



DEPARTMENT of
ENVIRONMENTAL AFFAIRS
& DEVELOPMENT PLANNING
Provincial Government of the Western Cape

Landfill Interest Group Workshop

University of Stellenbosch Business School
Bellville Campus

18th August 2011

Contents

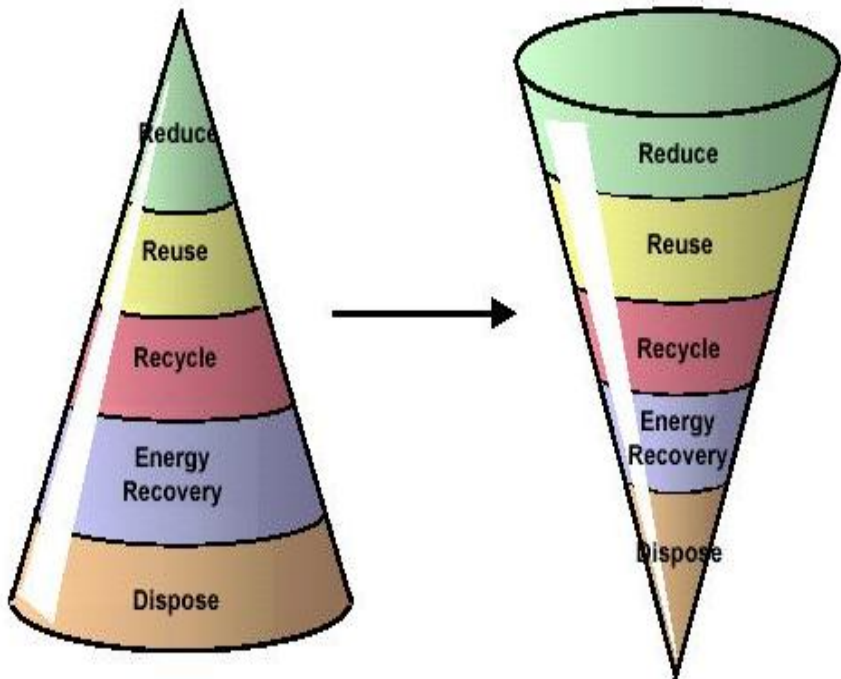
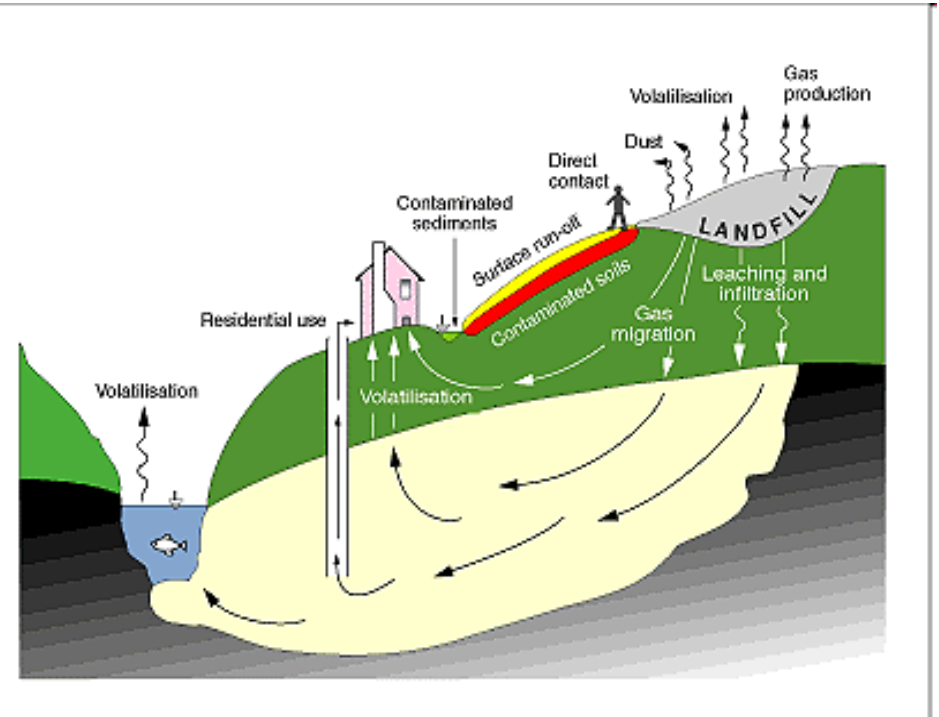
- Background
- Development of Industry Waste Management Plans (Ind WMP's) in the Western Cape
- Integrated Pollutant and Waste Information System

Background

- National government has 12 priorities
- Outcome 10 – Environmental assets and natural resources that are well protected and continually enhanced
 - 25% diversion from landfills by 2012
 - 80% permitted landfill sites by 2015
 - (56 out of 148 landfills-38%)
 - 75% house holds with basic waste collection by 2014

Background

- Provincial government has 12 Strategic Objectives
- SO7 - Mainstreaming Sustainability and Optimising Resource-use Efficiency
 - Increase waste diversion from landfill 13% to 15% by 2014 through the following initiatives:
 - Provincial Integrated Waste Management Plan - completed
 - License applications for waste management activities (56 out of 148 landfills-38%)
 - 30 '2nd generation' municipal IWMPs and selected industry WMPs
 - Health Care Waste Management Regulations



Development of IndWMP's- Western Cape

- During 2009/2010 DEA&DP embarked on a pilot project with 16 companies within Consumer-Formulated Chemical Sector (CFCs)
 - Aim: Provide technical advice to the 16 companies on the development of IndWMP's
 - Reason: household hazardous identified priority waste stream within Hazardous Waste Management Plan – target producers of CFC
 - Received funding from Danish International Donor Agency (DANIDA)

Development of IndWMP's- Western Cape

- Engaged with six sub-sectors :
 - Adhesives
 - Cleaning Chemicals
 - Cosmetics
 - Inks
 - Pharmaceutical
 - Paints

Development of IndWMP's- Western Cape

- Scope of the work
 - Conduct site assessments (audit checklist)
 - Audit reports (non-compliances)
 - Development of IndWMP template and guidance document
 - Work-shopped with industry
 - Build capacity with industry
 - Compliance promotion
 - Assessment Criteria
 - Review of Departments guideline

Short Term Scope (2011/12)

- The project will cover the Consumer-Formulated Chemical Sector (CFCs) within the Western Cape.
- It will involve the facilitation of the Voluntary Industry Waste Management Plans.

Deliverables

- A workshop has been conducted with the Consumer-Formulated Chemical Sector (CFCs) in order to facilitate the development of Industry Waste Management Plans (Industry WMPs)
 - Industry Waste Management Plan Guideline
 - Cyclical approach to Industry Waste Management Planning
 - Requirements of the Waste Act(Part 7)
 - Cape Gateway
(<http://www.capegateway.gov.za>)
and IPWIS websites
(<http://ipwis.wcape.gov.za>)

Deliverables

- Engagement with companies with regard to the development of Industry WMPs
 - Conducting site inspections
 - Drafting site visit reports
 - Assessing submitted Ind WMPs
 - Drafting assessment reports

Long term scope (2012 -)

- PIWMP - Identify key industry sectors
 - Galvanising and electro-plating
 - Paper manufacturing industry i.e. paper pulp
 - City of Cape Town waste water treatment works – sewage sludge
 - Dockyards, harbours – shot blasting
 - Petro-chemical industry – process, emergency incidents, spills and contaminated land.
 - Steel industry – Saldanha Municipal Area
 - Institutional laboratories
 - Contaminated land cleanup
 - Pharmaceutical industry
 - Foundries
 - Food and beverage industry

Long term scope (2012 -)

- Engage with Visserhok landfill facility w.r.t hazardous waste production (CCT site and private site)
 - Flammable liquids (Chevron, Pharmaceuticals etc.)
- National Industrial Policy Framework (NIPF) – adopted in 2007
 - Implementation Industrial Policy Action Plan (2010/11 – 2012/13)
 - New areas of focus – e.g. metal fabrication, iron, steel, Agro-processing
 - Scale up and broaden – e.g. pharmaceuticals and chemicals
- Western Cape Investment and Trade Promotion Agency (WESGRO)
 - Study on FDI into South Africa
 - Renewable Energy, Communications, Metals

What are Industry WMP's

- Co-regulatory instrument
- Describe the waste related issues
- How the industry will address these issues
 - giving specific actions,
 - targets and
 - timeframes.

Benefits

- Protection of the environment
 - Through sound waste management practices
 - “Greener products”
 - Contribute to waste minimization
 - Reduced waste to landfill
 - Reduce illegal disposal/discharge of waste
- Positive impacts on the productivity and finances of companies
 - Lower waste disposal, energy etc. costs
 - More efficient manufacturing processes (e.g. Near Infra-red)
 - Improve their compliance levels with applicable environmental legislation.

Legislative Requirements

- Part 7 of the Waste Act,
 - section 28 to section 34
- Mandatory
 - Section 28(1) to (6) of the Waste Act
- Voluntary basis
 - Section 28(7) of the Waste Act
- Consideration of the factors listed in section 28(4)



Legislative Requirements

- Minister or MEC may by written notice request (Section 28(1) & (2))
- Person, category of persons or industry

Legislative Requirements

- Initial Consultation (section 28(5))
 - Between minister/MEC and
 - representatives of facility,
 - company,
 - industry
 - sector.
 - Initiated by relevant units within departments of minister and MEC
 - Industry rendering input for written notice -
Facility information

Legislative Requirements

- Written notification or a gazette
 - Written notification (company)
 - Gazette (group of companies)
 - <http://www.info.gov.za>

Legislative Requirements

- Determination of capacity
 - In-house or external and independent service provider
 - Minister or MEC reserves the right
 - Suitably qualified

Legislative Requirements

- Consultation with other stakeholders
 - Organs of state, interested persons & public
 - Kept of record of inputs and replies
 - Attached to final Industry Plan
 - Minister or MEC reserves the right

Legislative Requirements

- Industry WMP submission
 - To Minister or MEC.
 - Relevant units within departments in written notice or gazette.
 - Attach inputs and replies wrt public participation

Legislative Requirements

- Minister or MEC's direction
 - May give directions after plan is submitted e.g. further consultation with stakeholders.
 - Demonstrate compliance with directions.

Legislative Requirements

- Consideration of stakeholder inputs and resubmission
 - Stakeholder inputs must be considered and addressed
 - Response to inputs to be also kept on file

Minimum Contents of Ind WMP's (section 30(2))

- the amount of waste.
- measures to prevent pollution or ecological degradation.
- targets for waste minimisation
- measures or programmes to minimise the generation of waste disposal
- measures or actions to manage waste;
- the phasing out substances(e.g. toxic, VOC, etc)

Minimum Contents of Ind WMP's (section 30(2))

- packaging, product design or production processes
- Informing the public of the impact of the waste
- consumer-based waste reduction programmes;
- the period that is required for implementation of the plan;
- methods for monitoring and reporting; and
- other

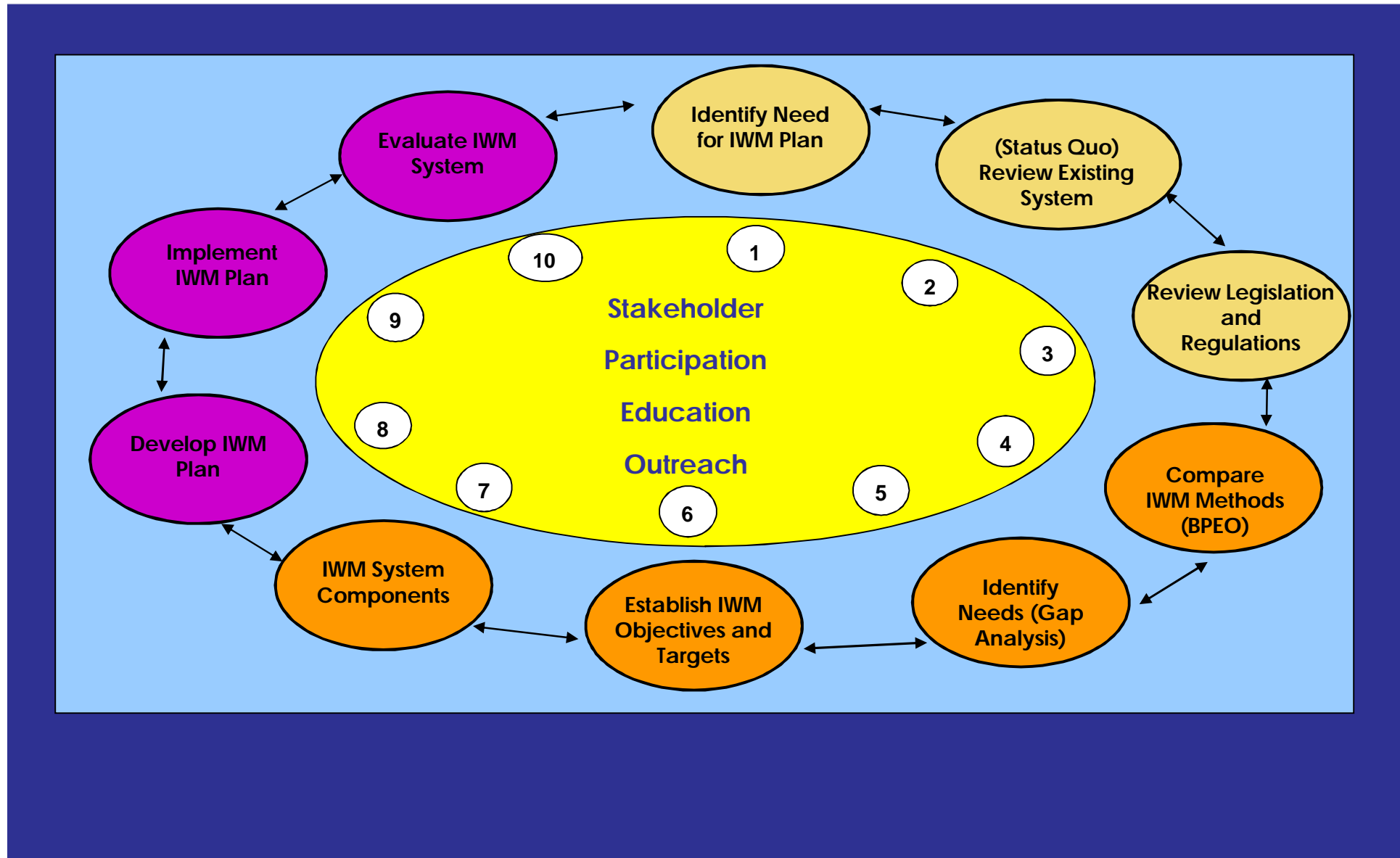
Decision-making of IWMP's (sections 32 & 33)

- Approve
- Reject
- Request Additional information
- Amendments
- Rejects more once or industry fails to submit
 - Written notice – non legal
- Administrative enforcement e.g. compliance notice
- Offence for not submitting
- R5mil & or not > 5years

Types of plans

- Waste Stream
 - Batteries, tyres, waste electronic, electrical equipment
 - Apply to associations members and non-members.
- Sector
 - Drum reconditioners, scrap yards, dry cleaners and photographic developers
 - Submit individual company plans to sector body.
- Company
 - Larger companies with multiple sites and license requirements
- Site
 - Power station sites of electrical produces

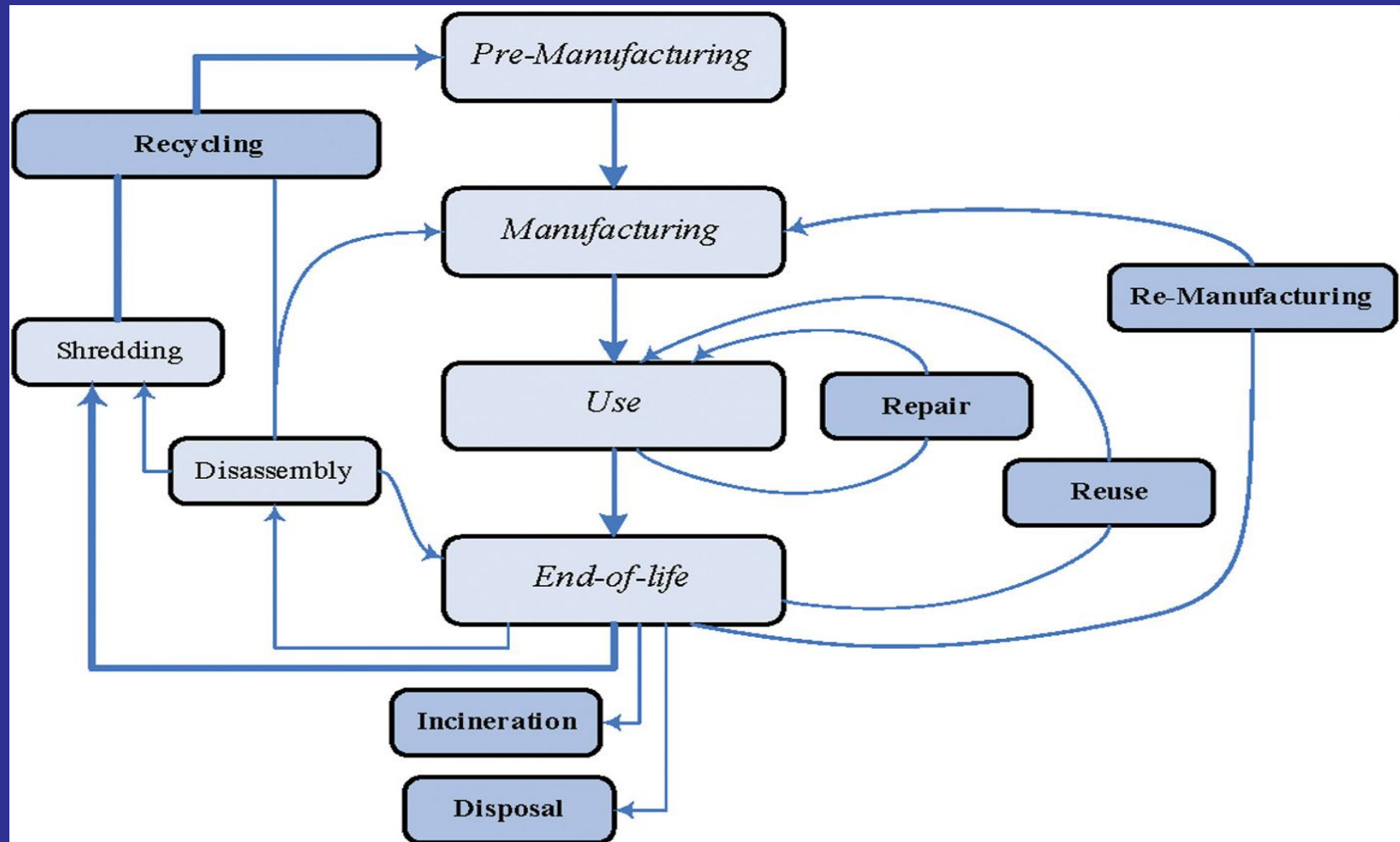
INTEGRATED WASTE MANAGEMENT PLANNING CYCLE



Industry Guidance

- Status Quo
 - assess the entire operational process of the facility
 - baseline information
 - waste streams, raw material acquisition, training, infrastructure etc
 - waste classification and categorization
 - assessment checklist

Status Quo



Waste Classification and Management Regulations

- Waste Classification and Management Regulations
 - SANS 10234 – South African National Standard Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
 - Safety Data Sheets
 - Waste Manifest System
 - Waste Act
 - Government Notice 718 List of waste management activities
 - Waste reporting (waste categorisation)
 - **Workshop in September**

Industry Guidance

- BPEO Analysis
 - benchmark – compared against Status Quo
 - Based on Waste Hierarchy
 - Cost, Environmental effect, Practicability

Industry Guidance

- Gap Analysis
 - How does current waste management practice compare with the BPEO for the specific waste stream?
 - What is the best management method for the specific waste stream?

Industry Guidance

- Objectives and targets
 - reflect compliance with principles to waste management hierarchy
 - specific and measurable
 - clearly defined activities and timeframes



Industry Guidance

- Objectives and targets
 - Legal compliance (where legal non-compliance issues are identified)
 - Waste minimisation
 - Waste separation
 - Recycling
 - Effluent treatment
 - Records and quantities kept of all waste streams
 - Records kept of safety disposal certificates
 - Staff training in waste management

Industry Guidance

- Implementation
 - Develop a plan of action
 - scheduling
 - budgets
 - assigning responsibilities

Industry Guidance

- Monitoring
 - Are projects on schedule, are they meeting the target dates?
 - Are there any legislative developments or changes?
- Reporting to IPWIS

Access to guideline

- http://www.capegateway.gov.za/other/2011/8/industry_waste_management_plan_guideline.pdf
- <http://ipwis.pgwc.gov.za/iPWIS/default.html>

Integrated Pollutant and Waste Information System (IPWIS)

- <http://ipwis.pgwc.gov.za/iPWIS/default.html>
 - The system is operational
 - Registration of waste management facilities
 - Reporting of waste management facilities
 - Finalizing SAWIS/IPWIS interface
 - WIS Regulations to come into effect end September 2011.

Integrated Pollutant and Waste Information System (IPWIS)

- Health-Care Risk Waste Regulations
 - Public participation workshops
 - Implementation December 2011/January 2012
 - Conducting training on IPWIS registration

Conclusion



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Thank You