

# 2015 Health Care Risk Waste Treatment Figures

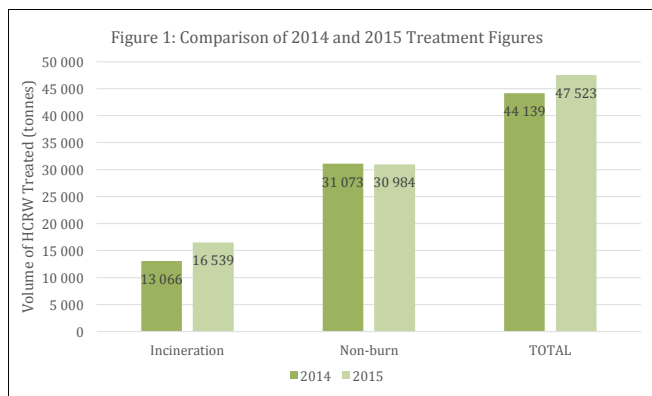
All health care risk waste (HCRW) treatment facilities licensed in terms of the National Environmental Management Waste Act, Act No. 59 of 2008 ("the Act") are required to provide monthly reports to the Director: Licensing indicating the volume of HCRW received and treated on site. The number of treatment facilities operating increased from 12 facilities in 2014 to 14 facilities in 2015 (details provided in Table 1). This was due to introduction of one new non-burn technology and the inclusion of a thermal facility that treats the pharmaceutical waste portion of HCRW. The available annual treatment capacity has increased by approximately 27% or an additional 26 000 tonnes which equates to an additional 2200 tonnes monthly treatment capacity.

**Table 1: Number and Design Treatment Capacity of Licensed HCRW Treatment Facilities Operating**

YEAR		2014	2015
Number of incinerators in operation		6	7
Number of non-burn technologies in operation		6	7
Annual design treatment capacity (if operating at 80% of design capacity) <sup>Note</sup>	Tonnes/ annum	70 080	96 720
	Tonnes/ month	5840	8060

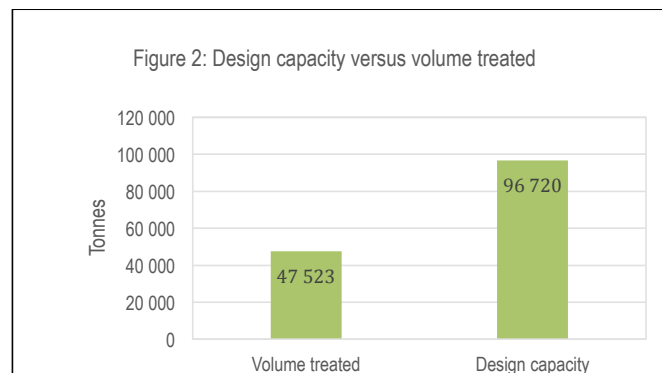
Note: An assumption is made that each treatment technology does not exceed 80% of its design capacity given the heterogeneous nature of HCRW.

As presented in the figure below the actual volume of HCRW treated in 2015 was approximately 47 523 tonnes or 7.5% more than treated in 2014. Approximately 35% was treated by means of incineration and 65% by means of non-burn. It must be noted that during 2015 two facilities ceased operations for a number of months due to repair or refurbishment requirements.



Based on the HCRW generation rate estimated in a study undertaken by the DEA (2008)<sup>1</sup> and applying an annual increase of 1.5% (based on the actual annual population growth rate of 1.06 per cent) approximately 47 500 tonnes of HCRW was anticipated to be generated in 2015. According to the records of the volume of HCRW treated in 2015 of 47 523 tons and the theoretical design treatment capacity of each facility totalling 96 720 tons there was approximately 50% (49 197 tonnes) spare treatment capacity available (Figure 2).

However it must be noted that the theoretical treatment capacity does not consider down time due to either planned and unplanned maintenance or repair of the operations of each treatment facility or the heterogeneous nature of HCRW.



The contact details of the HCRW treatment facilities currently operating are provided in Table 2.

**Table 2: Details of licensed HCRW treatment facilities currently in operation around the country (2016)**

Name	Address	Technology	Contact Details
<b>EASTERN CAPE</b>			
Compass Medical Waste Services	Berlin Eastern Cape	Non-burn	Mr Geoff Heath Regional Manager 043 – 685 2242 082 882 4026 geoff@compass.za.net
<b>GAUTENG</b>			
A-Thermal	Clayville Gauteng	Incineration	Mr Nicolas Eleftheriades Managing Director 011 – 316 1800 083 417 3655 Nicolas@athermal.co.za
Biomed	Benoni Gauteng	Incineration	Mr Motlatso Mabeba Environmental Manager 011 – 845 2521 083 356 1464 mbmabeba@yahoo.com

<sup>1</sup>Department of Environmental Affairs and Tourism, 2008. Survey of Generation Rates, Treatment Capacities and Minimal Costs of Health Care Waste in the 9 Provinces of RSA.

Cecor Allied Technologies	Clayville Gauteng	Non-burn	Mr Sherwin Naicker Managing Director 011 – 316 1800 083 286 7920 sherwin@athermal.co.za
ClinX	Wadeville Gauteng	Incineration	Mr Ernest Botha National Sales Manager 011 – 902 9700 081 040 0030 ernest@clinx.co.za
Compass Medical Waste Services	Clayville Gauteng	Non-burn	Mr Jan van den Burg Gauteng Regional Manager 011 – 818 4610 082 886 5016 jan@compass.za.net
Eastern Cape Incineration Services	Roodepoort Gauteng	Incineration	Mrs Makgabo van Niekerk Public Relations Manager 011 – 748 1657 082 469 2063 makgabovn@enviroserv.co.za
Solid Waste Technologies	City Deep Gauteng	Non-burn	Mr Chris Langenhoven General Manager 011 – 613 2091 082 801 1163 chris@csresources.co.za
<b>KWAZULU NATAL</b>			
Compass Medical Waste Services	Westmead Kwazulu Natal	Non-burn	Mr Graham du Randt KZN Regional Manager 031 – 700 5655 082 802 8643 graham@compass.za.net
Ecocycle Solutions	Mkondeni Kwazulu Natal	Non-burn	Mr Jason Bell Chief Operations Officer 033 – 346 2774 082 454 2774 Jason@ecocyclewaste.co.za

<b>LIMPOPO</b>			
Buhle Limpopo	Polokwane Limpopo	Non-burn	Mr Lucky Mohale Project Manager 015 223 4113 082 556 1513 / 084 030 8984 mohalel@buhlewastelimpopo.co.za
<b>NORTH WEST</b>			
Wasteman	Klerksdorp North West	Incineration	Mr Jaco Kruger Branch Manager 018 – 462 0841 082 771 1676 jkruger@wasteman.co.za
<b>WESTERN CAPE</b>			
BCL	Brentwood Park Western Cape	Incineration	Ms Karin Mathews General Manager 021 – 955 2447 082 772 7709 Karin@bclmedicalwaste.co.za
Optimum Waste	George Western Cape	Incineration	Mr Jan Engelbrecht Occupational Health and Safety Officer 087 350 7017 info@optimumwaste.co.za
Solid Waste Technologies	Killarney Gardens Western Cape	Non-burn	Mr Marco Stemmet Plant Manager 021 - 556 9167 071 895 8700 marco@swtsa.co.za

**For enquires please contact:**

Dr Shauna Costley

Branch: Chemicals and Waste Management

Directorate: Hazardous Waste Management

Tel: 012 399 9775

Cell: 082 443 6558

E-mail: [scostley@environment.gov.za](mailto:scostley@environment.gov.za)

