

## 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
	Overlaying 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
4.0	
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 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
	b) If lined, the lining system is
	(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" are	a)	hectares
1.9	Dimensions of waste site		
		Height or depth	Length Breadth
	a) At commencement		meters
	b) After rehabilitation		meters
	c) Available air space		cubic meters
	d) Total volume already used for waste disposal		cubic meters
	e) Accuracy of above volumes	☐ Surveyor	☐ Estimate
1.10	Buffer Zone		
	a) Actual distance to the boundary of the nearest:	Formal residential a	area m
		Informal residential	area m
		Industrial Area	m
	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 exte	rnal corner points of	the waste management facility:
Latitude	S or	S .	° or S ,
Longitude	E	E	° or E ,
	Datum Type:	80)	
Latitude	S , , , or	S .	° or S
Longitude	E	E   .	or E
	Datum Type:	80)	
Latitude	S . , , , , , or	S	or S ,
Longitude	E	E   .	or E ,
	Datum Type: Cape (Modified Clarke 18	(80) WGS-84	
Latitude	S , , , or	S .	° or S ,
Longitude	E	E	° or E
	Datum Type: Cape (Modified Clarke 18	80) WGS-84	
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Longitude	E	E .	° or E
	Datum Type:	80)	

Drainage Ro Details:	egion	Quaternary Drainage F	Region			
Climatic wa	ter balance					
The wettest six	months of the year	ar are Nover	mber to April		☐ May to C	ctober
The wettest year	ars during the pas	t thirty years were (populate a	at least one y	ear's details with bot	th rainfall and evap	oration detail complete
				Total evaporation		
Rating	Year	Total rainfall for 6		(A-pan) for		Official use
Rating	i cai	months		6 months		Official use
Wettest year			mm		mm	
2 <sup>nd</sup> wettest			mm		mm	
3 <sup>rd</sup> wettest			mm		mm [	
4 <sup>th</sup> wettest			mm		mm [	
5 <sup>th</sup> wettest			mm		mm [	
6 <sup>th</sup> wettest			mm		mm	
7 <sup>th</sup> wettest			mm		mm	
8 <sup>th</sup> wettest			mm		mm	
9 <sup>th</sup> wettest			mm		mm	
10 <sup>th</sup> wettest			mm		mm	
	ater balance factor	79	111111			
Other site spec	ific water balance	facilities only) mark with an X factors (specify)  control of the site				
Initials &/or I	First Name					
Title	[			ID No.		
Phone Numb	oer [			Ext		]
	[			Cellphone		
Fax Number						
Fax Number E-mail Addre	ess [					

Landfill or Landbuld   Transfer station   Recycling facility   Incinerator     Composing plant   Storage area   Treatment plant     Encapsulation   Other (specify)	☐ Composting plant       ☐ Storage area         ☐ Encapsulation       ☐ Other (specify)         Length of time of the operation       Start Date (ccyymme)         Is sufficient cover material on site?         Covering and burning of waste (mark applicable)         ☐ Daily compaction and covering         ☐ Burning of waste         Is leachate management system present?         Storm water management (mark the applicable operation)	Treatment plant  Be endd)  Yes  No  e options with an X)  Yes  No  Weekly compaction and covering  No  Ptions with an X)
Length of time of the operation  Start Date (ccyymmdd)  Is sufficient cover material on site?  Yes  No  Covering and burning of waste (mark applicable options with an X)  Daily compaction and covering  Burning of waste  Is leachate management system present?  Yes  No  Storm water management (mark the applicable options with an X)	☐ Encapsulation       ☐ Other (specify)         Length of time of the operation       Start Date (ccyymme)         Is sufficient cover material on site?         Covering and burning of waste (mark applicable)         ☐ Daily compaction and covering         ☐ Burning of waste         Is leachate management system present?         Storm water management (mark the applicable operation)	e and Date (ccyymmdd)  Yes No e options with an X)  Weekly compaction and covering  Yes No  No
Length of time of the operation  Start Date (ccyymmdd)  Is sufficient cover material on site?  Yes  No  Covering and burning of waste (mark applicable options with an X)  Daily compaction and covering  Burning of waste  Is leachate management system present?  Yes  No  Storm water management (mark the applicable options with an X)	Length of time of the operation  Is sufficient cover material on site?  Covering and burning of waste (mark applicable pairs)  Daily compaction and covering  Burning of waste  Is leachate management system present?  Storm water management (mark the applicable operation)	e options with an X)  Yes No  Weekly compaction and covering  Yes No  No
Is sufficient cover material on site?	Is sufficient cover material on site?  Covering and burning of waste (mark applicable Daily compaction and covering Burning of waste  Is leachate management system present?  Storm water management (mark the applicable of	e options with an X)  Yes No  Weekly compaction and covering  Yes No  No
Covering and burning of waste (mark applicable options with an X)  Daily compaction and covering  Burning of waste  Is leachate management system present?  Yes  No  Storm water management (mark the applicable options with an X)	Covering and burning of waste (mark applicable Daily compaction and covering Burning of waste  Is leachate management system present?  Storm water management (mark the applicable of	e options with an X)  Weekly compaction and covering  Yes No  ptions with an X)
□ Daily compaction and covering       □ Weekly compaction and covering         □ Burning of waste       □ Yes         Is leachate management system present?       □ Yes         □ No         Storm water management (mark the applicable options with an X)	☐ Daily compaction and covering ☐ Burning of waste  Is leachate management system present?  Storm water management (mark the applicable or	<ul> <li>☐ Weekly compaction and covering</li> <li>☐ Yes</li> <li>☐ No</li> </ul> ptions with an X)
☐ Burning of waste         Is leachate management system present?       ☐ Yes       ☐ No         Storm water management (mark the applicable options with an X)	Burning of waste  Is leachate management system present?  Storm water management (mark the applicable or	☐ Yes ☐ No ptions with an X)
Is leachate management system present? Yes No  Storm water management (mark the applicable options with an X)	Is leachate management system present?  Storm water management (mark the applicable or	ptions with an X)
Storm water management (mark the applicable options with an X)	Storm water management (mark the applicable op	ptions with an X)
Upstream cut-off trenches Contaminated storm water storage facility	☐ Upstream cut-off trenches	Contaminated storm water storage facility

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

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 Any other practice:	Yes	□ No
Waste Water	Lined facility (synthetic or clay)	Yes	□ No
· ciiuc	Storm water collection drains in place	☐ Yes	∐ No
	Seepage drains in place Any other practice:	Yes	□ No
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 Any other practice:	Yes	□ No
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 No
	Storm water collection drains in place  Any other practice:	Yes	□ No
Polluted	Storm water discharged directly to the resource	Yes	☐ No
Stormwater System	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  Any other practice:	Yes	□ No
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  Any other practice:	Yes	□ No
			Continued on next page

Sewage Treatment	Pump stations operational	Yes	☐ No
Works	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  Any other practice:	Yes	□ No
Silt Dams	Lined facility (synthetic or clay)	Yes	☐ No
	Stormwater collection system in place	Yes	☐ No
	Seepage drains in place Any other practice:	Yes	□ No
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  Any other practice:	Yes	□ No
Slimes/Tailings	Stormwater collection system in place	Yes	☐ No
Dams	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 Any other practice:	Yes	□ No
			Continued on next page

Sludge Drying	Facility is lined (synthetic or clay)	Yes	☐ No
Beds	Seepage drains in place	Yes	☐ No
	Storm water drains in place	Yes	□ No
	Moisture reduction of sludge	Yes	☐ No
	Incorporation of sludge into soil	Yes	☐ No
	Leachate management system in place	Yes	☐ No
	Mixing of high moisture content or liquid waste with dry waste  Any other practice:	Yes	□ No
Sludge	Facility is lined (synthetic or clay)	☐ Yes	□ No
Ponds/Lagoons	Seepage drains in place	Yes	☐ No
	Storm water drains in place	Yes	☐ No
	Capacity to handle the 1:50 year storm event Any other practice:	Yes	□ No
Waste Rock Dump	Stabilisation of side slopes to minimise erosion	☐ Yes	□ No
	Rainfall runoff collected into a dirty water	☐ Yes	□ No
	Covering of terraces or step-ins with a soil layer, followed by paddocking & vegetation to minimise ingress of water into the dump	Yes	□ No
	Collection of percolated stormwater via under drains into collection sumps which should pump the water to a dirty water storage facility  Any other practice:	Yes	□ No
Wasta Stavage	Lineal facility (a) make the an also d	□ Voc	□ No
Waste Storage	Lined facility (synthetic or clay)	☐ Yes	
	Leachate management system in place	☐ Yes	□ No
	Leachate detection layer in place	Yes	□ No
	Leachate collection layer in place Seepage drains in place	Yes	□ No
	Stormwater drains in place & connected to the polluted stormwater system	Yes	□ No
	For pits, ingress of water is prevented  Any other practice:		
			Continued on next page

Waste Treatmer	nt	C	эрас	city to	o ha	andle	the	1:50	) yea	r st	orm	even	it								Yes			No	
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