



Soltec (Ireland) Ltd EPA License W0115-01

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Dec 2012

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### 1 Reporting period

**1.1** Report period of W0115-01 is Jan 1<sup>st</sup> 2012 until 31<sup>st</sup> of Dec 2012.

### 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 are as follows:

Fourth, Schedule of the waste management act 1996.

Class 1: Solvent reclamation or regeneration and

Class 13: Storage prior to recovery

Soltec are also allowed to accept solid hazardous waste under an Agency Approved pilot program.

### 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 1/01/12 - 31/12/12 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 01/01/12 -31/12/12.

Year	Solvent Composition	Solvent Received (Kgs)	Solvent Recycled (Kgs)	Solvent Sent for off-site recovery(Kgs)	Solvent still on site
2012	Waste Solvent	993,223	625,287	270,900	97,035
2012	Solid Hazardous Waste	247,765	0	224,979.30	22785.7
Total		1240988	625,287	495,879	119820.7

**Table 1**: Waste accepted into Soltec in 2012. 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 organic solvents at the facility. The above table shows that the Soltec facility received 993,223 Kgs of waste solvent over the period January 2012 to December 2012. Therefore Soltec is in compliance with that condition of its license.

The total of solid waste received in was 247,765 Kgs.

# 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 (Tonnes)	Use
Jan 12		Used as thinners
		by
То	625	commercial
		&
Dec 12		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 12	
То	
Dec 12	224.9

**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
Jan 12	
То	270.9
Dec 12	

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

#### 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. 3220-12-05 dated 26<sup>th</sup> September 2012
  - Emissions to the Atmosphere Report No. 3220-12-04 dated 6<sup>th</sup> June 2012
  - Environmental Noise Survey- Report No. 3220-12-01 dated 18<sup>th</sup> April 2012
  - Groundwater Monitoring Water Report–Report No.3220-12-03 dated 17<sup>th</sup> May 2012

All monitoring carried out in the 2012 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.

Energy	Quantity	Cost
Electricity	72,588KwH	€24,793
Heating Oil	29,158litres	€23,158
Water	259,000Litres	€567

**Table 5**: Energy and Resource Consumption 2012

## 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
Development of New IBC store	2013
New VOC vent system for process	2013
vessels and storage tanks	2010
Upgrade of internal production facility to include the decommission of	2013
solvent storage tanks.	2013

**Table 6:** *Proposed site development for 2012* 

# 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 2012**

- Installation of larger chiller unit, chilling current & future process requirements
- Installation of new distillation unit
- Upgrade of current liquid waste storage from IBC to stainless steel tanks
- Installation of new bund to provide bunding to new storage tanks
- Upgrade of ground water monitoring wells, to include construction of concrete over ground protection pylon
- Upgrade bund no.3. This involved the construction of sliding doors and a roof. This is within lines with previous EPA inspection findings.
- Submitted License Review

**Table 7:** *Site development in 2012* 

### 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
Submit EPA				Completed
license review				
<b>Upgrade</b> solvent				
vent system to				
reduce VOC			Sep	Planning
emission			2013	stage

**Table 8:** Environmental Objectives and targets

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

11.1 The environmental objectives for 2012 - 2013 are shown below.

Objectives	Date
Reduce VOC emission	2013

 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	Summary of the Procedure
SOP 2.1	Quality System
<b>SOP 9A.3</b>	Production of Solvents
SOP 9A.4	Toxic & Dangerous Waste Regulations
SOP 9A.5	Determination of Distillation Range
<b>SOP 9A.6</b>	Determination of Boiling Point
<b>SOP 9A.7</b>	Determination of weight per Milliliters & Density
<b>SOP 9A.8</b>	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	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	Karl Fisher Titration
SOP 9A.26	Paint Test
SOP 9A.27	Rinsing the Lines
SOP 9A.28	Operating Instructions Jean Briel Machine
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.34	Cleaning and Returning of Combination Barrels

**Table 10:** *List of written procedures* 

**<sup>12.2</sup>** The above procedures are available for inspection at the Soltec facility if required.

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.

# 45.0

# 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	Training				
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.

#### Appendix PRTR



 $|\ \mathsf{PRTR\#}: \mathsf{W0115}\ |\ \mathsf{Facility}\ \mathsf{Name}: \mathsf{Soltec}\ (\mathsf{Ireland})\ \mathsf{Limited}\ |\ \mathsf{Filename}: \mathsf{W0115}\_2012\ |\ \mathsf{PRTR}\ \mathsf{Completed}.x\mathsf{ls}\ |$ Return Year : 2012 |

Guidance to completing the PRTR workbook

#### **AER Returns Workbook**

REFERENCE YEAR	2012
FACILITY IDENTIFICATION	
Parent Company Name	Soltec (Ireland) Limited
Facility Name	Soltec (Ireland) Limited
PRTR Identification Number	
Licence Number	
W + IPPO OI - (A +: :	
Waste or IPPC Classes of Activity	class name
	Solvent reclamation or regeneration.
	Storage of waste intended for submission to any activity referred to in a preceding
	paragraph of this Schedule, other than temporary storage, pending collection, on the
4.13	premises where such waste is produced.
Address 1	Zone A
	Mullingar Business Park
Address 3	
	County Westmeath
Address 4	County Westmeath
	Westmeath
Country	
Coordinates of Location	
River Basin District	
NACE Code	
	Recovery of sorted materials
AER Returns Contact Name	,
AER Returns Contact Email Address	
AER Returns Contact Email Address  AER Returns Contact Position	
AER Returns Contact Position AER Returns Contact Telephone Number	
AER Returns Contact Mobile Phone Number	044 9330 133
AER Returns Contact Mobile Phone Number	044 0245240
Production Volume	
Production Volume Units	124078
	<u>ngs</u>
Number of Installations	20
Number of Operating Hours in Year	22
Number of Employees	
User Feedback/Comments	
Web Address	WWW.SOITEC.IE
PRTR CLASS ACTIVITIES	
	Activity Name
	Installations for the recovery or disposal of hazardous waste
	General

Is it applicable? No

activities)?

Have you been granted an exemption? No

Schedule 2 of the regulations) ?

If applicable which activity class applies (as per

Is the reduction scheme compliance route being

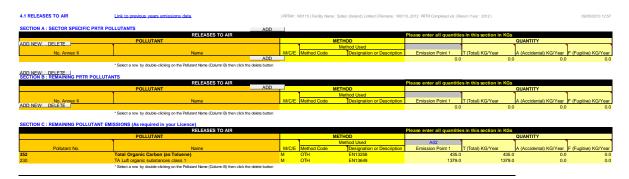
4. WASTE IMPORTED/ACCEPTED ONTO SITE

Do you import/accept waste onto your site for onsite treatment (either recovery or disposal

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

Guidance on waste imported/accepted onto site

# Soltec (Ireland) Ltd Waste Licence No W0115-01 31/12/12



			riease enter	all quantities on this sheet in Tonnes					Haz Waste : Name and			
	European Waste		Quantity (Tonnes per Year)		Waste Treatment		Method Used	Location of	Licence/Permit No of Next Destination Facility Non-Haz Wastle: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination Le. Final Recove Disposal Site (HAZARDOL WASTE ONLY)
ansfer Destination	Code	Hazardous		Description of Waste	Operation	M/C/E	Method Used	Treatment			Ellesmere Port Incinerator	
o Other Countries	ı 07 02 08	Yes	0.19	other still bottoms and reaction residues	D10	М	Weighed	Abroad	Veolia Ellesmere Port Incinerator, BS5193IE	Cleanaway Ltd,Bridges Road,Ellesmere Port South Wirral,CH65 4EQ,United Kingdom	Ellesmere Port Incinerator Cleanway Ltd, B55193IE, Bridges Road, Ellesmere Port, South Wirral , Cheshire, United Kingdom Ellesmere Port Incinerator Cleanway	Ellesmere Port,South W ,Cheshire,CH654EQ,Un Kingdom
Other Countries	07 05 03	Yes	7.62	organic halogenated solvents, washing liquids and mother liquors	D10	м	Weighed	Abroad	Veolia Ellesmere Port Incinerator,BS5193IE	Cleanaway Ltd,Bridges Road,Ellesmere Port South Wirral,CH65 4EQ,United Kingdom	Ltd, B55193IE, Bridges Road, Ellesmere Port, South Wirral , Cheshire, United Kingdom Afvalstoffen Terminal	,Cheshire,CH654EQ,Ur Kingdom
o Other Countries	07 05 04	Yes	18.6	other organic solvents, washing liquids and mother liquors	R1	М	Weighed	Abroad	AFVALSTOFFEN ,1538449	Terminal Moerdijk BV, Industrrieterrin Seaport M152, Vlasweg 12, NL 4752, Netherlands	Moerdijk BV,1538449,Industrrieterrein Seaport M152Vlasweg 12.NL 4752 PW Moerdijk,Netherlands Afvalstoffen Terminal Moerdijk	Alvalstoffen Terminal Moerdijk BV,Industrriete Seaport M152,Vlasweg 12,NL 4752 PW Moerdijk,Netherlands Alvalstoffen Terminal
Other Countries	08 01 13	Yes		studges from paint or varnish containing organic solvents or other dangerous substances	R1	М	Weighed	Abroad	AFVALSTOFFEN ,1538449		12,NL 4752 PW Moerdijk,Netherlands Ellesmere Port Incinerator Cleanway	Moerdijk BV,Industrriet Seaport M152,Vlasweg 12,NL 4752 PW Moerdijk,Netherlands
Other Countries	08 03 08	No		aqueous liquid waste containing ink	D10	м	Weighed	Abroad	Veolia Ellesmere Port Incinerator,BS5193IE	Cleanaway Ltd, Bridges Road, Ellesmere Port South Wirral, CH65 4EQ, United Kingdom Cleanaway Ltd, Bridges Road, Ellesmere Port South	Wirral ,Cheshire,United Kingdom Veolia Technical Services,WOO50-	Ellesmere Port, South \ ,Cheshire, CH654EQ, Ur Kingdom
Other Countries	09 01 01	Yes		water-based developer and activator solutions	D10	М	Weighed	Abroad	Veolia Ellesmere Port Incinerator,BS5193/E	Wirral,CH65 4EQ,United Kingdom Cleanaway Ltd,Bridges Road,Ellesmere Port South	02,Corrin,Fermoy,.,Co Cork ,Ireland Veolia Technical Senices.WOO50-	Corrin,.,Fermoy,Co Co ,Ireland
Other Countries	13 02 08	Yes	1.2	other engine, gear and lubricating oils	D10	М	Weighed	Abroad	Veolia Ellesmere Port Incinerator,BS5193IE	Wirral,CH65 4EQ,United Kingdom	02,Corrin,Fermoy,.,Co Cork ,Ireland Veolia Technical Services.WOO50-	Corrin,.,Fermoy,Co Cor ,Ireland
fithin the Country	20 01 27	Yes		paint, inks, adhesives and resins containing dangerous substances	R1	М	Weighed	Offsite in Ireland	Veolia Environmental Services ,WOO50-02	Corrin,,Fermoy,Co Cork,Ireland	02,Corrin,Fermoy,.,Co Cork ,Ireland Af\(\text{Alstoffen Terminal}\) Moerdiik	Corrin,,Fermoy,Co Cor ,Ireland Afvalstoffen Terminal
DÖ'NEŴ DELE	<u>ті: Т</u> В 03	Yes	0.8	other solvents and solvent mixtures	D10	М	Weighed	Abroad	Veolia Ellesmere Port Incinerator, BSS193IE	Cleanaway Ltd, Bridges Road, Ellesmere Port South Wirral, CH65 4EQ, United Kingdom	BV,1538449,Industrrieterrein	
Other Countries	14 06 03	Yes	0.53	other solvents and solvent mixtures	R1	м	Weighed	Abroad	AFVALSTOFFEN ,1538449	Terminal Moerdijk BV,Industrrieterrin Seaport M152,Vlasweg 12,NL 4752,Netherlands	Ltd, 855 93IE, Bridges Road, Ellesmere Port, South Wirral , Cheshire, United Kingdom Alvalstoffen Terminal Moerdijk	,Cheshire,CH654EQ,U Kingdom Afvalstoffen Terminal
HELP	16 05 08	Yes		discarded organic chemicals consisting of or containing dangerous substances	R1	м	Weighed	Abroad	AFVALSTOFFEN ,1538449	Terminal Moerdijk BV,Industrrieterrin Seaport M152,Vlasweg 12,NL 4752,Netherlands Shannon Industrial	BV,1538449,Industrrieterrein Seaport M152,Vlasweg 12,NL 4752 PW Moerdijk,Netherlands ENVA .Erwa	Moerdijk BV,Industrriel Seaport M152,Vlasweg 12,NL 4752 PW Moerdijk,Netherlands
ithin the Country	07 05 01	Yes		aqueous washing liquids and mother liquors	D9	М	Weighed	Offsite in Ireland	Enva Shannon I,W0041-01	Est,Shannon ,Co Clare,.,Ireland	Shannon,W0041- 01,,Ireland Veolia Technical	.,.,Shannon,Co Clare,Ir
ithin the Country	07 05 01	Yes	33.02	aqueous washing liquids and mother liquors	D10	м	Weighed	Offsite in Ireland	Veolia Environmental Services ,WOO50-02	Corrin ,,Fermoy,Co Cork,Ireland	Senices,WOO50- 02,Corrin,Fermoy,.,Co Cork ,Ireland Ellesmere Port Incinerator Clearway	Corrin,.,Fermoy,Co Cor ,Ireland
Other Countries	07 05 01	Yes	53.45	aqueous washing liquids and mother liquors	D10	М	Weighed	Abroad	Veolia Ellesmere Port Incinerator, BSS193IE	Cleanaway Ltd, Bridges Road, Ellesmere Port South Wirral, CH65 4EQ, United Kingdom	Cleanway Ltd, 855193IE, Bridges Road, Ellesmere Port, South Wirral , Cheshire, United Kingdom Alvalstoffen Terminal Moerdijk	Ellesmere Port, South 1 , Cheshire, CH654EQ, U Kingdom Afvalstoffen Terminal
Other Countries	15 02 02	Yes		absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	R1	м	Weighed	Abroad	AFVALSTOFFEN ,1538449	Terminal Moerdijk BV,Industrrieterrin Seaport M152,Vlasweg 12,NL 4752,Netherlands	12,NL 4752 PW Moerdijk,Netherlands	Moerdijk BV,Industrrie Seaport M152,Vlaswe 12,NL 4752 PW Moerdijk,Netherlands
				absorbents, filter materials (including oil filters not otherwise specified), wiping						Cleanaway Ltd,Bridges Road,Ellesmere Port South		Ellesmere Port,South
Other Countries	02 02	Yes		cloths, protective clothing contaminated by dangerous substances	D10	М	Weighed	Abroad	Veolia Ellesmere Port Incinerator.BS5193IE	Wirral, CH65 4EQ, United Kingdom	Wirral ,Cheshire,United Kingdom	,Cheshire,CH654EQ,U Kingdom
							-0			J	J	