



Soltec (Ireland) Ltd
EPA License W0115-01
Report Type: AER
Reporting Period: 1st Jan 2011- 31st
Dec 2011

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1 Introduction

11.1 Annual Environmental Report

11.4.1 The Licence shall submit to the agency for its agreement within thirteen months from date of grant of the licence, and within one month of the end of each year. Thereafter an Annual Environmental Report (A.E.R)

11.4.2 The (A.E.R) shall include as a minimum the information specified in schedule G content of the Annual Environmental Report and shall be prepared in accordance with any relevant written guidance issued by the agency. Schedule G content of the annual environmental report.

1 Reporting period

1.1 Soltec was issued with waste Licence W0115- 01 on 21st June 2002.

1.2 This A.E.R is the ninth to be submitted by Soltec Ireland Ltd and covers the twelve-month period from 1st Jan 2011 to 31st December 2011.

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.

This activity is limited to the distillation of waste solvent.

Conditions:

5.3.1 Storage of waste

5.3.3 No waste shall be stored at the facility for longer than six months.

5.8 Off - site disposal and recovery.

5.8.1 Waste sent off- site for recovery or a waste contractor agreed by the E. P.A. shall only convey disposal.

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 1/01/11 - 31/12/11 have been calculated using invoices and 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 01/01/11 -31/12/11.

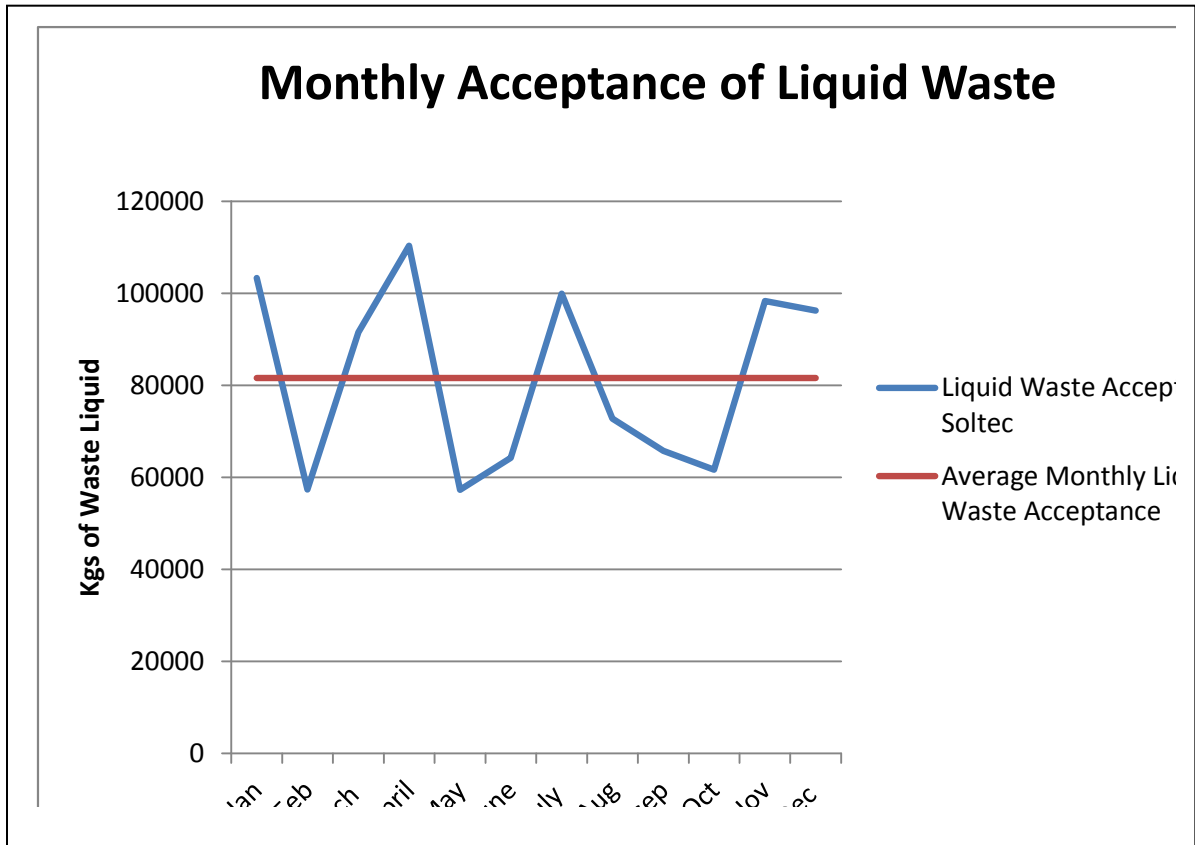
Month	Solvent Composition	Solvent Received (Kgs)	Solvent Recycled (Kgs)	Solvent Sent for off-site recovery(Kgs)	
Jan 11	Ethyl Acetate	20500	19382	1118	
	Isopropanol	22300	21268	1032	
	Solvent Liquid Waste	3000	0	3000	
	Methanol	8000	8000	0	
	Mixed Solvent Waste	22500	21500	1000	
	Solvent Liquid Sludge	13200	9000	4200	
	Solvent Liquid Waste	1800	0	1800	
	Waste Acetone	2000	2000	0	
	Waste Ethanol	8000	7000	1000	
	Waste Varnish	1000	0	1000	
	Water Based Developer	1000	0	1000	
	Sub Total		103300	88150	15150
	Feb 11	Isopropanol	21500	19436	2064
Solvent Liquid Sludge		14960	6560	8400	
Solvent Liquid Waste		2400	1000	1400	
Waste Acetone		4000	3600	400	
Waste IPA/Ethanol		4600	3400	1200	
Waste Methanol		8900	8900	0	
Waste Varnish		1000	0	1000	
Sub Total			57360	42896	14464
Mar 11	Isopropanol	21500	19708	1792	
	Methanol	23600	23600	0	
	Solvent Mixed Waste	23600	21530	2070	
	Solvent Waste Ink	2400	0	2400	
	Solvent Waste Sludge	9400	5200	4200	
	Solvent Liquid Waste	1600	200	1400	
	Waste Acetone	6400	5800	600	
	Waste Ethanol	2400	1600	800	
	Water Based Ink	600	0	600	
Sub -Total		91500	77638	13862	

Month	Solvent Composition	Solvent Received (Kgs)	Solvent Recycled (Kgs)	Solvent Sent for off-site recovery(Kgs)	
April 11	Ethyl Acetate	19080	18000	1080	
	IPA	17292	16506	786	
	Solvent Liquid Sludge	10000	6400	3600	
	Solvent Mixed Waste	50120	47141	2979	
	Waste Acetone	5600	5000	600	
	Waste Methanol	5000	5000	0	
	Waste Oil	1000	0	1000	
	Waste Sodium Dichromate	40	0	40	
	Waste Solvent Oil	200	0	200	
	Water Based Developer	1000	0	1000	
	Water Based Varnish	1000	0	1000	
	Sub Total		110332	98047	12285
	May 11	Aqueous Water	200	0	200
Ethyl Acetate		2000	2000	0	
Mixed Solvent Waste		25240	24263	977	
Solvent Liquid Waste		12540	5400	7140	
Waste Acetone		5400	4800	600	
Waste Ethanol		1950	1150	800	
Waste Isopropanol		6150	6150	0	
Waste Methanol		3850	3850	0	
Sub -Total			57330	47613	9717
June 11	Waste Acetone	2000	1600	400	
	Liquid Waste	150	0	150	
	IPA	21500	20378	1122	
	Mixed Solvent Waste	24300	23301	999	
	Solvent Liquid Waste	9300	3000	6300	
	Waste Ethanol	3000	1800	1200	
	Waste Methanol	4000	4000	0	
	Sub - Total		64250	54079	10171
July 11	Mixed Solvent Waste	48320	45033	3287	
	Solvent Based Ink	4000	0	4000	
	Solvent Liquid Sludge	11400	3800	7600	
	Solvent Waste Developer	1000	0	1000	
	Waste Acetone	4200	3600	600	
	Waste Coolant	2000	0	2000	

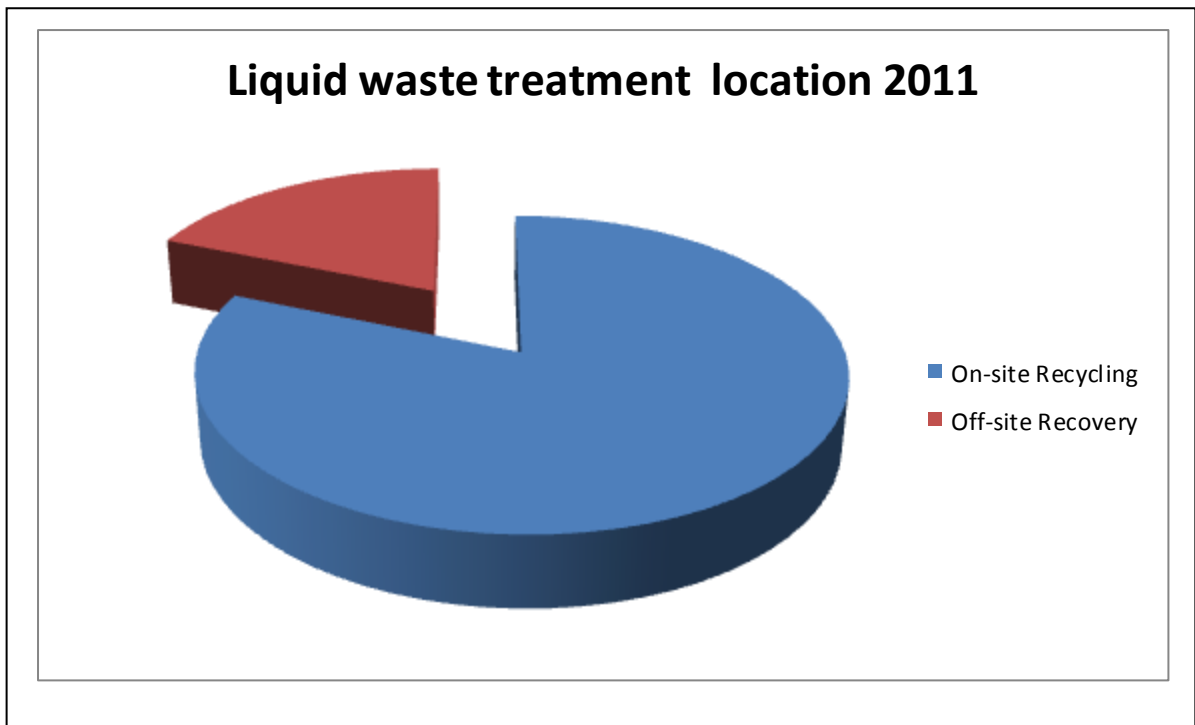
Month	Solvent Composition	Solvent Received (Kgs)	Solvent Recycled (Kgs)	Solvent Sent for off-site recovery(Kgs)
	Waste Ethanol	1800	800	1000
	Waste Methanol	25198	24250	948
	Waste Water & Oil	1000	0	1000
	Water Based Ink	1000	0	1000
	Sub – Total	99918	77483	22435
Aug 11	Ethyl Acetate	20000	19048	952
	IPA	19592	18644	948
	Solvent Liquid Waste	7200	5000	2200
	Waste Acetone	2400	2200	200
	Waste Ethanol	1200	400	800
	Waste Methanol	5800	5800	0
	Waste Toluene & IPA	11180	11180	0
	Water Based Ink	4000	0	4000
	Solvent Mixed Waste	1440	40	1400
	Sub – Total	72812	62312	10500
Sept 11	Waste Oil	200	0	200
	Mixed Solvent Waste	18040	17056	984
	Solvent Waste Developer	300		
	Solvent Liquid Waste	12000	4000	8000
	Waste Acetone	6400	5600	800
	Waste Ethanol	3000	2400	600
	Waste IPA	20838	19868	970
	Waste Methanol	5000	5000	0
	Sub – Total	65778	53924	11554
				300 still on site
Oct 11	Mixed Solvent Waste	18830	16802	2028
	Recovered HFE	4000	4000	0
	Solvent Liquid Sludge	12000	8800	3200
	Waste Acetone	3800	3200	600
	Waste Ethanol	4200	3800	400
	Waste Methanol	1200	1200	0
	Sub Total	44030	37802	6228
Month	Solvent Composition	Solvent Received	Solvent Recycled	Solvent Sent for off-site

	(Kgs)	(Kgs)	recovery(Kgs)
IPA	23000	21905	1095
Waste Ethanol	1655	1355	300
Solvent Based Ink	40	40	0
Solvent Liquid Waste	11400	9800	1600
Solvent Mixed Waste	36440	36440	0
Waste Acetone	8800	8000	800
Waste Methanol	6000	6000	0
Waste Water	10000	0	10000
Water Based Oil	1000	0	1000
Sub Total	98335	83540	14795
Dec 11			
IPA	34046	0	0
Solvent Liquid Waste	4000	0	0
Solvent Liquid Sludge	10045	0	0
Solvent Mixed Waste	26240	0	0
Waste Acetone	2400	0	0
Waste Ethanol	1200	0	0
Waste Methanol	3350	0	0
Water Based Oil/Coolant	1000	0	0
Waste Water	14000	0	14000
Sub -Total	96281	0	14000 82281 still on site
Total in Kgs	961,226	723,484	155,161 82,581 Still on site
	Total Waste Accepted	Total Waste Recycled on- site	Total Waste sent off-site for Recovery
Total in Tonnes	961.226	723.484	155.161 82.581 still on site

Table 1: Liquid waste accepted into Soltec in 2011. Table shows quantities accepted, quantities recycled and quantities sent off-site for recovery



Graph 1: Monthly Analysis of liquid waste accepted into Soltec in 2011



Graph 2: Analysis of treatment location 2011

Solid Waste Received /Disposed/Recycled from Soltec's Facility

Month	Composition	Received Kgs	Recycled Kgs	Solid waste sent for off-site recovery(Kgs)
Jan 11	Solid Waste	8465	0	8465
Sub Total		8465	0	8465
Feb 11	Solid Waste	15115	0	15115
Sub Total		15115	0	15115
Mar 11	Solid Waste	16460	0	16460
Sub Total		16460	0	16460
April 11	Solid Waste	20564	0	20564
Sub Total		20564	0	20564
May 11	Solid Waste	10500	0	10500
Sub Total		10500	0	10500
June 11	Solid Waste	15136	0	15136
Sub Total		15136	0	15136

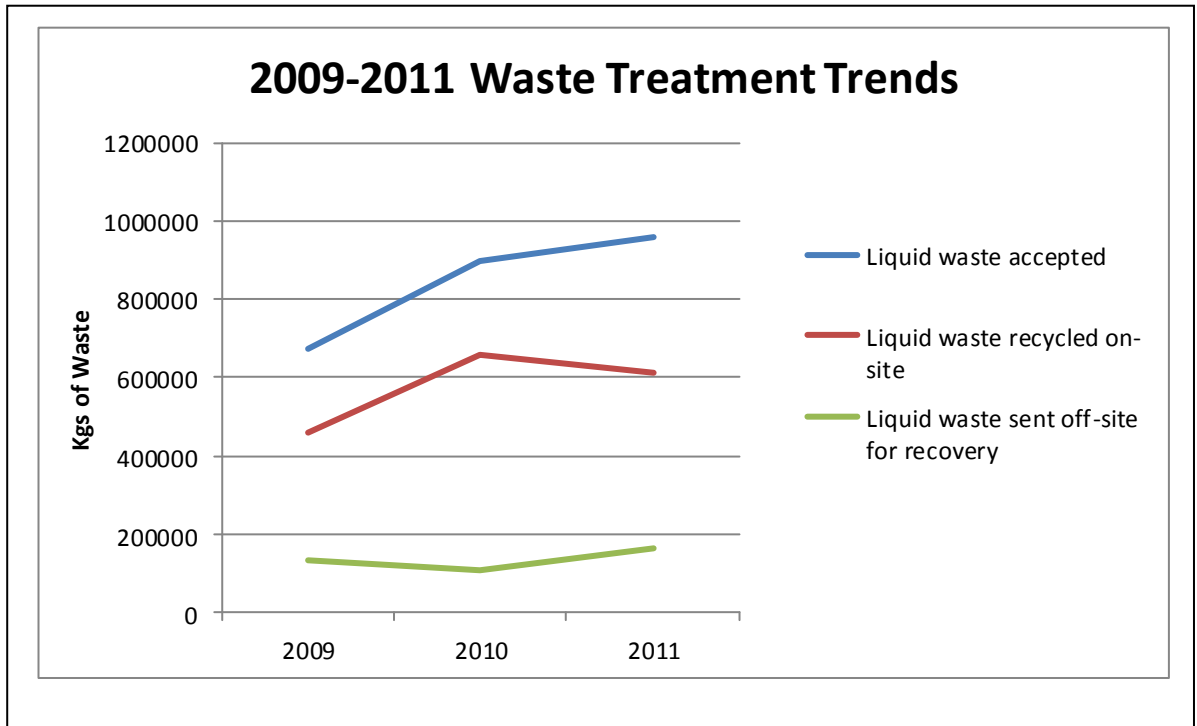
Month	Composition	Received Kgs	Recycled Kgs	Solvent Sent for off-site recovery(Kgs)
July 11	Solid Waste	16041	0	16041
Sub Total		16041	0	16041
Aug 11	Solid Waste	8948	0	8948
Sub Total		8948	0	8948
Sept 11	Solid Waste	19763	0	19763
Sub Total		19763	0	19763
Oct 11	Solid Waste	17926	0	16769
Sub Total		17926	0	16769 1157 Still on site
Nov 11	Solid Waste	14742	0	13675
Sub Total		14742	0	13675 1067 still on site
Dec 11	Solid Waste	11949	0	0
Sub Total		11949	0	0 11949 Still on site
Total		175,609.30	0	161,436.30 Sent off site (14,173 Still on site)
Total In Tonnes	Solid Waste	175.60930	0	161.43630 (Still on Site 14.173)

Table 2: Solid waste accepted into Soltec in 2011. Table shows quantities accepted, quantities recycled and quantities sent off-site for recovery

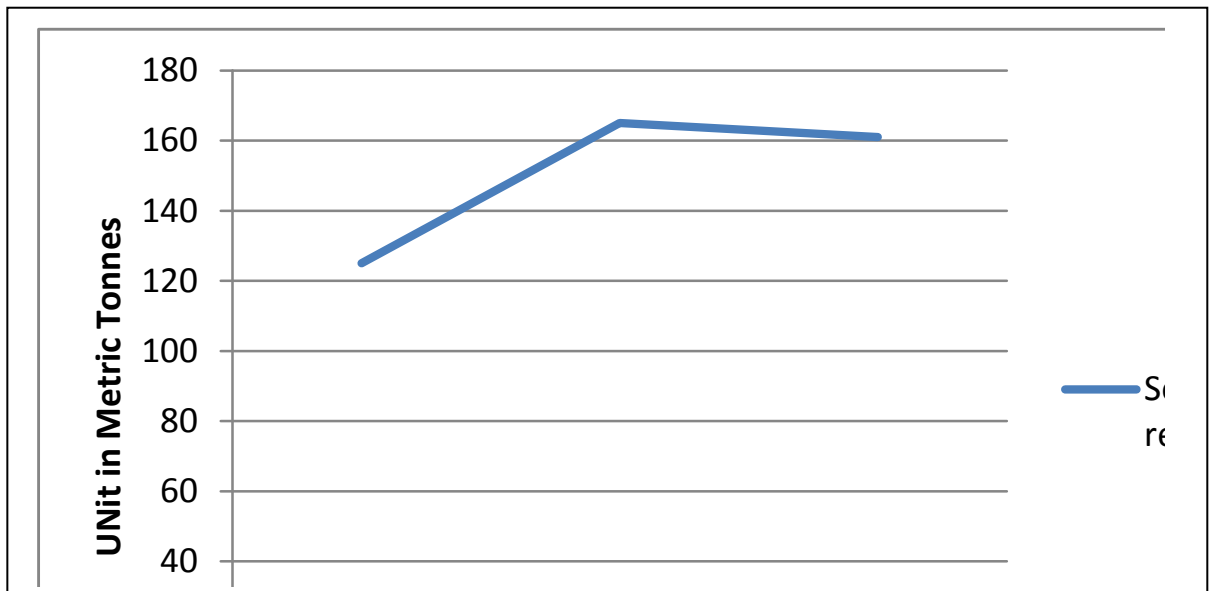


Graph 3: Monthly intake of Solid waste material 2011

2009-2011 Annual Comparisons of Waste Material Accepted and Recovered on and off-site



Graph 4: 2009-2011 comparison of liquid waste acceptance, recycling and recovery.



Graph 5: 2009-2011 comparison of solid waste acceptance and recovered off-site.

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 961,226 Kgs of waste solvent over the period January 2011 to December 2011. Assuming that 1,000 Kgs of solvent is equivalent to 1 tons, the Soltec facility is operating within the conditions of the waste Licence, having received 961.226 Tonnes of organic solvents over the 12-month period.

The total of solid waste received in was 175,309.30 Kgs or 175.60930 Tonnes.

3.4 During the 12-month reporting period, Soltec records show that 723.484 Tonnes of solvent were recovered and 155.161 Tonnes of solvent were disposed of, and 82.581 Tonnes of solvent are still waiting to be processed.

The total of solid waste disposed of off- site is 161.436.30 Tonnes which was recovered off site as a fuel in cement kilns and 14.173 Tonnes of solid waste still on site.

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

4.1 Table 2 and 3 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 11 To Dec 11	723.484	Used as thinners by commercial & private consumers

Table 3: *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 11 To Dec 11	161.4363

Table 4: *The quantity of Solid waste accepted into Soltec and its subsequent outlet for recovery in the production of cement.*

5. Quantity and Nature dispatched for recovery or disposal.

5.1 Table 4 summarises the quantities and nature of wastes that was dispatched from the facility over the last 12 months. The figures are based on site records held by Soltec management.

2011	Solvent Liquid Tonnes	Solid Waste Tonnes	Recyclable Waste Tonnes	Steel Waste Tonnes	General Waste Tonnes	Office Waste
Jan	22.940	13.220	0.1944	0.58766	0.07158	.3667
Feb	39.180	14.220	0.1944	0.58766	0.07158	.3667
Mar	29.589	20.790	0.1944	0.58766	0.07158	.3667
Apr	0	12.870	0.1944	0.58766	0.07158	.3667
May	0.130	12.000	0.1944	0.58766	0.07158	.3667
June	24.940	11.400	0.1944	0.58766	0.07158	.3667
July	0	21.520	0.1944	0.58766	0.07158	.3667
Aug	41.840	15.980	0.1944	0.58766	0.07158	.3667
Sept	0	27.830	0.1944	0.58766	0.07158	.3667
Oct	0	0	0.1944	0.58766	0.07158	.3667
Nov	26.980	34.640	0.1944	0.58766	0.07158	.3667
Dec	26.660	12.260	0.1944	0.58766	0.07158	.3667
Total	212.259	196.730	2.333	7.052	0.859	4.40

Table 5: Quantity and Nature of Waste dispatched for recovery or disposal.

5.2

The quantity of waste solvent (i.e. liquid) sent for disposal between January 2011 to December 2011 was 212.259 Tonnes. The quantity of solid waste sent for disposal between January 2011 and December 2011 was 196.730 Tonnes.

6. 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. 3220-11-02 dated 14th September 2011
- Emissions to the Atmosphere - Report No. 3220-11-03 dated 20th December 2011
- Environmental Noise Survey- Report No. 3220-11-01 dated 7th September 2011
- Groundwater Monitoring Water Report–Report No.3220-11-01 dated 20th September 2011

7. Resource and Energy Consumption Summary

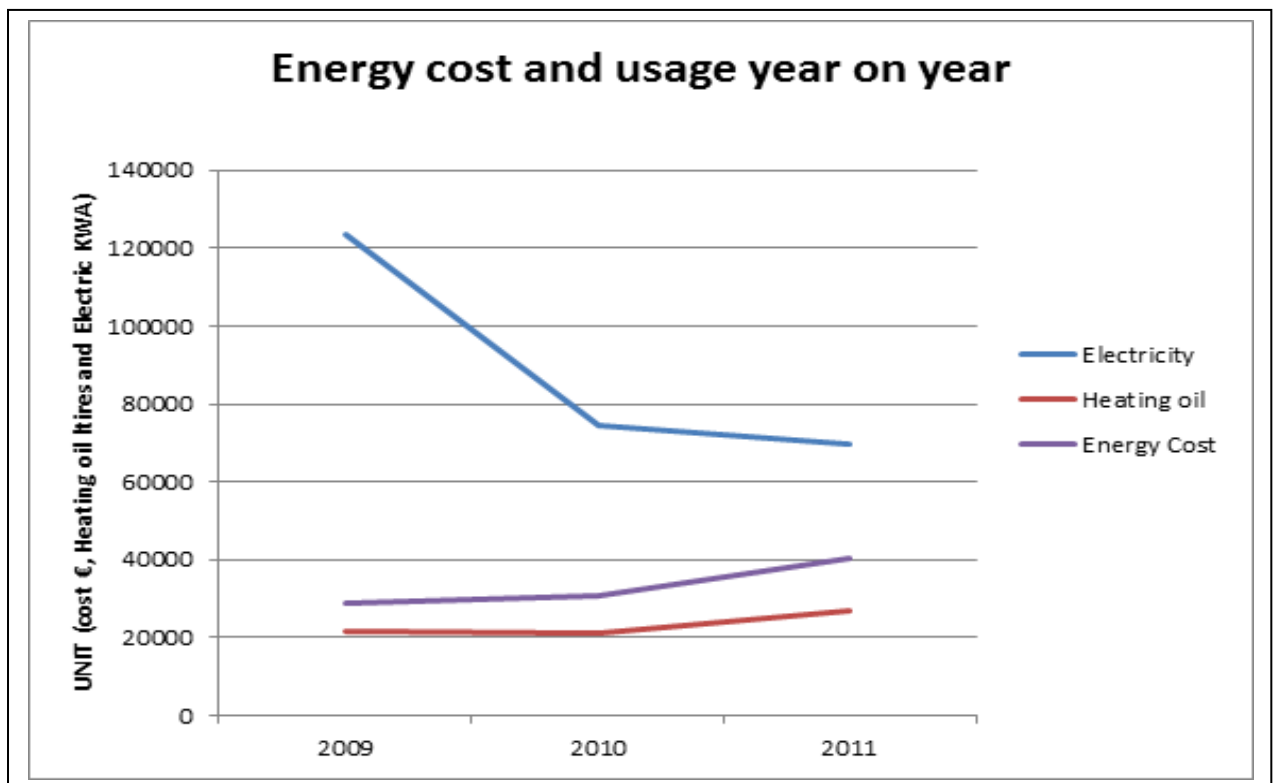
7.1 The main energy use at the Soltec facility includes:

- Electricity
- Heating Oil

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

Energy	Quantity	Cost
Electricity	69,888	€20,205
Heating Oil	26,976	€20,316

Table 6: Energy Consumption 2011



Graph 6: Energy usage trends from 2009 -2011

7.3 The main resources used at the Soltec facility include:

- Water
- Metal drums
- Plastic drums
- Pallets
- Pallet Boxes
- FIBC

7.4 A review of the last 12 months shows that Soltec used the following quantities:

Material	Cost
Water/Rates	€8,608
Plastic Drums & Caps	5 Litre/ 20 Litre 200 Litre /205 Litre
I B C 'S	€58,173
Metal Drums	€8,248
Strapping	€984
Pallets	€1,432
FIBC+ Liners	€4,103
	€9,182

Table 7: Material Consumption in 2011

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

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

8.2 Proposed Site Development.

Proposed development	Time scale
<ul style="list-style-type: none"> • Installation of larger chiller unit, chilling current & future process requirements 	2012
<ul style="list-style-type: none"> • Installation of new larger distillation unit 	2012
<ul style="list-style-type: none"> • Upgrade of current liquid waste storage from IBC to stainless steel tanks 	2012
<ul style="list-style-type: none"> • Installation of new bund to provide bunding to new storage tanks 	2012
<ul style="list-style-type: none"> • Upgrade of ground water monitoring wells, to include construction of concrete over ground protection pylon 	2012
<ul style="list-style-type: none"> • Upgrade bund no.3. This will involve the construction of sliding doors and a roof. This is within lines with previous EPA inspection findings. 	2012

Table 8: Proposed site development for 2012

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

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

Site Developments:

Item	Detail
<p>Soltec have applied for a Review of the Waste Licence WO115-01</p>	<p>This is on going</p>
<p>Monitored Stack A2 and vacuum barrels were upgraded, with a new stainless steel stack and the vacuum holding barrels were upgraded to a stainless steel tank</p>	<p>This project is complete</p>
<p>ESB Power transmission lines were removed from an overhead location to an underground location at the rear of the site</p>	<p>This project is complete</p>

Table 9: *Site development in 2011*

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

10.1 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 significant detectable traces of solvent in the groundwater. Ground water from central bund is tested and sent off site for treatment.

10.2 There are no obvious significant indirect emissions from the Soltec facility to groundwater. Soltec sends the bund water for disposal off site.

11. Report on the progress towards the achievement of the environmental Objectives & Targets contained in the previous year's report.

Objective	Target	Action	Date	Progress
To have the Soltec Ireland Ltd Waste Licence Reviewed by June 2012				This is on going

Table 10: *Environmental Objectives and targets*

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

12.1 The environmental objectives for 2011 - 2012 are shown below.

Objectives	Date
To have the Soltec Ireland Ltd Waste Licence Reviewed	2012

Table 11: *Environmental objectives*

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

13.1 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
SOP 9A.3	Production of Solvents
SOP 9A.4	Toxic & Dangerous Waste Regulations
SOP 9A.5	Determination of Distillation Range
SOP 9A.6	Determination of Boiling Point
SOP 9A.7	Determination of weight per Milliliters & Density
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	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 12: *List of written procedures*

13.2 The above procedures are available for inspection at the Soltec facility if required.

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

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

15 Reported Incidents and complaints summary.

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

17 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.

15.2

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

17.2

Managing Director has overall responsibility for ensuring that the conditions of the Waste Licence are adhered to.

Michael manages the facility, is responsible for contracts, purchasing, and staff management, and is responsible for the environmental management and operational staff training on site.

17.3

Truck Driver is responsible for transport of the Hazardous Chemicals and up keep of the yard.

17.4

Accounts Manager, is responsible for credit control; document and data control; and is in charge of quality records and internal audits.

17.5

Environmental Manager, whose main responsibilities include compliance with EPA licence, improvement and development of environmental management system, and environmental performance. Compliance with relevant environmental regulation and legislation and reporting & correspondence to the EPA.

17.6

Production Manager is responsible for the manufacture of products to specific requirements. The collection and delivery of products. The handling, storage & packing of products. Stock and Process Control and testing. He is also involved in laboratory tests, analysis, and keeping required records of them.

17.8 Sales Representative who is responsible for increasing our customer contacts and sales in Cavan, Clare, Galway, Kilkenny, Laois, Leitrim, Limerick, Longford, Mayo, Meath, Offaly, Tipperary & Westmeath

17.9 Sales Representative who is responsible for increasing our customer contacts and sales. Carlow, Donegal, Dublin, Kildare, Louth, Monaghan, Waterford, Wexford & Wicklow.

17.10 General Operators- whose main responsibilities are filling thinners and upkeep of the yard.

17.11 Accounts assistant -main responsibilities include entering sales or purchase invoices, updating database, filing, typing letters and shredding and any other office work that may be required.

In compliance with condition 3.3 of Soltec's waste licence, a facility notice board has been placed outside the main entrance of the facility as described. Soltec has established a public file for inspection by interested parties.

18 Report on staff training

18.1 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
Juris Krivko & Kevin Sheils	Forklift Training with Olive Safety

Table 13: *Staff Training*

19. Boiler Efficiency Test Results

19.1 The Soltec facility has one small oil fired boiler. It is proposed that an efficiency test be carried out on this boiler during the next round of emissions monitoring which is scheduled to take place.

20.0 Notice board

20.1 In compliance with condition 3.3 of Soltec's waste licence, a facility notice board has been placed outside the main entrance of the facility as described. Soltec has established a public file for inspection by interested parties.