	Materials Storage and Dispatch				
OBJECTIVE	To ensure the correct storage and dispatch of all materials to the correct locations with the correct documentation taking full consideration of applicable regulations				
TARGET	For all materials and accompanying paperwork to arrive at the correct location on schedule with no incidents or complaints from clients				
CATEGORY	Control / Maintain <input type="checkbox"/>	Improve <input checked="" type="checkbox"/>	Study / Investigate <input type="checkbox"/>		
STAGE	TASK	RESPONSIBILITY	POTENTIAL RESOURCES REQUIRED	REVISION	OUTPUT/COMMENTS
1	Develop an onsite Waste Storage Plan that can be manipulated in real time	Facility Manager	Time; appropriate computer software	As required	Complete - Facility Manager
2	Update operating procedures and site maps if required	Facility Manager and EHS Coordinator	Time; appropriate computer software; architects	As required	Site map to be updated once EPA approve of new storage areas. Operating procedures to be updated in 2018 in accordance with ISO 14001:2015
3	Develop a logistics folder with all information regarding client specifications for their material	Facility Manager	Time; appropriate computer software; contact with clients	As required	Completed - ENV 9 Logistics Folder
4	Add in information regarding environmental concerns and health and safety requirements	Facility Manager and EHS Coordinator	Time to review appropriate legislation and requirements	As required	Completed - ENV 9 Logistics Folder
5	Train required personnel in specifications and requirements - share the folder on the company server	Facility Manager and EHS Coordinator	Appropriately qualified trainers; time	As required	Completed - ENV 9 Logistics Folder
6	Monitor dispatches and check paperwork to ensure conformity with requirements	Facility Manager and EHS Coordinator	Time; access to dispatch documentation	Continuously	Ongoing
7	Report incidents to top management if they arise and devise solutions	EHS Coordinator	Time to prepare reports and consult with management; appropriate computer software to prepare reports	As required	EF 11 - Incident Record



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EMS Ref. No.:	ER 007				
Rev. Number:	0				
Effective Date:	2/7/2018				

TITLE: FIVE YEAR ENVIRONMENTAL MANAGEMENT PROGRAMME

PROGRAMME	Domestic Water Use				
OBJECTIVE	To analyse the amount of water used on site and to reduce the quantity use or to supplement piped water use with rainwater use				
TARGET	To produce an accurate representation of how much water is used on site annually and to devise a plan to reduce consumption				
CATEGORY	Control / Maintain <input type="checkbox"/>	Improve <input checked="" type="checkbox"/>	Study / Investigate <input checked="" type="checkbox"/>		
STAGE	TASK	RESPONSIBILITY	POTENTIAL RESOURCES REQUIRED	REVISION	OUTPUT/COMMENTS
1	Establish the annual volume and costs of domestic water used at the site	Environmental Management Team	Time; data; appropriate computer software	Annually	Water meter readings are taken weekly and will be compared to water bills when the facility receives them.
2	Have site plumbing assessed for leaks / dripping faucets / inefficient flushing systems etc.	Facility Manager; Plumber	Time; plan of facility indicating domestic water infrastructure	As required	The facility was assessed in 2017 as water was been lost in the gents bathroom as water kept running through the urinals. An on/off valve was fitted in the facility and the water is now shut off every night.
3	Investigate the market for water saving products eg. push button flushers on urinals etc. and rainwater harvesting solutions	Environmental Management Team	Internet/telephone	As required	Ongoing
4	Research other water saving strategies / campaigns - add to staff training	EHS Coordinator	Internet/telephone	As required	Ongoing
5	Obtain and assess quotes for appropriate strategies	Environmental Management Team	Contact with companies providing solutions	As required	Ongoing
6	Decide on appropriate strategies to be implemented	Managing Director	Time; adequate funds	As required	Ongoing
7	Implement strategies, carry out any necessary training and review strategies on a monthly basis	Environmental Management Team	Time; adequate funds; data to compare	As required	On/off valve fitted in 2017; meter readings recorded weekly.

Appendix 5

Pollutant Release and Transfer Register

Guidance to completing the PRTR workbook

PRTR Returns Workbook

Version 1.1.19

REFERENCE YEAR	2017
-----------------------	------

1. FACILITY IDENTIFICATION

Parent Company Name	The Recycling Village Limited
Facility Name	The Recycling Village Ltd
PRTR Identification Number	W0286
Licence Number	W0286-01

Classes of Activity	
No.	class_name
-	Refer to PRTR class activities below

Address 1	Unit 21
Address 2	Duleek Business Park
Address 3	Commons
Address 4	Duleek
	Meath
Country	Ireland
Coordinates of Location	-6.407799811 53.66388532
River Basin District	IIEA
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	
AER Returns Contact Email Address	
AER Returns Contact Position	
AER Returns Contact Telephone Number	
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	24
User Feedback/Comments	
Web Address	www.therecyclingvillage.ie

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
5(a)	Installations for the recovery or disposal of hazardous waste

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

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

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

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

[PRTR# : W0285] Facility Name : The Recycling Village Ltd | Filename : W0285_2017 (1).xls | Return Year : 2017 |

23/03/2019 12:05

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASERS TO AIR		METHOD				Please enter all quantities in this section in KGs			
POLLUTANT		Method Used				QUANTITY			
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	
17	Arsenic and compounds (as As)	M	ALT	EN 14385:2013	0.1	0.1	0.0	0.0	0.0
18	Cadmium and compounds (as Cd)	M	ALT	EN 14385:2013	0.01	0.01	0.0	0.0	0.0
19	Chromium and compounds (as Cr)	M	ALT	EN 14385:2013	0.65	0.65	0.0	0.0	0.0
20	Copper and compounds (as Cu)	M	ALT	EN 14385:2013	20.6	20.6	0.0	0.0	0.0
21	Mercury and compounds (as Hg)	M	ALT	EN 14385:2013	0.02	0.02	0.0	0.0	0.0
22	Nickel and compounds (as Ni)	M	ALT	EN 14385:2013	0.69	0.69	0.0	0.0	0.0
23	Lead and compounds (as Pb)	M	ALT	EN 14385:2013	1.65	1.65	0.0	0.0	0.0
24	Zinc and compounds (as Zn)	M	ALT	EN 14385:2013	5.77	5.77	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

RELEASERS TO AIR		METHOD				Please enter all quantities in this section in KGs			
POLLUTANT		Method Used				QUANTITY			
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	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)

RELEASERS TO AIR		METHOD				Please enter all quantities in this section in KGs			
POLLUTANT		Method Used				QUANTITY			
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	
355	Aluminium	M	ALT	EN 14385:2013	6.0	6.0	0.0	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: Please enter summary data on the quantities of methane flared and / or utilised	The Recycling Village Ltd				Facility Total Capacity m3 per hour
	T (Total) kg/Year	M/C/E	Method Code	Designation or Description	
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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

[PRTR# : W0266 | Facility Name : The Recycling Village Ltd | Filename : W0266_2017 (1).xls | Return Year : 2017]

29/03/2018 12:08

Please enter all quantities on this sheet in Tonnes

3

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	Haz Waste : Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility	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		Non	Non Haz Waste : Address of Recover/Disposer	Non	Non	Non
To Other Countries	16 02 15	Yes	200.0	hazardous components removed from discarded equipment	R4	M	Weighed	Abroad	A Jansen BV,1457727		Postbus 60,Kanaaldijk Zuid 24,Son,5691 NL ,Netherlands	A Jansen BV,1457727,Postbus 60,Kanaaldijk Zuid 24,Son,5691 NL ,Netherlands	Postbus 60,Kanaaldijk Zuid 24,Son,5691 NL ,Netherlands
To Other Countries	16 02 16	No	174.0	discarded equipment other than those mentioned in 16 02 15	R4	M	Weighed	Abroad	Hamerac GmbH ,120897475		Am Tyrol ,28,58675,Hemer ,Germany	Unit 648 Jordanstown Drive,Greenogue Business Park,Rathcoole,Co. Dublin,Ireland	
Within the Country	16 02 16	No	593.0	components removed from discarded equipment other than those mentioned in 16 02 15	R13	M	Weighed	Offsite in Ireland	Davis Recycling International Ltd,Ireland/AG246/17				
To Other Countries	16 06 01	Yes	606.0	lead batteries	R4	M	Weighed	Abroad	HJ Enthoven & Sons Ltd,ERP BL5598IR		Darley Dale Smelter, South Darley,Matlock,DE4 2LP,United Kingdom	HJ Enthoven & Sons Ltd,ERP BL5598IR,Darley Dale Smelter, South Darley,Matlock,DE4 2LP,United Kingdom	Darley Dale Smelter, South Darley,Matlock,DE4 2LP,United Kingdom
To Other Countries	19 12 04	No	507.0	plastic and rubber	R13	M	Weighed	Abroad	WRC Recycling Ltd,Ireland/AG121/17		St,Johnstone,Scotland,PA5 8QS,United Kingdom		
Within the Country	19 12 05	No	708.0	glass	R5	M	Weighed	Offsite in Ireland	John Gannon Concrete T/A Gannon Eco,WFP-WM-2014-05		Quarries,Kilbeggan,Co. Westmeath,N91 TNK3,Ireland		
Within the Country	19 12 07	No	19.5	wood other than that mentioned in 19 12 06	R3	M	Weighed	Offsite in Ireland	Panda Waste Service Ltd,W0140-03		Beauparc Business Park,Rathdrinagh,Navan Co. Meath,C15 P586,Ireland		
Within the Country	19 12 12	No	35.0	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D10	M	Weighed	Offsite in Ireland	Indaver Ireland Ltd Meath,W0167-03		Carranstown,Duleek,Co. Meath,A92 EP32,Ireland		
To Other Countries	20 01 21	Yes	2.0	fluorescent tubes and other mercury-containing waste	R4	M	Weighed	Abroad	Irish Lamp Recycling Ltd,WFP-KE-14-0072-01		Woodstock Industrial Estate ,Kilkenny Road,Athy Co. Kildare,R14 K889,Ireland	Future Industrial Services Ltd,EPR KP3437TF,East Ord Industrial Estate ,Berwick-upon-Tweed,Northumberland,TD1 5 2XF,United Kingdom	East Ord Industrial Estate ,Berwick-upon-Tweed,Northumberland,TD1 5 2XF,United Kingdom
Within the Country	20 01 36	No	52.0	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 35	R13	M	Weighed	Offsite in Ireland	Electrical Waste Management Ltd,WFP-DS-11-0014-05		Unit 648 Jordanstown Drive,Greenogue Business Park,Rathcoole,Co. Dublin,Ireland		
Within the Country	20 01 36	No	112.0	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 35	D13	M	Weighed	Offsite in Ireland	KMK Metal Recycling Ltd,W0113-04		Cappincur Industrial Estate,Cappincur ,Tullamore Co. Offaly,R35 NY29,Ireland		
Within the Country	20 01 36	No	69.0	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 35	R13	M	Weighed	Offsite in Ireland	Davis Recycling International Ltd,Ireland/AG246/17		Unit 648 Jordanstown Drive,Greenogue Business Park,Rathcoole,Co. Dublin,Ireland		

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

Appendix 6

**Report on achievement of recycling/recovery targets in accordance with
Condition 11.10**

CRT TELEVISIONS

Fraction	% Mass	EWC Codes	Secondary Treatment Facility / Broker	Recovery Rate Achieved (%)	Recycling Rate Achieved (%)	Tertiary Treatment Facility / Broker	Recovery Rate Achieved (%)	Recycling Rate Achieved (%)	Quaternary Treatment Facility / Broker	Recovery Rate Achieved (%)	Recycling Rate Achieved (%)
CLEAN GLASS			CLEAN GLASS			CLEAN GLASS			CLEAN GLASS		
Panel Glass	35	19 12 05	John Gannon Concrete Ltd T/A Gannon Eco	100%	100%						
FERROUS			FERROUS			FERROUS			FERROUS		
Masks & Bands	9	16 02 16	Davis Recycling International Ltd	n/a	n/a	TBC	TBC	TBC			
Speakers & Screws	1										
FUNNEL GLASS			FUNNEL GLASS			FUNNEL GLASS			FUNNEL GLASS		
Funnel Glass	21	16 02 15*	A. Jansen B.V.	100	100						
HAZARDOUS WASTE			HAZARDOUS WASTE			HAZARDOUS WASTE			HAZARDOUS WASTE		
PCB Capacitors	<1	16 02 09*	G&P Batteries	n/a	n/a	Ripon Recycling	TBC	TBC			
NON-FERROUS			NON-FERROUS			NON-FERROUS			NON-FERROUS		
Copper Yokes	3	16 02 16	Davis Recycling International Ltd	n/a	n/a	The Remet Company Ltd	n/a	n/a	Various	100	100
Cable	1								Various	100	100
Degauss Cable	1								Various	100	100
Plugtops	<1								Various	100	100
Electron Guns	<1								Various	100	100
PCB G3	9	16 02 16	Hamarec GmbH	100	96						
PLASTIC			PLASTIC			PLASTIC			PLASTIC		
Plastic	17	19 12 04	WRC Recycling	n/a	n/a	Various	97.5	99.3			
RESIDUE			RESIDUE			RESIDUE			RESIDUE		
Residue	2	19 12 12	Panda Waste Management Solutions	TBC	0						
Wood Residue	1	19 12 07	Panda Waste Management Solutions	100	0						

FPD TELEVISIONS

Fraction	% Mass	EWC Codes	Secondary Treatment Facility / Broker	Recovery Rate Achieved (%)	Recycling Rate Achieved (%)	Tertiary Treatment Facility / Broker	Recovery Rate Achieved (%)	Recycling Rate Achieved (%)	Quaternary Treatment Facility / Broker	Recovery Rate Achieved (%)	Recycling Rate Achieved (%)
FERROUS			FERROUS			FERROUS			FERROUS		
Steel	40	16 02 16	Davis Recycling International Ltd	n/a	n/a	TBC	TBC	TBC			
Speakers & Screws											
HAZARDOUS WASTE			HAZARDOUS WASTE			HAZARDOUS WASTE			HAZARDOUS WASTE		
CCFL Bulbs	<1	20 01 21*	Irish Lamp Recycling Ltd	90.30	88.20	Unknown	90.3	88.2			
						Gannon Eco	90.3	88.2			
						Future Industrial Services Ltd	90.3	88.2			
NON-FERROUS			NON-FERROUS			NON-FERROUS			NON-FERROUS		
Aluminium	7	16 02 16	Davis Recycling International Ltd	n/a	n/a	The Remet Company Ltd	n/a	n/a	Various	100	100
Aluminium Plasma									Various	100	100
FPD PCB G1	<1								Various	100	100
FPD PCB G2	2.5								Various	100	100
Ribbon Cable	<1								Various	100	100
Cable									Various	100	100
Floppy Disc Drives	<1								Various	100	100
Heatsinks	1								Various	100	100
Plugtops	<1	Various	100	100							
PCB G3	5.5	16 02 16	Hamarec GmbH	100	96						
PLASTIC			PLASTIC			PLASTIC			PLASTIC		
ABS	21	19 12 04	WRC Recycling	n/a	n/a	Various	97.5	99.3			
PMMA	6										
GPPS	1.5										
Film	1.7										
RESIDUE			RESIDUE			RESIDUE			RESIDUE		
Screen	6	19 12 12	Indaver Ireland Ltd	100	0						
Residue	2.1										
Plasma Glass	5.2					19 12 12	John Gannon Concrete Ltd T/A Gannon Eco	100	100		

UPS

Fraction	% Mass	EWC Codes	Secondary Treatment Facility / Broker	Recovery Rate Achieved (%)	Recycling Rate Achieved (%)	Tertiary Treatment Facility / Broker	Recovery Rate Achieved (%)	Recycling Rate Achieved (%)	Quaternary Treatment Facility / Broker	Recovery Rate Achieved (%)	Recycling Rate Achieved (%)
FERROUS											
Steel	25	16 02 16	Davis Recycling International Ltd	n/a	n/a	TBC	TBC	TBC			
NON-FERROUS											
Power Supply	4	16 02 16	Davis Recycling International Ltd	n/a	n/a	The Remet Company Ltd	n/a	n/a	Various	100	100
Transformer	<1								Various	100	100
Copper Cable	<1								Various	100	100
Heatsink (Au)	<1								Various	100	100
PCB Grade 3	<1	16 02 16	Hamarec GmbH	100	96						
BATTERIES											
Battery Lead Acid <10	70	16 06 01*	H.J. Enthoven	98.7	82.5						

PC

Fraction	% Mass	EWC Codes	Secondary Treatment Facility / Broker	Recovery Rate Achieved (%)	Recycling Rate Achieved (%)	Tertiary Treatment Facility / Broker	Recovery Rate Achieved (%)	Recycling Rate Achieved (%)	Quaternary Treatment Facility / Broker	Recovery Rate Achieved (%)	Recycling Rate Achieved (%)
FERROUS			FERROUS			FERROUS			FERROUS		
Steel	67	16 02 16	Davis Recycling International Ltd	n/a	n/a	TBC	TBC	TBC			
NON-FERROUS			NON-FERROUS			NON-FERROUS			NON-FERROUS		
Hard Disk Drives	1.5	16 02 16	Davis Recycling International Ltd	n/a	n/a	The Remet Company Ltd	n/a	n/a	Various	100	100
Floppy Disk Drives	6.7								Various	100	100
Heatsink (Au)	1.5								Various	100	100
Heatsink (Cu)	1.6								Various	100	100
PCB Grade1	6								Various	100	100
Ribbon Cable	1.2								Various	100	100
Power Supply	8								Various	100	100
Processor Plastic	<1								Various	100	100
Processor Ceramic	<1								Various	100	100
Processor Block	<1								Various	100	100
RAM	<1	Various	100	100							
PLASTIC			PLASTIC			PLASTIC			PLASTIC		
Plastic	5.6	19 12 04	WRC Recycling	n/a	n/a	Various	97.5	99.3			

Appendix 7

EMS 10 Communications Procedure



Page Number:	1 of 5	Prepared By:	K. Bowden	Signature:	<i>K Bowden</i>
EMS Clause No.:	7.4	Approved By:	N. Madden	Signature:	<i>N Madden</i>
EMS Ref. No.:	EMS 10				
Rev. Number:	0				
Effective Date:	14/12/2017				

TITLE: COMMUNICATION PROCEDURE**1.0 PURPOSE**

- 1.1 Effective communication is essential to ensure the successful implementation and operation of the EMS.
- 1.2 This procedure outlines how The Recycling Village Ltd communicates internally and externally in relation to environmental issues.
- 1.3 The procedure ensures that personnel at all levels within the organisation are encouraged and facilitated to make proposals for improvements, and submit relevant comments on the EMS.
- 1.4 The procedure also provides the mechanisms by which: complaints are recorded against The Recycling Village Ltd or are made against offending parties; environmental incidents are recorded and communicated to relevant bodies; and how complaints and incidents are registered within the company.
- 1.5 The purpose of this procedure is to comply with Clause 7.4 of ISO 14001:2015.

2.0 SCOPE

- 2.1 This procedure describes how The Recycling Village Ltd carries out internal and external communications relating to environmental issues.

3.0 RELATED DOCUMENTS

- 6.1.1 ER 003 Environmental Opportunities Register
- 7.4 ER 008 Complaints and Incidents Register
- 7.2, 7.3 EF 06 Environmental Awareness/Training Schedule
- 7.4 EF 09 External Communication Record
- 7.4 EF 10 Complaint Record (Complaints Made Against The Recycling Village Ltd)
- 7.4 EF 11 Environmental Incident Record
- 7.4 EF 12 Complaint Record (Complaint Made By The Recycling Village Ltd)



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EMS Ref. No.:	EMS 10				
Rev. Number:	0				
Effective Date:	14/12/2017				

TITLE: COMMUNICATION PROCEDURE

4.0 RESPONSIBILITY

- 4.1 It is the responsibility of the Managing Director to ensure that adequate resources are allocated for this procedure to be implemented.
- 4.2 It is the responsibility of the Facility Manager to act as a point of contact between General Operators and the Environmental Management Team.
- 4.3 It is the responsibility of the EHS Coordinator to document all internal and external communications relating to environmental issues and for ensuring that this procedure is properly implemented.



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EMS Ref. No.:	EMS 10				
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TITLE: COMMUNICATION PROCEDURE

5.0 PROCEDURE

Internal Communications

5.1 The EHS Coordinator is responsible for ensuring that environmental issues are communicated directly to the employees at The Recycling Village Ltd by methods such as:

- Regular Environmental Management Team meetings
- Direct communication by phone, email or personal meetings
- Environmental awareness programme
- Induction training
- Staff notice boards

5.2 Internal communications shall include information on;

- Environmental policy, objectives and targets
- Opportunities for individuals to contribute
- Current environmental issues and projects
- Compliance obligations
- Opportunities for improvement
- Reoccurring non-conformances with the standards set by the EMS
- Benefits of environmental management
- Contact details for further information
- Environmental incidents that arise on-site

5.3 In order to ensure that personnel at all levels within The Recycling Village Ltd are encouraged and facilitated to make proposals for improvements, The Recycling Village Ltd has established an improvement proposal form (EF 33). Copies of the forms are located on the staff notice board in the canteen and all interested parties can lodge environmental improvement suggestions or comments.

5.4 The EHS Coordinator is responsible for ensuring that all suggestions are reviewed and the originator responded to in a timely manner. All appropriate suggestions will be discussed at the environmental team meetings and may form part of the future EMS environmental improvement programmes.

5.5 Environmental incidents which arise onsite that are wholly the responsibility of The Recycling Village Ltd are recorded on EF 11 Environmental Incident Record.



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TITLE: COMMUNICATION PROCEDURE

- 5.6 The Record must be completed in full by the relevant internal party and returned to the EHS Coordinator, who is responsible for filing the incident report; registering the incident on ER 008 Complaints and Incidents Register; and following up with any required actions, i.e. issuing non-conformances, inspecting corrective actions, or informing relevant external bodies.

External Communications

- 2.3 External communication is achieved through a variety of means including:
- Receiving updates on changes in Environmental Legislation
 - Making and receiving environmental complaints
 - Sharing environmental data with regulatory bodies
 - Attendance at relevant environmental seminars
 - Participation in specialist environmental working groups
 - The Recycling Village Ltd web site
- 5.4 The EHS Coordinator is responsible for ensuring that all relevant environmental issues are communicated externally as required and by appropriate means e.g., e-mail, Annual Environmental Returns, EDEN Portal, reports, presentations, correspondence etc.
- 5.5 Environmental data will be shared with several external organisations as required, such as: the EPA; Meath County Council; the WEEE Recycling Compliance Schemes; the WEEELABEX Organisation; The Inland Fisheries Board; Irish Water; The TFS Office; environmental consultants and clients.
- 5.6 All records of general external environmental communications will be logged in EF 09.
- 5.7 When an environmental issue arises on site or on route to The Recycling Village Ltd, which is partially or wholly the responsibility of an external party, a complaint is issued to the offending party using EF 12 Complaint Record (Complaint Made By The Recycling Village Ltd).
- 5.8 When an environmental issue arises which is partially or wholly the responsibility of The Recycling Village Ltd, a record of any complaint made by an external party against The Recycling Village Ltd is recorded and followed-up using EF 10 Complaint Record (Complaint Made Against The Recycling Village Ltd).
- 5.9 All complaints made by or against The Recycling Village Ltd are registered on ER 008 Complaints and Incidents Record.



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- 5.10 In accordance with the conditions of Industrial Emissions Licence Register Number W0286-01, all of the following situations constitute reportable incidents, which must be logged with the EPA through the EDEN Portal:
- an environmental emergency;
 - any emission which does not comply with the requirements of the licence;
 - any exceedance of the daily duty capacity of the waste handling equipment;
 - any trigger level specified in the licence which is attained or exceeded; and,
 - any indication that environmental pollution has, or may have, taken place.
- 5.11 The Recycling Village Ltd has decided not to publish an external annual report for public dissemination regarding its significant environmental aspects. Instead, requests for information relating to significant aspects shall be dealt with on a case by case basis.

Appendix 8

Statement of Measures in Relation to Prevention of Environmental Damage and Remedial Actions

Risk ID	Potential Risk	Risk Score	Mitigation Measures to be Taken	Actions Taken in 2017
1	Receiving unacceptable waste consignments	12	Carry out an effectiveness audit of waste acceptance and waste quarantined procedures e.g. EMS 09 09. Ensure audits of waste haulage companies and waste facilities are appropriate and up to date.	Effectiveness audit of waste handling procedures was conducted in October 2017. The Waste Storage Plan submitted to the EPA was approved in March 2017. The facility is awaiting approval from the agency for an update on the waste storage plan which was updated and uploaded to EDEN in January 2018. Both storage plans were finalised by management and waste handling documented procedures will be updated in 2018 if any changes arise. External Audits are conducted at periodic intervals. The schedule for 2017 was approved and one audit was carried out. The schedule for 2018 has been drawn up and is awaiting approval. A documentation audit was carried out on waste contractors and requests for updated documents were made to the relevant companies.
4	Materials Storage	12	Carry out an effectiveness audit of waste storage procedures e.g. EF 01, EMS 09 03, 09 05, 09 09, Ground Floor Plan 12039-LA-04 and Yard Management Plan 12039-LA-03. Carry out regular checks of spill kits.	Effectiveness audit of waste handling procedures was conducted in October 2017. Waste handling documented procedures and maps will be updated in 2018 to take account of the changes. Carried out weekly by EHS Coordinator and recorded on EF 18 & EF 01
2	Waste Unloading/Handling	9	Carry out an effectiveness audit of waste handling procedures. Carry out regular checks of spill kits.	Effectiveness audit of waste handling procedures was conducted in October 2017. The Waste Storage Plan submitted to the EPA was approved in March 2017. The facility is awaiting approval from the agency for an update on the waste storage plan which was updated and uploaded to EDEN in January 2018. Both storage plans were finalised by management and waste handling documented procedures will be updated in 2018 if any changes arise. Carried out weekly by EHS Coordinator and recorded on EF 18 & EF 01
15	Interceptor Sump	8	Commission a further interceptor sump inspection if the last inspection is older than 3 years.	Interceptor Sump will be surveyed and integrity tested in 2018.
3	WEEE Processing	6	Continue to sample and monitor the emissions from the CRT/FPD disassembly lines extraction vent. Carry out an internal fugitive dust/OHS emission survey.	TMS Environmental were contracted in 2017 to carry out quarterly air emissions monitoring surveys and subsequent analysis for Particulate Matter and Metals, as required by the licence. An external Dust Deposition survey was carried out along with internal OHS Dust Monitoring in 2017.
12	Contaminated Land	6	Carry out soil testing as per licence requirements	Soil Testing was carried out in April 2014 - not required again until 2024
11	Emissions to Groundwater	4	Continue to sample groundwater as per licence requirements.	Groundwater was sampled twice in 2017: once for relevant hazardous substances and twice for basic parameters. The Recycling Village Ltd will be updating the EPA, through the EDEN Portal, in 2018 of further work to be carried out on groundwater.
14	Storm drainage network	4	Commission an integrity survey of the site drainage network every 3 years.	Integrity survey of the site drainage will be carried out in 2018.
6	Emissions to Surface Water	4	Continue to sample surface water as per licence requirements.	Surface water was sampled as per licence requirements in 2017. Additional sampling and testing was carried out to establish trigger levels for surface water. A proposal for trigger values for storm water discharges was uploaded to EDEN in November 2017. The facility is awaiting approval on this report.
9	Fire and Firewater	4	Implement the recommendations as detailed in the Fire Water and Fire Water Retention Report, produced by WEML, July 2015	Installation of a smoke detection system took place in early 2016. The Emergency Response Plan was updated to state that the interceptor would be manually turned off in the event of a fire and to include the insertion of a drain plug in SW4 in the case of a fire or a large spill, the use of AQUA-SACS and booms in the event of a fire to protect the drains from been contaminated with firewater. The H+S Consultant has trained the ERT in this equipment to protect the drains, interceptor and SW4.
16	Site Deliveries	4	Ensure that all loads are checked before unloading, certified forklift divers operate machinery and all general operators are trained in the site emergency response and spillage procedures as required.	The emergency response team (ERT) had emergency planning training in March 2017. Five new members of staff had Health and Safety Training in December 2017. Refresher forklift training will be carried out in November 2018. Health and Safety training for all staff will be conducted in 2018.
5	Ecology	2	The facility is located within a purpose built industrial facility that was constructed in 2005 on a green field site.	Site emissions monitoring is carried out in accordance with ER 009 which adheres to IE Licence requirements.
13	Liquid Storage and Handling	2	Ensure that all general operators are trained in the site emergency response and spillage procedures as required.	The emergency response team (ERT) had emergency planning training in March 2017. Five new members of staff had Health and Safety Training in December 2017. Refresher forklift training will be carried out in November 2018. Health and Safety training for all staff will be conducted in 2018.
7	Use of Raw Materials and Natural Resources	1	Carry out an energy audit of the facility.	Site Energy Audit was conducted by WEML in November 2015. An energy audit was not carried out in 2017 as the EPA did not require an updated audit.
8	Emissions to Air	1	Continue to sample stack air emission as per licence requirements.	TMS Environmental were contracted in 2017 to carry out quarterly air emissions monitoring surveys and subsequent analysis for Particulate Matter and Metals, as required by the licence.
10	Nuisance	1	Continue to carry out noise surveys as per licence requirements.	Noise Survey was carried out in August 2017 by TMS Environmental Ltd.
17	Weather	1	Ensure that the site interceptor sump is cleaned when required in order to remove gross solids and oil prior to discharge to the River Nanny	Interceptor Sump is subject to daily visual checks; Sump alarm is checked for operation monthly and cleaning is organised as required.