



## EXECUTIVE SUMMARY

# INTEGRATED WASTE MANAGEMENT PLAN 2016-2020

## EXECUTIVE SUMMARY

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### Introduction

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This is an Executive Summary of the second Integrated Waste Management Plan (IWMP) of the Nelson Mandela Bay Municipality (NMBM), defining the NMBM's plan for solid waste management in all areas of the City for the period 2016 – 2020.

In terms of the National Environmental Management: Waste Act (59 of 2008), The Nelson Mandela Bay Municipality is required to compile an IWMP and include it in its Integrated Development Plan (IDP).

The IWMP addresses the vision, objectives and targets for the provision of solid waste management services in the City and covers all aspects of waste management (waste generation to waste reduction, recycling, treatment and disposal in order to reduce waste to landfill), in the following eight sections:

Section 1:	Introduction
Section 2:	Situational Analysis
Section 3:	Institutional Management
Section 4:	Public Participation
Section 5:	Needs Analysis
Section 6:	Waste Management Objectives
Section 7:	Implementation Plan
Section 8:	Conclusion and Way Forward

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**\* Your comments and input on the IWMP are invited and must be submitted by not later than 13 May 2016 (see submission details at end of this document).**

### Approach

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Firstly, the status quo of waste management in the NMBM area had to be established. This was done inter alia through inspections of 22 waste management facilities; a waste characterisation survey of the domestic waste stream; interviews with waste management staff from different depots/offices; meetings with private recycling contractors operating in the NMB area; and an in-depth public perception survey.

A 'Needs List' was then drawn up based on the outcome of the above. The needs list presented all the waste management issues identified in the NMBM area and grouped them under common headings. Key issues identified from the Needs List were used to

develop waste management objectives. Workshops were held, during which a number of waste projects were proposed. These projects will serve as the vehicles through which the objectives will be met.

### Waste Characterisation

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Waste from four neighbourhoods in the City was surveyed, covering high, medium and low income groupings.

The organic fraction was the largest waste fraction by weight for all areas surveyed and made up on average 39% of the domestic waste stream. Recyclables (paper, cardboard, metal, glass and plastics) represented approximately 37%. Hazardous waste (batteries, fluorescent tubes, and paints), which included infectious and health care risk waste (e.g. sharps, medicines, used nappies) ranged from 6-17% of the waste stream in different areas.

### Public Perception Survey

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A survey was undertaken to determine the public's perception of and satisfaction with the NMBM's current solid waste management service, covering a range of topics, including collections, disposal, and recycling. A total of 1,111 surveys were completed. Key results included the following:

- 55% of respondents viewed the refuse collection service as good or very good
- 51% of respondents viewed their area as good or very good in terms of litter
- 75% of respondents were unaware of who to contact regarding illegal dumping
- 58% of respondents were unaware of the location of their nearest drop-off centre
- 79% of respondents did not recycle
- 52% of respondents were unaware of what constituted domestic hazardous waste
- 55% of respondents viewed the current waste management service as good, very good or excellent

### Needs Analysis

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Numerous issues were raised by the public and NMBM staff during the above process. From these, key issues were distilled, as presented in the table below.

TOPIC	FINDING
<b>INSTITUTIONAL ISSUES</b>	
Internal capacity	<i>NMBM Waste Management has a general shortage of staff.</i>
Waste Planning	<i>There is a lack of long term infrastructure and operation planning.</i>
Waste Information and Data Management	<i>Data management is lacking in some areas</i>
<b>SERVICE DELIVERY ISSUES</b>	
Recycling	<i>Only limited recycling of domestic waste at source is occurring and the NMBM needs to put systems in place to achieve its legal recycling mandate.</i>
Collection services	<i>Collection services in some areas do not conform to the National Domestic Waste Collection Standards (GN 21, Jan 2011)</i>  While a weekly collection service is presented in the National Domestic Waste Collection Standards (GN 21, Jan 2011) as the minimum requirement, approximately 94,399 local households receive have a fortnightly refuse collection service on wheelee bins.
Waste management fleet	<i>Much of the waste management fleet is old and requires replacement.</i>
Landfills	<i>The landfill sites do not meet permit requirements</i>
By-laws and Enforcement	<i>Effective enforcement of the waste management by-laws is not being achieved</i>  Additional town rangers are required to enforce by-laws and address illegal dumping. Mobile CCTV cameras are needed in illegal dumping hot spots. Support is needed from Safety and Security Department to bring repeat offenders to court Public need to be informed of who to contact should they witness illegal dumping
<b>PUBLIC AWARENESS AND COMMUNICATION ISSUES</b>	
Waste Management Awareness	<i>Waste Management is not "mainstreamed" in the NMBM area</i>  There is a lack of awareness regarding key waste management issues such as what can be recycled, where to drop off recyclables, the by-laws and their enforcement and how to report illegal dumping cases. Communication between NMBM Waste management and the public as well as industry can be improved.
Complaints management	<i>Complaints management does not meet the requirements of the National Domestic Waste Collection Standards (GN21 of 2011)</i>

## Objectives

Seven objectives were defined, based on the results of the needs analysis namely:

### Objective 1: Improved Waste Infrastructure and Operational Future Planning

While residential development within the NMBM area continues to expand, so too does the need for waste management infrastructure, including landfill sites, transfer stations and drop-off centres. A long-term plan is required to identify potential sites for such facilities. The NMBM has since commissioned a master planning study to identify potential sites for the development of drop-off centres.

### Objective 2: Provide an Enabling Environment for Recycling

The NMBM has a legal obligation to provide an enabling environment for recycling in terms of the National Domestic Waste Collection Standards (GN 21 of 2011) (NDWCS). The NMBM needs to enable recycling through the provision of recycling facilities at transfer stations and drop-off centres and the use of public awareness campaigns to promote these facilities.

### Objective 3: Eradicate Fortnightly Collection Services

Approximately 30% of households in the NMB area receive a fortnightly collection service on wheely bins. The NDWCS prescribe a minimum of a weekly collection service in urban areas. The fortnightly collection services will be phased out over a period of three years.

### Objective 4: Improve Infrastructure Management

Failing infrastructure, safety and access control are some of reasons for waste management infrastructure including landfill sites, drop-off centres and transfer stations failing to meet permit requirements. The NMBM needs to improve management and infrastructure to ensure these facilities are compliant with permit requirements by 2019.

### Objective 5: Reduce Illegal Dumping

The NMBM will reduce illegal dumping by 50% by 2020 by continuing regular audits, public awareness campaigns and operating a functional, and capacitated waste law enforcement unit. The unit will investigate and implement the best methods for detecting illegal dumping (e.g. CCTV monitoring of hotspots) and administrating fines.

### Objective 6: Improve Public Awareness

Change in waste management practice is being driven by rapidly changing legislation and there will be a growing need to communicate with the residents of the NMB area as the NMBM responds to these changes.

## Objective 7: Improve Public Perception

In public perception surveys conducted in 2006 and 2011 approximately 55% of respondents viewed the NMBM's waste management service positively. The NMBM intends to increase this to 70% by 2020 through improved service delivery, and generating awareness amongst its residents.

### Projects and Way Forward

An implementation plan has been developed to assist the NMBM in meeting the objectives described above. This plan, which forms part of the IWMP, contains a number of projects and initiatives which should move the NMBM towards realising these objectives. The 35 projects listed below span a period of 5 years.

No	Project	2016				2017				2018				2019				2020			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>IWMP PLANNING PROJECTS</b>																					
1	Waste Infrastructure and Operational Demand Master plan																				
2	Waste beneficiation and waste to energy (planning phase)																				
3	Waste Guidelines and Development Standards																				
4	Waste Characterisation and Sampling standards																				
5	Feasibility Study: Recycling of Domestic Hazardous Waste																				
6	Revision of Waste Management Organogram and Resources																				
7	To pursue the utilisation of Community Based Co-operatives in execution of Waste Management Functions																				
8	Wheelie bin replacement policy																				
<b>WASTE MINIMISATION</b>																					
9	Develop a Waste Minimisation Strategy																				
10	"Where and How to Recycle" Information Document.																				
11	To facilitate Recycling at																				

No	Project	2016				2017				2018				2019				2020			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
	all Transfer Stations and Drop-off Centres																				
12	To Facilitate In-House Municipal Recycling																				
13	Formal Review of Blue Horizon Bay Recycling Project																				
14	Expansion of the Two Bag Source Separation Recycling Project																				
15	Pilot centralised composting at Blue Horizon Bay																				
16	Review and upgrade of online Waste Exchange																				
<b>WASTE COLLECTION</b>																					
17	Increasing the frequency of refuse collection in low to medium income areas to once a week.																				
18	To investigate the most appropriate and cost-effective utilisation of Municipal Fleet in waste management																				
<b>WASTE TRANSFER &amp; DISPOSAL</b>																					
19	Increasing the nr of Transfer stations / Drop-off Centres in line with WM Strategy																				
20	Ensure compliance with all permit conditions and applicable legislation at Landfill Sites																				
<b>ILLEGAL DUMPING</b>																					
21	Implementation of the Illegal Dumping Strategy																				
<b>PUBLIC AWARENESS &amp; COMMUNICATION</b>																					
22	Public Awareness Strategy and Plan																				
23	Review Public Awareness & Education programme																				
24	Preparing a Public Perception Protocol document																				
25	Review of the Complaints Management System																				
26	Develop an information																				

No	Project	2016				2017				2018				2019				2020			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
	leaflet on "How to handle your waste"																				
27	Waste Information Calendar																				
<b>INFORMATION MANAGEMENT</b>																					
28	In-house Waste Info Portal																				
29	Review of the weighbridge software and the current categorisation system																				
<b>LEGISLATION AND ENFORCEMENT</b>																					
30	Review By-laws																				
31	Enforcement strategy																				
<b>STAFF DEVELOPMENT</b>																					
32	Review of induction material																				
33	Review of Skills Plan and identify relevant waste training																				
34	IWMP Awareness Campaign. Repeat in-house awareness campaign																				
<b>FINANCIAL</b>																					
35	Investigate possible alternative funding sources																				

Regular and on-going monitoring of the IWMP is required to ensure that its objectives are accomplished. Monitoring of the success of projects during the IWMP implementation phase will ensure that corrective action is taken, when necessary.

A close-down report will be completed in 2020 at the end of this IWMP's five-year lifespan. This report should evaluate the successes and challenges associated with the proposed projects.

## Public Participation

The draft IWMP document will be made available at the following locations:

- All municipal Libraries
- Ward Councillors' offices
- Waste Management Depots (Addo Rd, Gail Rd, Harrower Rd, Struanway and Cuyler Street (Uitenhage).
- 14<sup>th</sup> floor Reception, Lillian Diedericks Building, Govan Mbeki, Port Elizabeth

- Nelson Mandela Bay Business Chamber
- All municipal Customer Care Centres (see table below for details)

Location	Address
Cleary Park Office	Cleary Park Shopping Centre (cnr Norman Middleton and Stanford Rd)
Daleview Office	Cnr Hoog and Long Streets, Despatch
Despatch Office	Main Road, Despatch
Mfanasekhaya Gqobose Building (Eric Tindale)	Govan Mbeki Avenue, Central
Khayamandi Office	29 Chief Albert Luthuli Street, Despatch
Korsten Office	Ablett Street, Korsten
KwaNobuhle Office	Mkoko Street, KwaNobuhle (next to Police station)
Motherwell Office	Raymond Mhlaba Sports Centre
Addo Road Office	Addo Road, Motherwell
New Brighton Office	Ntsekisa Road, New Brighton
Uitenhage Office	Town Hall Building, Uitenhage
Walmer Office	The Avenues, Heugh Road
Zwide Office	Johnson Road, Zwide

**The Draft IWMP will also be available for download from the websites below:**

- GIBB website: <http://projects.gibb.co.za>
- NMBM website: <http://www.nelsonmandelabay.gov.za/>

**Comments on the IWMP can be submitted in writing to GIBB, using the following methods:**

Email (preferred): [kparkinson@gibb.co.za](mailto:kparkinson@gibb.co.za)

Fax: 041 363 9300

Post: PO Box 63703, Greenacres, 6057

**ALL COMMENTS MUST BE SUBMITTED BEFORE 13 MAY 2016.**