

**IT'S MY
RESPONSIBILITY**
TO PAY MY MUNICIPAL ACCOUNT
IN FULL. ON TIME.



Presentation Status of Landfill sites in the City



Environment and Agriculture Management

06 February 2020

Presentation Outline



1. Overview of City landfill sites.
2. Active landfill sites status
3. Landfill sites closure plans and alternative landfills
4. Initiatives to secure waste disposal facilities
5. Private Landfill site airspace acquisition
6. Landfill sites closure plans and alternative landfills
7. Alternative waste treatment feasibility study
8. Measures to improve landfill sites compliance

Overview of City landfill sites



Name of landfill site	Location	Active/ inactive	Remaining lifespan
Ga-rankuwa	Ga-Rankuwa	Active	8 - 9 years
Hatherley	Heatherley	active	15 - 20 years
Bronkhorstspuit	Bronkhorstspuit	Active	9– 10 years
Soshanguve	Soshanguve	Active	7 - 8 years
Onderstepoort	Onderstepoort	Inactive	0 years
Kwaggasrand	Kwaggasrand	Inactive	0 years
Temba	Temba	Inactive	0 years
Garskloof	Garskloof	Inactive	0 years

Overview of City landfill sites

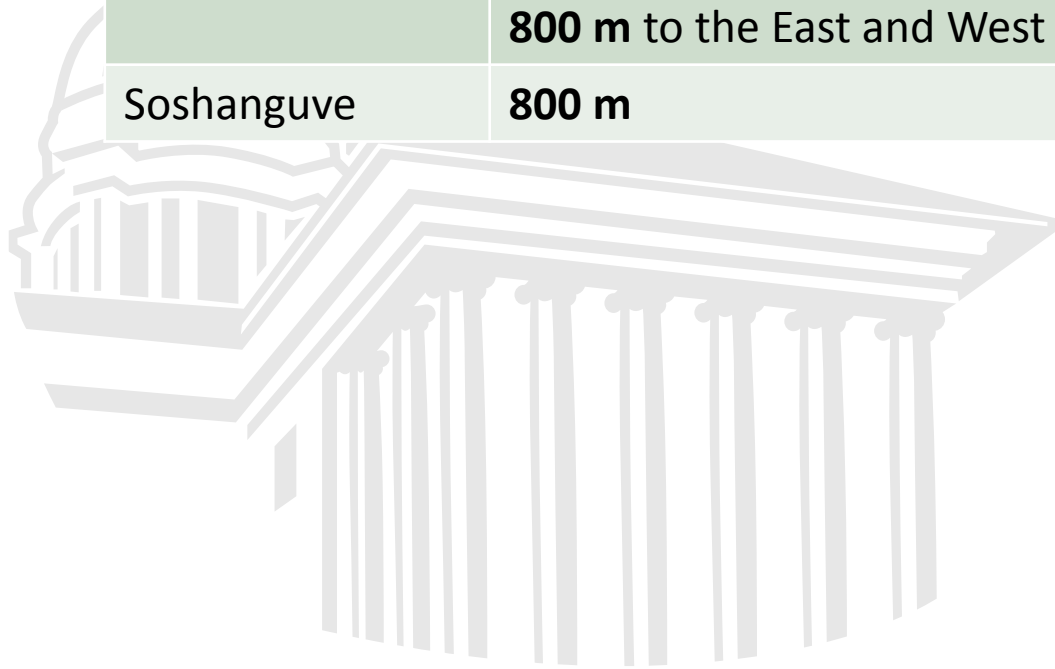


Name of landfill site	Location	Active/ inactive	Remaining lifespan
Valhalla	Valhalla	Inactive	0 years under care and maintenance sinkhole management
Derdepoort	Derdepoort	Inactive	0 years under care and maintenance
Pretoria North (converted to Golf Course)	Pretoria North (converted to Golf Course)	Inactive	0 years under care and maintenance
Eersterust	Eersterust	Inactive	0 years under care and maintenance

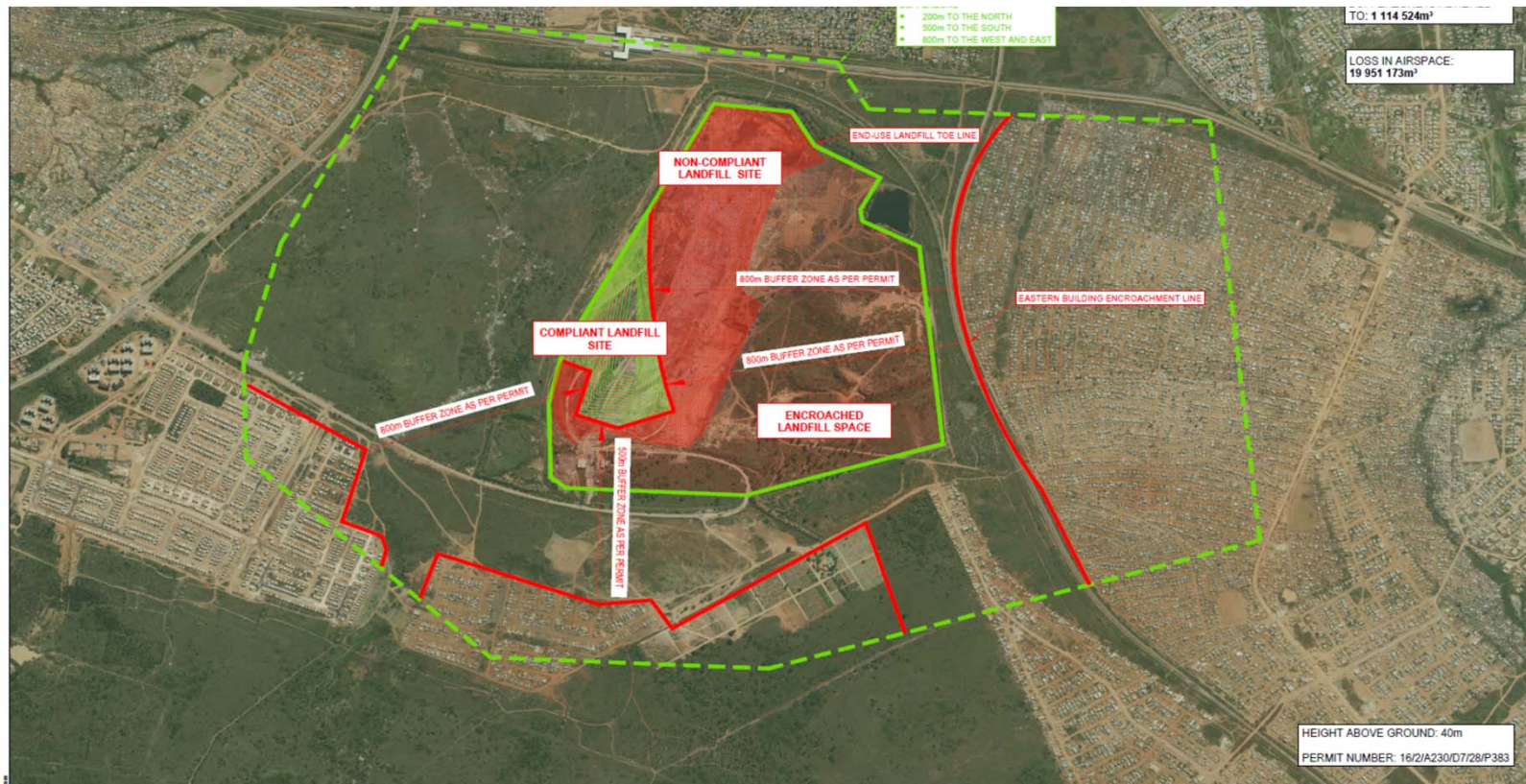
Active landfill sites status



Landfill site	Buffer zone requirements	Buffer Zone Encroachment date
Bronkhorstspuit	Not stated in the permit	Oct 2004 for North and East
Ga-Rankuwa	800 m	July 2008 for North April 2004 for South
Hatherley	200 m to the North 500 m to the South 800 m to the East and West	May 2005 to Sept 2017 for South May 2017 for East
Soshanguve	800 m	March 2004 for all sides



Hatherley Landfill site Encroachment



AKHILE consortium	CLIENT  WASTE MANAGEMENT DIVISION CONTACT: MR ABEL MALAKA 012 358 9099	REV DATE REVISION DETAILS	APPROVED	DRAWN DESIGNED	PROJECT HATHERLEY LAYOUT LANDFILL SITE TITLE PLAN LAYOUT BUFFERZONE ENCROACHMENT	PRELIMINARY NOT FOR CONSTRUCTION
		1 15/08/2016 FOR INFORMATION	T BANKS	J VOORHEE J VOORHEE CHECKED T BANKS APPROVED DATE		502733 SCALE T.B.S. F.F.S. DRAWING NO. REV. HATH-005 A

Landfill sites closure plans and alternative landfills



Landfill site	Progress	Alternative post closure
Temba	Closure application (Final report) submitted to the Gauteng Department of Agriculture and Rural Development (GDARD) for consideration .	Garden waste site Waste Transfer station
Onderstepoort	Closure application (Final report) submitted to the Gauteng Department of Agriculture and Rural Development (GDARD) for consideration .	Garden waste site Transfer station Rubble crushing plant Proposed MREF by New GX
Kwaggasrand	Closure application (Final report) submitted to the Gauteng Department of Agriculture and Rural Development (GDARD) for consideration .	Existing MRF by New GX
Garstkloof	Closure application (Final report) submitted to the Gauteng Department of Agriculture and Rural Development (GDARD) for consideration .	Rubble crushing plant Waste sorting facility

Initiatives to secure waste disposal facilities



Initiative	Time frame
1. Private landfill airspace acquisition	Short term
2. Landfill sites closure plans and alternative landfills	Medium to long term
3. Alternative waste treatment	Medium to long term

Private Landfill site airspace acquisition



- Committee that was appointed by previous CM to negotiate with private landfill sites owners decided that a call for proposal from existing private landfill sites be issues by SCM
- The SCM process took very long but finally submissions have been received and reviewed by the committee to assess and determine a negotiating strategy
- Based on the review, the Committee further recommended that a due diligence be undertaken for the two private landfill sites (Mooiplaats and Rosslyn)
- Based on the due diligence study conducted the City is currently negotiating with private landfill owners for outright purchase or airspace

Landfill sites closure plans and alternative landfills



- The following four sites have been identified and recommended for feasibility studies (report ready for comments):
 - Region 2, Ward 49 - located on the Farm Groenfontein 120JR with an extent of 17 850 126.00m² (11 785.012 ha). The site is characterized by an open space with grassland.
 - Region 7, ward 102 - located on the Farm Onverwacht 509 JR with an extent of 1 813 460.00m² (1 813.46 ha). The site is owned by Republic of South Africa.
 - Region 7, ward 102 - located on the Farm Vleiland 752 JR with an extent of 4 665 885.00m² (4 665.88 ha). The site is owned by the Republic of South Africa.
 - Region 6, ward 101 - located on the Farm Rietfontein 21 IR. The site is owned by Transnet – 1 541 758.00m² (1 541.75 ha).

Alternative waste treatment feasibility study

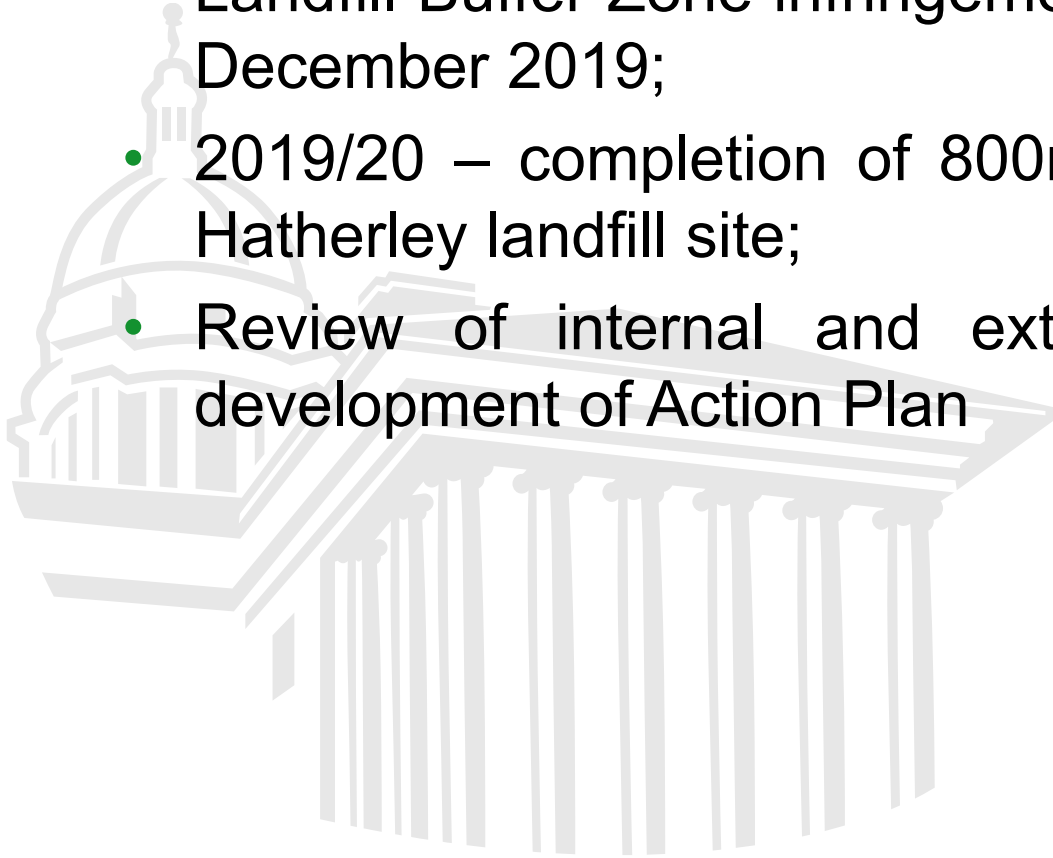


- Faced with dwindling landfill space for waste disposal Gauteng Infrastructure Financing Agency (GIFA) was appointed in March 2015 to conduct Feasibility Study into Alternative Waste Treatment Methodologies
- GIFA allocated a budget and Transactional Advisor was appointed in November 2015
- GIFA and Tshwane signed MoU on the Project – May 2016
- GIFA completed the feasibility study
- The study recommended a waste to energy plant
- A PPP approach is considered for conversion of Pretoria west power station as an incinerator

Measure to improve landfill site compliance



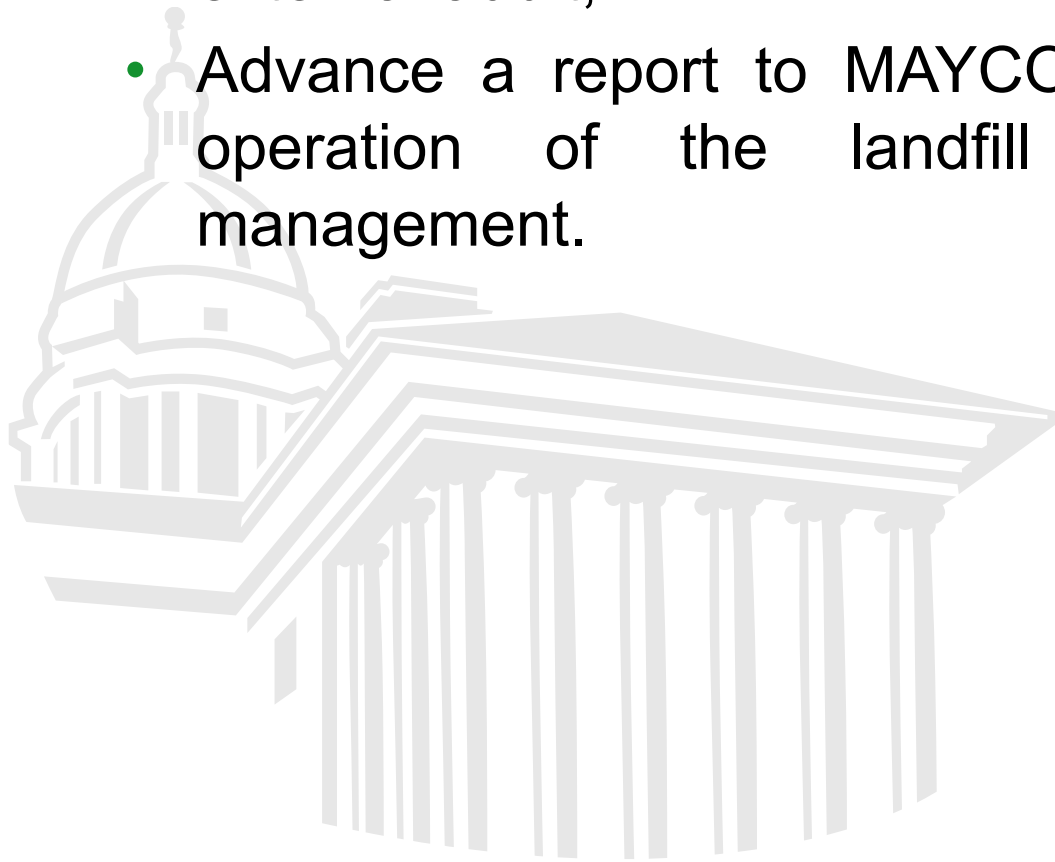
- Airspace assessment and Financial provision report completed in 13 December 2019;
- Landfill Buffer Zone infringement report completed on 04 December 2019;
- 2019/20 – completion of 800m welded mesh fence at Hatherley landfill site;
- Review of internal and external audits as well as development of Action Plan



Measure to improve landfill site compliance.....



- Appointment of Service Provider (Panel) to undertake surface, ground water monitoring as well as independent external audit;
- Advance a report to MAYCO to motivate for external operation of the landfill sites operations and management.





Thank you

