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Annual Environmental Report for Soltec (Ireland) ltd. Reporting year 2013.

For and on behalf of Soltec (Ireland) Ltd

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1 Reporting period

1.1 Report period of W0115-01 is Jan 1st 2013 until 31st of Dec 2013.

2 Waste activities carried out at the facility.

2.1 The licensed activities carried out at Soltec's facility as per Waste Licence no. W0115- 01 is as follows:

Fourth, Schedule of the waste management act 1996.

Class 1: Solvent reclamation or regeneration and

Class 13: Storage prior to recovery

3 Quantity and composition of waste received disposed of and recovered.

- **3.1** The types, quantities and destinations of waste handled by Soltec's hazardous Waste Management facility over the 12-month period 1/01/13 31/12/13 have been calculated using site waste records.
- **3.2** Table 1 summarizes the types, quantities and destinations of waste brought to Soltec's facility over the 12- month period 01/01/13 -31/12/13.

Year	Solvent Composition	Waste Received (Kgs)	Solvent on-site Recycled (Kgs)	Sent for off-site recovery(Kgs)	Waste still on site (Kgs) (Mass balance for 2013 only)
2013 2013	Waste Solvent Solid Hazardous Waste	938,975 248,127	580,731 0	318,364 234,273	39,880 13,854
Total		1,187,102	580,731	552,637	53,734

Table 1: Waste accepted into Soltec in 2013. Table shows quantities accepted, quantities recycled and quantities sent off-site for recovery

3.3 Schedule A, of Waste Licence W0115-01 allows Soltec to accept up to 5,000-tonnes/year of waste at the facility. The above table shows that the Soltec facility received 1,187,102 Kgs of waste over the period January 2013 to December 2013. Therefore Soltec is in compliance with that condition of its license.

4. Quantity and Nature of recovered solvent dispatched from the facility.

4.1 Table 2, 3 and 4 summarises the quantities and nature of recovered solvent and solid waste that was dispatched from the facility over the last 12 months. The figures are based on site records held by Soltec management.

Period	Recovered Solvent Liquid	Use
	(Tonnes)	
Jan 13		Used as thinners
		by
To	581	commercial
		&
Dec 13		private consumers

Table 2: The quantity of waste liquid recycled in Soltec and its use as a product

Period	Solid Waste Recovered as Fuel for Cement Kilns		
	(Tonnes)		
Jan 13			
To	248		
Dec 13			

Table 3: The quantity of Solid waste accepted into Soltec and its subsequent outlet for recovery in the production of cement.

Period	Liquid Waste sent off-site unsuitable for recovery (Tonnes)
Jan 13 To	318
Dec 13	

Table 4: The quantity of liquid waste sent off-site which was unsuitable for on-site recovery.

5. Reports on Emissions

- 6.1 Soltec employed Axis Environmental Services to carry the following analysis. Reports available on-site for inspection.
 - Emissions to the Atmosphere Report No. 3220-13-01 dated 9-7-13
 - Emissions to the Atmosphere Report No. 3220-13-05 dated 14-11-13
 - Environmental Noise Survey- Report No. 3220-13-03 dated 9-7-13
 - Groundwater Monitoring Water Report–Report No.3220-13-02 dated 9-7-13

All monitoring carried out in the 2013 period was in compliance with ELVs set out in W0115-01. However noise monitoring results shown a number of elevations due to external sources from a nearby busy road and industrial park, sound sources from the Soltec site are in compliance.

6. Resource and Energy Consumption Summary

- 6.1 The main energy use at the Soltec facility includes:
 - Electricity
 - Heating Oil
 - Water

6.2 A review of utility bills over the last 12 months shows that Soltec used the following quantities.

Item	Quantity
Electricity	192,137 KwH
Heating Oil	29,305 litres
Water	22,225 litres

Table 5: Energy and Resource Consumption 2013

7. Proposed Development of the facility and a time scale for such development.

7.1 The following Table outlines the proposed plant and site development and approximate time scale. There are no further proposed developments at this stage.

7.2 Proposed Site Development.

Item	Detail	
Decommission of Internal Solvent tanks and bund	2014	

Table 6: Proposed site development for 2014

8. Report on development works undertaken during the reporting period.

8.1 Site developments implemented by Soltec during the reporting period are tabulated below.

Site Developments:

Completed Development 2013

- Installed New chemical storage area
- Upgraded a large warehouse for use
- Commissioned the remaining tanks of the tank farm

Table 7: *Site development in 2013*

9. Estimated annual and cumulative quantity of indirect emissions to groundwater.

- **9.1** The main solvent handling, storage and processing areas at the Soltec facility are covered in concrete or tarmac. Rainwater runs off drains from the building roof and external concrete areas directly to sewer. Groundwater sampling and analysis has shown that there are no detectable traces of solvent in the groundwater. Bund water from central bund is tested and sent off site for treatment.
- **9.2** There are no indirect emissions from the Soltec facility to groundwater. Soltec sends the bund water for disposal off site.
- 10. Report on the progress towards the achievement of the environmental Objectives & Targets contained in the previous year's report.

Objective	Target	Action	Date	Progress
Reduce VOC emissions from Vacuum System				Commissioned
Receive final decision on license review (W0015-02)			June 2014	On-going

Table 8: Environmental Objectives and targets

11. Schedule of Environmental Objectives & Targets for the forthcoming year.

11.1 The environmental objectives for 2013 - 2014 are shown below.

Objectives	Date
Investigate the feasibility of rain water harvesting	2014

 Table 9: Environmental objectives

12 Summary of written procedures developed during the previous 12 months.

12.1 Soltec has developed a series of written procedures, which relate to the operation of the facility. The following table details the procedure titles and a summary of their content:

Title SOP 2.1 Quality System SOP 9A.3 Production of Solvents SOP 9A.4 Toxic & Dangerous Waste Regulations Determination of Distillation Range SOP 9A.6 Determination of Boiling Point SOP 9A.7 Determination of Weight per Milliliters & Density SOP 9A.8 SOP 9A.1 SOP 9A.1 Solvent Recovery Unit SOP 9A.10 Satorius Scales SOP 9A.12 Discharge of Bulk Solvent SOP 9A.13 Proscon Soltec Batch Recovery SOP 9A.14 To Transfer Product SOP 9A.15 Waste Discharge SOP 9A.16 Soltec Emergency Plan SOP 9A.17 Clean Mode SOP 9A.19 Epa Licence Application SOP 9A.20 Quality Inspection SOP 9A.21 Calibration pH Meter SOP 9A.22 Waste Water Discharge SOP 9A.23 Handling Storage & Disposal EWC Codes 150202 UN No 1325 Un No 3175 SOP 9A.24 Production of Solvent for Bulk Tankers SOP 9A.25 SOP 9A.26 Paint Test SOP 9A.27 Rinsing the Lines SOP 9A.28 Operating Instructions Jean Briel Machine SOP 9A.30 Servicing Machines SOP 9A.31 Calibration on Ecocan SOP 9A.32 Safe Guard for Bund B3 Capacity SOP 9A.33 SOP 9A.34 Cleaning and Returning of Combination Barrels		
SOP 9A.4 SOP 9A.4 SOP 9A.5 SOP 9A.6 Determination of Distillation Range SOP 9A.7 Determination of Boiling Point SOP 9A.7 SOP 9A.8 Determination of Moisture Content SOP 9A.9 Solvent Recovery Unit SOP 9A.10 Satorius Scales SOP 9A.12 Discharge of Bulk Solvent SOP 9A.13 SOP 9A.14 To Transfer Product SOP 9A.15 SOP 9A.16 SOltec Emergency Plan SOP 9A.17 Clean Mode SOP 9A.19 Epa Licence Application SOP 9A.20 Quality Inspection SOP 9A.21 Calibration pH Meter SOP 9A.22 Waste Water Discharge SOP 9A.23 Handling Storage & Disposal EWC Codes 150202 UN No 1325 Un No 3175 SOP 9A.26 Paint Test SOP 9A.27 Rinsing the Lines SOP 9A.29 SOP 9A.30 Servicing Machines SOP 9A.31 SOP 9A.31 Calibration on Ecocan SOP 9A.31 SOP 9A.32 SOP 9A.33 Safe Guard for Bund B3 Capacity SOP 9A.33 Sop 9A.33 Safe Guard for Bund B3 Capacity SOP 9A.33 Sop 9A.33 Sop Sanda Servicing Machines SOP 9A.33 Sop 9A.33 Sop Sanda Sopposal EWC onto Bund 3	Title	Summary of the Procedure
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SOP 9A.29 Lone Working Policy SOP 9A.30 Servicing Machines SOP 9A.31 Calibration on Ecocan SOP 9A.32 Safe Guard for Bund B3 Capacity SOP 9A.33 Loading and Unloading IBC onto Bund 3	SOP 9A.27	Rinsing the Lines
SOP 9A.30 Servicing Machines SOP 9A.31 Calibration on Ecocan SOP 9A.32 Safe Guard for Bund B3 Capacity SOP 9A.33 Loading and Unloading IBC onto Bund 3	SOP 9A.28	Operating Instructions Jean Briel Machine
SOP 9A.31 Calibration on Ecocan SOP 9A.32 Safe Guard for Bund B3 Capacity SOP 9A.33 Loading and Unloading IBC onto Bund 3	SOP 9A.29	Lone Working Policy
SOP 9A.32 Safe Guard for Bund B3 Capacity SOP 9A.33 Loading and Unloading IBC onto Bund 3	SOP 9A.30	Servicing Machines
SOP 9A.33 Loading and Unloading IBC onto Bund 3	SOP 9A.31	Calibration on Ecocan
e e e e e e e e e e e e e e e e e e e	SOP 9A.32	Safe Guard for Bund B3 Capacity
SOP 9A.34 Cleaning and Returning of Combination Barrels	SOP 9A.33	Loading and Unloading IBC onto Bund 3
	SOP 9A.34	Cleaning and Returning of Combination Barrels

 Table 10: List of written procedures

^{12.2} The above procedures are available for inspection at the Soltec facility if required.

13. Tank, pipeline and bund testing and inspection report.

13.1 A bund integrity assessment was carried out at the site and a copy of the report is available on-site for inspection.

14 Reported Incidents and complaints summary.

14.1 There were no reported incidents or complaints in relation to Soltec's facility during the reported period covered in this AER.

15 Report on financial provision made under this licence, management, and staffing structure of the facility.

Soltec has recently invested heavily to upgrade the existing site and install additional solvent recycling plant. There are no immediate plans to stop trading.

However should Soltec cease its current operations all machinery plant and stock would either be relocated to an alternative site or sold. All solvent/chemical storage tanks would be emptied site wastes would be appropriately disposed of and the site secured against vandalism.

Soltec will render safe or remove from the site all reasonable materials waste plant or equipment contained on or in the site that may result in environmental pollution.

Soltec will consider any reasonable request by the EPA to deposit a security bond in the case of insolvency. This bond will be used to cover the cost of any site decommissioning if required.

The environmental risks associated with Soltec activities include soil groundwater and surface water contamination. These risks only occur during site operations Soltec do not store waste for long periods or dispose of any waste materials on site. If operations were to cease the potential environmental risks would be significantly reduced, there would not be any expected long-term environment effects after the site has closed.

As a result of the above Soltec, do not foresee the need for a long term site monitoring or an aftercare management plan once the operation has ceased.

15.1

An Environmental Liabilities Risk Assessment was carried out and submitted to the agency.

16 Report on staff training

Soltec has implemented an environmental training schedule for relevant staff, including attendance and completion of the F.A.S. Waste Management Course. Attendances at further relevant training courses are detailed below.

Name

All Staff

Fire Safety Training

Manual Handling

Emergency Response training jointly
with Westmeath Fire Service

David Corcoran

DGSA Course

Table 11: Staff Training

17. Boiler Efficiency Test Results

17.1 The Soltec facility has two boiler used for the heating of distillation columns. The boilers were tested for efficiency in 2012. Reports are available for viewing in Soltec.