



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

SUPPLEMENTARY WATER USE INFORMATION (ONLY APPLICABLE FOR NWA – SECTION 21g WATER USES)

DETAILS OF WASTE MANAGEMENT FACILITY

1. WASTE MANAGEMENT FACILITY DETAILS

1.1 Name of Waste Management Facility

1.2 Fatal flaw indicators

If any of the following criteria apply to the site, or will apply to a proposed site, mark with an X

- In an area below the 1 in 100 flood line of any watercourse
- In unstable areas (e.g. fault zones, seismic zones, dolomitic or karst areas, areas with sinkholes or subsidence)
- In sensitive ecological and/or historical areas
- In a catchment area for important, "significant" or sensitive surface water resources
- In an area with shallow or emergent groundwater, or characterised by flat gradients (wetlands, vleis, springs, etc.)
- In an area characterised by steep gradients (e.g. where problems with stability could be experienced)
- Areas of groundwater recharge on account of topography and/or highly permeable soils
- Overlying or adjacent to important or potentially important aquifers (Parsons classification: Sole source, major)
- Within an area with shallow bedrock and limited available cover material
- Areas in close proximity to land uses that are incompatible with waste disposal activities
- Areas where adequate buffer zones are not possible

1.3 Method of disposal

- Trenching
- Ash-blending
- Co-disposal
- Other (specify) _____

1.4 Distance from nearest borehole used for drinking water or stock watering

meters

1.5 Distance from the edge of nearest downstream surface water resource

meters

1.6 Lining of the site

- a) The site is / will be Lined
- b) If lined, the lining system is Clay
- (Mark the applicable option with an X) Composite lining system

1.7 Total area of 'property' on which waste is disposed

hectares

1.8 Area of actual waste body ("footprint" area)

hectares

1.9 Dimensions of waste site

	Height or depth	Length	Breadth																															
a) At commencement	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>											<table border="1"><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>											<table border="1"><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>											meters
b) After rehabilitation	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>											<table border="1"><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>											<table border="1"><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>											meters
c) Available air space				cubic meters																														
d) Total volume already used for waste disposal				cubic meters																														
e) Accuracy of above volumes	<input type="checkbox"/> Surveyor	<input type="checkbox"/> Estimate																																

1.10 Buffer Zone

a) Actual distance to the boundary of the nearest:

- Formal residential area
- Informal residential area
- Industrial Area

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b) Buffer zone determination done by Scientific method Actual distance

1.11 Location of Waste Management Facility

1.11.1 Geographical location for each of the external corner points of the waste management facility:

Latitude	<input type="text" value="S"/>	<input type="text"/>	°	<input type="text"/>	'	<input type="text"/>	''	or	<input type="text" value="S"/>	<input type="text"/>	°	or	<input type="text" value="S"/>	<input type="text"/>	°	<input type="text"/>	'	<input type="text"/>	''
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Datum Type:	<input type="checkbox"/> Cape (Modified Clarke 1880)		<input type="checkbox"/> WGS-84																

1.11.2 Drainage Region Details:

Quaternary Drainage Region

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1.12 Climatic water balance

The wettest six months of the year are November to April May to October

The wettest years during the past thirty years were (populate at least one year's details with both rainfall and evaporation detail completed)

Rating	Year	Total rainfall for 6 months	mm	Total evaporation (A-pan) for 6 months	mm	Official use												
Wettest year	<table border="1"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>					<table border="1"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>					mm	<table border="1"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>					mm	<input style="width: 100%;" type="text"/>
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3 rd wettest	<table border="1"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>					<table border="1"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>					mm	<table border="1"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>					mm	<input style="width: 100%;" type="text"/>
4 th wettest	<table border="1"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>					<table border="1"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>					mm	<table border="1"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>					mm	<input style="width: 100%;" type="text"/>
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Site-specific water balance factors _____

If leachate is visible (for existing facilities only) mark with an X

Other site specific water balance factors (specify) _____

1.13 Details of the person in control of the site

Surname

Initials &/or First Name

Title ID No.

Phone Number Ext

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Fax Number Cellphone

E-mail Address

- Highest Educational Qualification
- | | | |
|--|---|---------------------------------|
| <input type="checkbox"/> Grade 8 / Std 6 | <input type="checkbox"/> Grade 10 / Std 8 | <input type="checkbox"/> Matric |
| <input type="checkbox"/> Diploma | <input type="checkbox"/> Higher Diploma | <input type="checkbox"/> Degree |

2. OPERATION OF THE WASTE MANAGEMENT FACILITY

2.1 Type of operation

- Landfill or Landbuild
 Transfer station
 Recycling facility
 Incinerator
 Composting plant
 Storage area
 Treatment plant
 Encapsulation
 Other (specify)

2.2 Length of time of the operation

Start Date
(ccyymmdd)

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End Date
(ccyymmdd)

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2.3 Is sufficient cover material on site?

- Yes
 No

2.4 Covering and burning of waste (mark applicable options with an X)

- Daily compaction and covering
 Weekly compaction and covering
 Burning of waste

2.5 Is leachate management system present?

- Yes
 No

2.6 Storm water management (mark the applicable options with an X)

- Upstream cut-off trenches
 Contaminated storm water storage facility

3. MANAGEMENT PRACTICES OF THE WASTE MANAGEMENT FACILITY

Tick the options that describe the management practices for the waste facility or site

Artificial Wetlands	<i>Facility is generally lined (clay liners typically) and are designed to receive 120l/m²/d at a depth of 30 cm.</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Stormwater and seepage drains</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Any other practice:</i>	_____	
Ash Dams/Dumps	<i>Facility is lined (synthetic or clay)</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Side slopes stabilized to minimize erosion</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Rainfall runoff collected into a dirty water storage facility</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Collection of percolated storm water via under drains into collection sumps, which should pump the water to a dirty water storage facility</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>For pits, ingress of water is prevented</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Any other practice:</i>	_____	
Coal Dams	<i>Lined facility (synthetic or clay liners)</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Seepage drains in place</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Storm water drains in place & connected to the polluted storm water system</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Effluent in the dam is not of acidic pH</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Dam is covered to prevent contact with oxygen</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Facility does not maintain anaerobic conditions</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Any other practice:</i>	_____	
Effluent Dams	<i>Lined facility (synthetic or clay)</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Facility has seepage drains</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Splitting of facility into 2 separate compartments for the purposes of cleaning and management</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Any other practice:</i>	_____	
Evaporation Dams/Ponds	<i>Lined facility (synthetic or clay)</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Facility is of sufficiently large size to ensure that full evaporation of effluent is achieved</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Seepage drains in place</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Storm water collection drains in place</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Any other practice:</i>	_____	
Forced Evaporation	<i>Evaporation only with wind speeds less than 2m/sec</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>No evaporate pre-dawn as humidity is high</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Any other practice:</i>	_____	

Continued on next page

Maturation Ponds

Facility lined (synthetic or clay)

Yes

No

Facility designed to ensure at least 5 days retention time

Yes

No

Storm water and seepage collection drains in place

Yes

No

Any other practice:

Waste Water Ponds

Lined facility (synthetic or clay)

Yes

No

Storm water collection drains in place

Yes

No

Seepage drains in place

Yes

No

Any other practice:

Open Cast Voids

Diversion of upslope storm water around the void

Yes

No

Upstream diversion berms or management measures to prevent inflow of water into the void

Yes

No

Prevention of water flowing into the void by using highball drains where necessary

Yes

No

Ensure any water within the void is contained

Yes

No

Any other practice:

Oxidation Ponds

Lined facility (synthetic or clay)

Yes

No

Adequate structures in place to ensure capture of a 1:50 year storm event

Yes

No

Seepage drains in place

Yes

No

Storm water collection drains in place

Yes

No

Any other practice:

Polluted Stormwater System

Storm water discharged directly to the resource

Yes

No

Collection system incorporating the plant, raw material stockpiles and waste disposal facilities

Yes

No

Clean stormwater separated from stormwater draining "dirty" sites or facilities

Yes

No

Polluted stormwater collected & stored in dams

Yes

No

Any other practice:

Return Water Dams

Sizing to accept seepage from the under drainage systems and decant systems for up to the 1:50 year rainfall event, over and above normal operating conditions

Yes

No

Any other practice:

Continued on next page

Sewage Treatment Works

- Pump stations operational* Yes No
- Emergency storage dam(s) available* Yes No
- Adequate capacity in emergency storage dams* Yes No
- Compliance with minimum discharge standards* Yes No
- Stormwater collection system in place* Yes No
- Adequate capacity to contain total volume* Yes No

Any other practice: _____

Silt Dams

- Lined facility (synthetic or clay)* Yes No
- Stormwater collection system in place* Yes No
- Seepage drains in place* Yes No

Any other practice: _____

Slag Dumps

- Stormwater collection system in place* Yes No
- Seepage drains in place* Yes No
- Separation of clean & dirty water* Yes No
- Capacity to handle the 1:50 year storm event* Yes No
- Collection of rainfall run-off into the dirty water storage facility* Yes No
- After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated* Yes No
- Implementation of under drainage systems to collect seepage for re-use as process water* Yes No

Any other practice: _____

Slimes/Tailings Dams

- Stormwater collection system in place* Yes No
- Seepage drains in place* Yes No
- Separation of clean & dirty water* Yes No
- Capacity to handle the 1:50 year storm event* Yes No
- Collection of rainfall run-off into the dirty water storage facility* Yes No
- After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated* Yes No
- Implementation of under drainage systems to collect seepage for re-use as process water* Yes No
- Covering of side slopes with soil during the operational phase to assist in reducing any contact of rainfall runoff with the tailings* Yes No
- Vegetation of side slopes to minimise erosion* Yes No

Any other practice: _____

Continued on next page

Sludge Drying Beds	<i>Facility is lined (synthetic or clay)</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Seepage drains in place</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Storm water drains in place</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Moisture reduction of sludge</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Incorporation of sludge into soil</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Leachate management system in place</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Mixing of high moisture content or liquid waste with dry waste</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Sludge Ponds/Lagoons	<i>Facility is lined (synthetic or clay)</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Seepage drains in place</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Storm water drains in place</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Capacity to handle the 1:50 year storm event</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice: _____		

Waste Rock Dump	<i>Stabilisation of side slopes to minimise erosion</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Rainfall runoff collected into a dirty water</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Covering of terraces or step-ins with a soil layer, followed by paddocking & vegetation to minimise ingress of water into the dump</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Collection of percolated stormwater via under drains into collection sumps which should pump the water to a dirty water storage facility</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice: _____		

Waste Storage	<i>Lined facility (synthetic or clay)</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Leachate management system in place</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Leachate detection layer in place</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Leachate collection layer in place</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Seepage drains in place</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>Stormwater drains in place & connected to the polluted stormwater system</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	<i>For pits, ingress of water is prevented</i>		
Any other practice: _____			

Continued on next page

