Western Cape Government
Environmental Affairs & Development Planning

BETTER TOGETHER.

Waste Management Licence Application

Additional Information Annexure
December 2013

NOTE TO READER: *Cape EAPRac* apologises for presentation of information in this document. It is a pre-populated template provided of which the formatting appears to be incomplete (https://www.westerncape.gov.za/eadp/waste-management).

Waste Management Licence Application Additional Information Annexure (application for new facilities, expansion of existing facilities or decommissioning / closure of existing facilities.)

DECEMBER 2013

DEPARTMENTAL REFERENCE NUMBER(S)

File reference number (EIA):	
File reference number (Waste):	
File reference number (Other):	

PROJECT TITLE

Vrolijkheid Farm repurpose of irrigation dam to evaporation pond for animal effluent.

Kindly note that:

1. For an application for a waste management licence that must subjected to a Basic Assessment or Scoping & Environmental Impact Reporting process, this Annexure must be submitted together with the Basic Assessment Report or Environmental Impact Report. Note that when applying for decommissioning/closure of existing facility only the following sections must be completed 2, 3, 15 and 16.
2. This annexure is current as of December 2013. It is the responsibility of the Applicant / EAP to ascertain whether subsequent versions of the appendix have been published or produced by the competent authority.
3. The required information must be typed within the spaces provided in the report. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. It is in the form of a table that will expand as each space is filled with typing.
4. An incomplete annexure may result in the rejection of the Basic Assessment Report or Environmental Impact Report.
5. The use of "not applicable" in the document must be done with circumspection. Where it is used in respect of material information that is required by the Department for assessing the application, this may result in the rejection of the Basic Assessment Report or Environmental impact Report.
6. **While the different sections of the annexure report only provide space for provision of information related to one alternative, if more than one feasible and reasonable alternative is considered, the relevant section must be copied and completed for each alternative**.
7. Unless protected by law all information contained in, and attached to this report, will become public information on receipt by the competent authority. If information is not submitted with this report due to such information being protected by law, the applicant and/or EAP must declare such non-disclosure and provide the reasons for the belief that the information is protected.
8. This annexure must be submitted together with the Basic Assessment Report or Environmental Impact Report to the Department at the postal address given below or by delivery thereof to the Registry Office of the Department. No faxed or e-mailed reports will be accepted. **Please note that for waste management licence applications, this report must be submitted for the attention of the Department's Waste Management Directorate (tel: 021-483-2756 and fax: 021-483-4425) at the same postal address as the Cape Town Office Region A.**

DEPARTMENTAL DETAILS

DIRECTORATE WASTE MANAGEMENT

Department of Environmental Affairs and Development Planning
Attention: Directorate Waste Management Private Bag X 9086 Cape Town, 8000 Registry Office

Queries should be directed to: Tel (021) 483-2756 Fax (021) 483-4425

Highlight the type of project:	~~**Recycling and/or recovery facility**~~	**Treatment facility**	~~**Disposal facility**~~	~~**Other**~~

Please provide a general description of the project and associated infrastructure:

Existing irrigation farm dam (to be repurposed to receive runoff effluent from the feedlot operations).

The existing dam is a registered irrigation (storage) dam for which the Applicant has given up his irrigation storage volume rights with the Department of Water Affairs in order to use it as a dedicated effluent dam that will capture all runoff from the feedlot.

1. SIZE OF SITE AND FACILITY, AND CLASSIFICATION OF FACILITY

Size of facility for a waste management activity	5 000m^2
Area where the waste management activity takes place	5 000m^2
In terms of waste disposal and composting facilities: Classification of facility in terms of climatic water balance	Not applicable
In terms of waste disposal facilities: Classification of Facility in terms of the type and the quantity of waste received	Not applicable

2. GEOGRAPHICAL COORDINATES OF ALL EXTERNAL CORNER POINTS OF FOOTPRINT OF THE WASTE MANAGEMENT FACILITY

Number of corner	**Latitude (S):**			**Longitude (E):**		
1	33°	21'	20.66"	22°	37'	17.18"
2	33°	21'	23.40"	22°	37'	16.77"
3	33°	21'	23.34"	22°	37'	19.02"
4	33°	21'	20.75"	22°	37'	18.97"
	°	'	"	°	'	"

Please note: The corner numbers must be indicated on a site map to be attached to this annexure.

Figure 1: Existing irrigation dam to be re-purposed as runoff effluent dam for feedlot.

3. DETAILS OF THE PERSON WISHING TO HOLD THE WASTE MANAGEMENT LICENCE

Name of Applicant/Proponent:	Anchor 6 (Pty) Ltd	
Name of contact person for Applicant/Proponent (if other):	Dr JDH le Riche	
Company/ Trading name/State Department/Organ of State:	Anchor 6 (Pty) Ltd	
Company Registration Number:	2023/736341/07	
Postal address:	PO Box 47	
	Klaarstroom	Postal code: 6932
Telephone:	( )	Cell: 082 494 6205
E-mail:	Kabols@anchor6.co.za	Fax: ( )
Company of EAP:	Cape Environmental Assessment Practitioners (Pty) Ltd	
EAP name:	Louise-Mari van Zyl	
Postal address:	PO Box 2070	
	George	Postal code: 6530
Telephone:	044-8740365	Cell: 071 603 4132
E-mail:	louise@cape-eaprac.co.za	Fax: ( )
Qualifications:	MA Geography & Environmental Studies (Stellenbosch University)	
EAP registration no:	2019/1444	

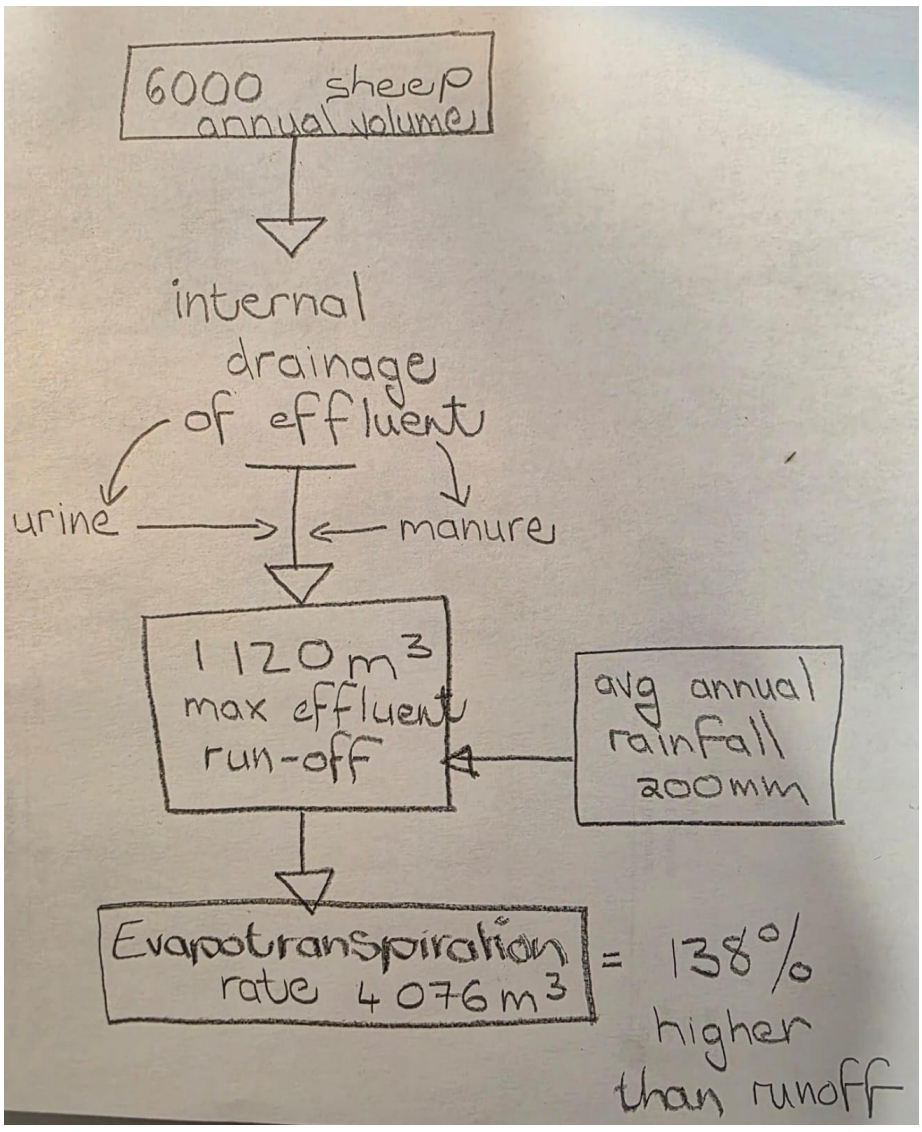
4. DETAILS OF THE OPERATIONAL TIMES

PERIOD	FROM	UNTIL
Weekdays✓ 24hr		
Saturdays✓ 24hr		
Sunday✓ 24hr		
Public holidays ✓ 24hr		

5. DESCRIPTION OF THE WASTE MANAGEMENT ACTIVITIES AND THE WASTE MANAGEMENT OPERATIONS

5.1 Provide a flow chart of the operation showing all inputs and outputs of the process.

The calculated volume of the existing raw water storage dam is 4 409m^3. The total annual rainfall (SA Atlas of Climatology and Agro Hydrology indicates 200mm per annum with highest monthly volume at 70mm) for this arid Karoo district, amounts to 3 200m^3 in volume (yearly). Within the period of a year, the highest daily downpour evaluation (assuming a 70mm downpour which is excessive for this region) would amount to 1 120m^3 of maximum runoff into the effluent/settling dam. The annual evapotranspiration rate for the same period is calculated at 4 076m^3, which is 138% more than the total runoff volume. Considering a worst-case scenario ito unforeseen incidents such as a downpour exceeding the highest daily downpour records, the overall capacity of 4 409m^3 will still be able to hold a higher volume without compromising the receiving environment.



Give particulars of the source, location, nature, composition and quantity of emission to the atmosphere, surface water, sewer, and ground-water including noise emissions. Solid waste must be in cubic metres (m^3) or tons (t) and specify units for liquids and gases.

The feedlot design is such that the sheep kraal areas are mostly all under-roof with only walkways (sheep races) exposed. Runoff from the roofs and exposed areas will accumulate in the internal drainage system / runoff control system, that directs flow to the internal evaporation ponds and ultimately to the central evaporation dam which is the existing farm irrigation dam that will be converted / re-purposed as the central evaporation dam.

Assuming full capacity of the feedlot (6 000 SSU), and taking into account annual rainfall (200mm), and event possible highest daily rainfall volumes (70mm) the design engineer calculated that the existing capacity of the irrigation dam (to be converted to evaporation dam) is 4 409m^3 with a maximum volume of runoff effluent from the facility calculated at 1 120m^3 which is approximately 25% of the total storage volume of the dam. This low volume of effluent within the greater dam capacity means that effluent will be spread over a wide enough area to ensure that the effluent will be shallow. The arid and very hot climate of the Karoo results in very high evapotranspiration rates and the design engineer has confirmed that under such capacity and climatic conditions, the dam will have sufficient capacity for the maximum volume of effluent to evaporate quickly and therefore the dam will function effectively as an evaporation facility.

6. WASTE QUANTITIES

6.1 Indicate or specify types of waste and list the estimated in cubic meters (m^3) or tons (t) expected to be managed daily (in cubic meters or tons):

Hazardous waste	Non hazardous waste	Total
	1 120m^3 annually / 365 days = 3m^3 on average per day	1 120m^3 annually / 365 days = 3m^3 on average per day

6.2 Indicate the source of information supplied in the table above:

Determined from volumes	Determined with weighbridge/scale	Estimated
If estimation is utilised please describe the method used):		
Engineer determined dam capacity based on depth/surface area. Rainfall and evaporation data sourced from reliable weather references and calculations of surface area for the facility obtained from provisional design for the feedlot. Mathematical calculations made to determine total annual runoff that will contain effluent/organic matter and compared with evaporation rates to confirm capacity and volumes.		

RAINWATER RUN-OFF FOR FEEDLOT ON FARM VROLYKHEID 1/177

The run-off storage for the proposed feedlot has been calculated from the average annual rainfall and evaporation figure for this area. The rainfall figure of 200 mm per was obtained from the data of Proff. Schultz published in the SA Atlas of Climatology and Agro Hydrology. The annual evaporation Figure (ETO) of 1387 mm was obtained from ileafweather.com

PENS

Pens will be constructed as such that no rainwater will flow into the retention dam other than the rain directly on to the feedlot area i.e. all other surface flow will be directed away from the dam. Catchment areas consist of pens, feed passages, drainages passages and manure storage areas.

The areas for the three positions of pens namely A, B and C in the provisional design, totals to 16 000 m². The final surface of these areas will be stabilized with cement during construction to make it impermeable to prevent seepage.

RETENTION DAM

The dam surface area was measured as 2 939 m² with average depth 1.5 m i.e. volume 4409 m³. The floor of the dam will be treated with sodium bentonite clay as a sealant. The anticipated dosage will be 40kg Bentonite per 3m^2 area. The dam volume is not only big enough to accommodate the highest monthly downpour over the feedlot area, which could be up to 70mm, but with a capacity of 4409 m^3 accommodate the total annual rainfall runoff, of 3 200m^3. Together with these calculations below prove that the annual evaporation of 4076 m^3 is 138% more than the runoff. This means that the dam will never fill up.

CALCULATION METHOD:

Run-off = Area X annual rainfall
= 16 000 m2 X 200mm
= 3 200 m3

Evaporation = 1 dam area X annual evapotranspiration
= 2 939 m2 X 1387mm
= 4 076 m3

Highest daily downpour evaluation
Run-off max = 16 000 m2 X 70 mm
= 1 120 m3

Dam capacity = Area X depth
= 2 939 X 1.5
= 4 409 m3

7. RECOVERY, REUSE, RECYCLING, TREATMENT AND DISPOSAL QUANTITIES (NOT APPLICABLE FOR DECOMMISSIONING / CLOSURE APPLICATIONS):

7.1 Indicate the applicable waste types and quantities expected to be recovered, reused, recycled, treated and disposed of annually.

Types of waste **(see page 13 for waste classification)**	**Main source (name of company)**	**Quantities (tons or m^3)**		**On-site recovery reuse recycling treatment or disposal**	**Offsite recovery reuse recycling treatment or disposal**	**Offsite disposal**
		Quantities /day	**Quantities /month**	**Method & location**	**Method location and contractor details**	
General waste						
Runoff effluent from sheep feedlot		$3m^3$	91m3	Evaporation Dam		
Hazardous waste						

8. SIZE OF THE POPULATION TO BE SERVED BY THE FACILITY

8.1 Indicate the size of the population to be served by the waste management facility:

Size of population	Comment
0-499	
500-9,999	
10,000-199,999	
200,000 upwards	

~~9. WASTE DISPOSAL FACILITY PARAMETERS (ONLY APPLICABLE TO WASTE DISPOSAL FACILITIES)~~

~~9.1 It is imperative that the holder of the waste licence is a fit and proper person in terms of section 59 of the National Environment Management: Waste Act, 2008 (Act No. 59 of 2008). Please disclose the following:~~

~~a) The method of disposal of waste (**only applicable to waste disposal facilities**):~~

~~Land-building~~	
~~Land-filling~~	
~~Both~~	

~~b) The dimensions of the **disposal site** in metres:~~

	~~At commencement~~	~~After rehabilitation~~
~~Height/Depth~~		
~~Length~~		
~~Breadth~~		

~~c) The total volume available for the **disposal of waste** on the site:~~

~~Volume Available~~	~~Mark with "x"~~	~~Source of information (determined by surveyor/estimated~~
~~Up to 99~~		
~~100 – 34 999~~		
~~35 000 – 3,5 million~~		
~~> 3,5 million~~		

~~d) Compacting and covering of the waste body:~~

~~Confirm that the waste body will be covered daily~~	~~Yes~~	~~No~~	~~If no, please explain~~
~~Confirm that that sufficient cover material is available~~		~~No~~	~~If no, please explain~~
~~Give an indication of where the cover material will be sourced and indicate the distance in kilometres/metres from waste disposal facility.~~			
~~Confirm that the waste will be compacted daily~~		~~No~~	~~If no, please explain~~

10. THE RECLAMATION/DIVERSION METHOD AT THE WASTE DISPOSAL FACILITY

10.1 Mark with an "x" the method to be used (reclamation not allowed at the working face of the disposal facility):

At source	
Recycling installation	
No reclamation/diversion planned	
Estimate the planned diversion rate in percentage	

11. FATAL FLAWS FOR THE SITE (ONLY APPLICABLE TO WASTE DISPOSAL FACILITIES):

Indicate which of the following apply to the facility for a waste management activity:

Within a 3000m radius of the end of an airport landing strip	Yes	No
Within the 1 in 50 year flood line of any watercourse	Yes	No
Within an unstable area(fault zone, seismic zone, dolomitic area, sinkholes)	Yes	No
Within the drainage area or within 5 km of water source	Yes	No
Within an area with shallow and/or visible water table	Yes	No
Within an area adjacent to or above an aquifer	Yes	No
Within an area with shallow bedrock and limited available cover material	Yes	No
Within 100 m of the source of surface water	Yes	No
Within 1km from the wetland	Yes	No
Indicate the distance to the boundary of the nearest residential area	..... **metres**	
Indicate the distance to the boundary of the industrial area	..... **metres**	

12. RAINFALL (ONLY APPLICABLE TO WASTE DISPOSAL FACILITIES):

a) Indicate the wettest 6 months of the year:

November – April	
May - October	

For the wettest six month period indicated above, indicate the following for the preceding 30 years

	Total rainfall for 6 months	**Total A-pan evaporation for 6 months**	**Climatic water balance**
For the 1st wettest year			
For the 2nd wettest year			
For the 3rd wettest year			
For the 4th wettest year			
For the 5th wettest year			
For the 6th wettest year			
For the 7th wettest year			
For the 8th wettest year			
For the 9th wettest year			
For the 10th wettest year			

~~13. LOCATION AND DEPTH OF GROUND WATER MONITORING BOREHOLES (ONLY APPLICABLE TO WASTE DISPOSAL FACILITIES):~~

~~Codes of boreholes~~	~~Borehole locality~~	~~Depth (m)~~	~~Latitude~~			~~Longitude~~		
……	……		°	'	''	°	'	''
……	……		°	'	''	°	'	''
……	……		°	'	''	°	'	''
……	……		°	'	''	°	'	''

~~14. LOCATION AND DEPTH OF LANDFILL GAS MONITORING TEST PIT (ONLY APPLICABLE TO WASTE DISPOSAL FACILITIES):~~

~~Codes of boreholes~~	~~Borehole locality~~	~~Latitude~~			~~Longitude~~		
……	……	°	'	''	°	'	''
……	……	°	'	''	°	'	''
……	……	°	'	''	°	'	''

15. EVERY CLOSURE APPLICATION FOR FACILITIES SHOWN IN THE TABLE BELOW MUST AS A MINIMUM BE ACCOMPANIED BY DOCUMENTATION AS INDICATED HEREAFTER:

Requirements	**Recycling &/ recovery Facility**	**Treatment facility**	**Disposal facility**
Design of storm-water management	**X**	**X**	**X**
Design of leachate management			**X**
Design & duration of landfill gas monitoring and management			**X**
Design of settlement/surface pondage			**X**
Design of access roads			**X**
Topographic Map indicating the property	**X**	**X**	
Topographic Map indicating the landfill property boundary, cells (fill areas), wells, and structures within and surrounding the landfill site			**X**
Plan Drawings (including Final Contour Grade Map) indicating (a) the final contours and vegetation in relationship to the surrounding land and any run-off control structures			**X**
Plan Drawings (including Final Contour Grade Map) indicating (b) well location(s), depth to groundwater and flow direction			**X**
Plan Drawings (including Final Contour Grade Map) indicating (c) the locations at which gas monitoring takes place			**X**
Drawings showing the proposed final restored profile for the landfill accompanied by calculations of the remaining tonnages of waste (void space) and materials necessary to close, cap and restore the landfill			**X**
Provision of services that were provided by the facility being closed	**X**	**X**	**X**
Post Closure Site management & Operation	**X**	**X**	**X**
Monitoring Plan	**X**	**X**	**X**
Emergency Preparedness plan	**X**	**X**	**X**
Rehabilitation measures including removal of site structures,	**X**	**X**	**X**
Rehabilitation measures including waste compaction and capping; application of topsoil & vegetation establishment			**X**
Procedures for the inspection or auditing of the rehabilitation process	**X**	**X**	**X**

and mechanisms for reporting to the licensing authority.			
Long and short term stability			X
Procedures and timescales for ensuring final levels are achieved			X

16. INFORMATION NEEDED WHEN APPLYING FOR ACTIVITIES LISTED UNDER CATEGORY A AND B, BUT IS NOT LIMITED THERETO:

The following MUST be included in the application as supporting documentation and the applicant must indicate specific section(s) where they are appended in the reports.

REQUIRED PIECE OF INFORMATION	SECTION IN THE REPORTS WHERE IT CAN BE FOUND	COMMENTS (If any)
1. 1:50 000 topography /topo-cadastral map of the area showing:	Appendix	
1.1 The site and 5km radius	Appendix	
1.2 Existing neighbouring residential and industrial areas	Stakeholder Register	
1.3 Possible future development (indicate the type of development)	Not to the knowledge of the EAP	
1.4 Other waste handling facilities (existing or closed) in the area	None	
1.5 Existing and possible future neighbouring residential areas.	None – farming area	
2. The site plan drawn to scale showing the site"s boundary showing:	Appendix for Feedlot Design	
2.1 Activities or development existing on all 4 directions of the facility.	Appendix	
2.2 Waste receipt, storage and handling areas	Appendix for Feedlot Design	
2.3 Impermeable surfaces	Appendix for Feedlot Design	
2.4 Sealed drainage systems	Appendix for Feedlot Design	
2.5 Drainage system for the facility including sumps and discharge points	Appendix for Feedlot Design	
2.6 Road names and access from all major roads in the area	Location Map	
2.7 Buffersone (waste disposal and composting facilities)	None identified. Closest neighbouring house from evaporation dam 406m.	
3. Security and access aspects of the facility	Private Farm with access control at main entrance gate	
4. Emergency preparedness plan	None	
5. Waste hierarchy implementation plan	Waste cannot be avoided with sheep, however organic matter i.e. manure will be cleared from the kraals and kept in centralised locations within the Feedlot for re-use by the Farmer as soil enhancer on existing fields on the property (minimisation). Effluent runoff will be directed to central evaporation dam to avoid soil/groundwater/freshwater pollution (avoidance).	
6. Operational plan	Cleaning of kraals will be on a regular basis depending on capacity at any one time. Silt in effluent dam will be cleaned out regularly and applied to existing agricultural fields as soil enhancer.	
7. Latest external audit report (only apply for permit/licence amendment)	N/A	
8. Geo-hydrological report (only apply to waste disposal facilities , storage facilities and treatment of waste)	N/A	
7. Description risk assessment	Risk associated with high downpours that increase the runoff effluent volumes. Existing dam capacity however is 75% greater than the maximum anticipated daily rainfall event volumes.	

17. ANY OTHER REQUIREMENTS IN TERMS OF THE WASTE ACT

Please describe how the principles of waste management as set out in section 16 of National Environment Management: Waste Act, 2008 (Act No. 59 of 2008) have been taken into account:

Avoid/Minimize: Prevent waste generation or reduce toxicity and amounts (organic material to be stored and re-used on the farm with evaporation dam that must be lined to avoid potential soil / groundwater / freshwater pollution at ample capacity to accommodate maximum effluent runoff).
  Hierarchical Management: Prioritize re-use, recycling, and recovery (organic matter including manure and silt from the evaporation dam will be re-used on the farm as soil enhancer).
  Safe Disposal: Ensure treatment and disposal are environmentally sound (re-purposing of the existing irrigation dam on the farm is tantamount to safe handling of runoff effluent).
  Prevent Harm: Avoid nuisance (noise, odour) and health/environmental damage (very dry and hot conditions prevail in the Karoo which is ideal for the use of an evaporation dam system. In addition, biofilters such as hay bales can be used at inflow to the evaporation dam to capture solids and reduce organic load in the dam. Furthermore a wide variety of bio-treatments are available for use in evaporation dams to reduce any potential odours to the minimum.
  Prevent Misuse: Stop employees or others from violating the Act (compliance with monitoring and auditing is a legal obligation put on the Applicant for both construction and operational phases).
  Unauthorized Use: Prevent waste from being used for unauthorized (compliance with monitoring and auditing is a legal obligation put on the Applicant for both construction and operational phases).

In this section please describe how any other requirements in terms of the National Environment Management: Waste Act, 2008 (Act No. 59 of 2008), not dealt with above, have been complied with/addressed:

18. COMPETENCE OF THE PERSON/COMPANY THAT WILL HOLD THE WASTE MANAGEMENT LICENCE

It is imperative that the holder of the waste management licence is a fit and proper person in terms of section 59 of the National Environment Management: Waste Act, 2008 (Act No. 59 of 2008). Please disclose the following:

In terms of Sections 48(f) and 59 of the Waste Act, the licensing authority must take into account whether the holder of the waste licence is a "fit and proper" person. To assess the holder's competence to undertake the activity and operate the facility, please disclose the following:

Legal compliance

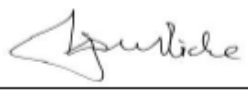
	YES/NO	DETAILS
Has the applicant ever been found guilty or issued with a non compliance notice in terms of any national environmental management legislation?	NO	
Has the applicant's Waste management Licence in terms of the Waste Act, 2008 ever been suspended or revoked?	NO	
Has the applicant ever been issued with a non compliance notice or letter in terms of any South African Law?	NO	

***NB**: Details required above include any information that the applicant wants the Department to take into consideration in determining whether they are a "fit and proper person" and this includes reasons why the offence happened and measures in place to prevent recurrence*

Technical competence

What technical skills are required to undertake the activity and operate the facility?	**AGRICULTURAL, NUTRITIONAL & ANIMAL HEALTH**
How will the applicant ensure and maintain technical competency in the operation of the facility?	**QUALIFIED VETERINARIAN**

Details of applicant's experience and qualification along with that of relevant employees involved with the waste management activity, must be summarised as shown in the table below:

NAME	POSITION	DUTIES AND RESPONSIBILITIES	QUALIFICATIONS AND EXPERIENCE
JDH LE RICHE	OWNER	MANAGEMENT	VETERINARIAN AND FEEDLOT OWNER
AL LE RICHE	CO-OWNER	MANAGEMENT	VETERINARIAN AND FEEDLOT OWNER
			

Please note: Details required above include any information that the applicant wants the Department to take into consideration in determining whether they are a "fit person" and this includes reasons why the offence happened and measures in place to prevent recurrence.

(c) Financial Provisions:

Attach to this annexure a plan of estimated expenditure for the following:

Environmental Monitoring

Provision and replacement of infrastructure (TBC)
Provision for appropriate equipment (TBC)
Closure/decommissioning/rehabilitation and aftercare
Confirmation that adequate funds have been budgeted for the above aspects (TBC)

19. INFORMATION FOR WASTE DISPOSAL FACILITIES

The following aspects MUST be addressed and included in the application documentation for waste disposal facilities and the applicant must indicate specific section(s) where they are appended in the reports.

REQUIRED PIECE OF INFORMATION	SECTION IN THE REPORTS WHERE IT CAN BE FOUND	COMMENTS (If any)
Waste disposal facility designs		
Closure plan (report)		
Closure/Remedial designs		
Landfill conceptual designs (only apply for construction and decommissioning of waste		

~~disposal facilities~~		
~~End-use plan (only apply to waste disposal facility closure)~~		
~~Design for site roads~~		
~~The 1 in 50 year flood-line of all watercourses~~		
~~Laboratory facilities~~		
~~Design and location of fuel storage areas~~		
~~Design and location waste quarantine areas~~		
~~Design and location of waste Inspection areas~~		
~~Site"s drainage system~~		
~~Site"s emergency control system and plan~~		
~~Liner specifications~~		
~~Leak detection system and monitoring~~		
~~Leachate management plan~~		
~~Calculations of leachate generation~~		
~~Leachate collection and treatment~~		
~~Groundwater monitoring~~		
~~Gas management and/or harvesting~~		
~~Air quality monitoring and management~~		
~~Co-disposal ratio calculation~~		
~~Stability monitoring and management~~		
~~Daily and intermediate cover requirements~~		
~~Temporary and permanent capping requirements~~		

DECLARATIONS

TO BE COMPLETED AND SIGNED FOR FINAL SUBMISSION

THE APPLICANT

I ……., in my personal capacity or duly authorised (please circle the applicable option) by …….…… thereto hereby declare that I:

- regard the information contained in this report to be true and correct, and
- am fully aware of my responsibilities in terms of the National Environmental Management Act of 1998 ("NEMA") (Act No. 107 of 1998), the Environmental Impact Assessment Regulations ("EIA Regulations") in terms of NEMA (Government Notice No. R. 543 refers), and the NEM: Waste Act (Act no 59 of 2008), and that failure to comply with these requirements may constitute an offence in terms of the environmental legislation;
- appointed the environmental assessment practitioner as indicated above, which meet all the requirements in terms of regulation 17 of GN No. R. 543, to act as the independent environmental assessment practitioner for this application;
- have provided the environmental assessment practitioner and the competent authority with access to all information at my disposal that is relevant to the application;
- will be responsible for the costs incurred in complying with the environmental legislation including but not limited to –
    - costs incurred in connection with the appointment of the environmental assessment practitioner or any person contracted by the environmental assessment practitioner;
    - costs incurred in respect of the undertaking of any process required in terms of the regulations;
    - costs in respect of any fee prescribed by the Minister or MEC in respect of the regulations;
    - costs in respect of specialist reviews, if the competent authority decides to recover costs; and
    - the provision of security to ensure compliance with the applicable management and mitigation measures;
- am responsible for complying with the conditions that might be attached to any decision(s) issued by the competent authority;
- have the ability to implement the applicable management, mitigation and monitoring measures;

- hereby indemnify, the government of the Republic, the competent authority and all its officers, agents and employees, from any liability arising out of, inter alia, the content of any report, any procedure or any action for which the applicant or environmental assessment practitioner is responsible; and
- am aware that a false declaration is an offence in terms of regulation 71 of GN No. R. 543.

Please Note: If acting in a representative capacity, a certified copy of the resolution or power of attorney must be attached.

Signature of the applicant:

Name of company:

Date:

THE INDEPENDENT ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP)

I …Louise-Mari van Zyl……, as the appointed independent environmental practitioner ("EAP") hereby declare that I:

- act/ed as the independent EAP in this application;
- regard the information contained in this report to be true and correct, and
- do not have and will not have any financial interest in the undertaking of the activity, other than remuneration for work performed in terms of the NEMA, the Environmental Impact Assessment Regulations, 2010 and the NEM: Waste Act (Act no 59 of 2008);
- have and will not have no vested interest in the proposed activity proceeding;
- have disclosed, to the applicant and competent authority, any material information that have or may have the potential to influence the decision of the competent authority or the objectivity of any report, plan or document required in terms of the NEMA, the Environmental Impact Assessment Regulations, 2010 and the NEM: Waste Act (Act no 59 of 2008);
- am fully aware of and meet the responsibilities in terms of NEMA, the Environmental Impact Assessment Regulations, 2010 (specifically in terms of regulation 17 of GN No. R. 543) and the NEM: Waste Act (Act no 59 of 2008), and that failure to comply with these requirements may constitute and result in disqualification;
- have ensured that information containing all relevant facts in respect of the application was distributed or made available to interested and affected parties and the public and that participation by interested and affected parties was facilitated in such a manner that all interested and affected parties were provided with a reasonable opportunity to participate and to provide comments;
- have ensured that the comments of all interested and affected parties were considered, recorded and submitted to the competent authority in respect of the application;
- have kept a register of all interested and affected parties that participated in the public participation process;
- have provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not; and
- am aware that a false declaration is an offence in terms of regulation 71 of GN No. R. 543.

Note: The terms of reference must be attached.

30 April 2026

Signature of the environmental assessment practitioner:

Cape Environmental Assessment Practitioners (Pty) Ltd

Name of company:

Date:

THE INDEPENDENT PERSON WHO COMPILED A SPECIALIST REPORT OR UNDERTOOK A SPECIALIST PROCESS

I ....., as the appointed independent specialist hereby declare that I:

- act/ed as the independent specialist in this application;
- regard the information contained in this report as it relates to my specialist input/study to be true and correct, and
- do not have and will not have any financial interest in the undertaking of the activity, other than remuneration for work performed in terms of the NEMA, the Environmental Impact Assessment Regulations, 2010 and any specific environmental management Act;
- have and will not have no vested interest in the proposed activity proceeding;
- have disclosed, to the applicant, EAP and competent authority, any material information that have or may have the potential to influence the decision of the competent authority or the objectivity of any report, plan or document required in terms of the NEMA, the Environmental Impact Assessment Regulations, 2010 and any specific environmental management Act;
- am fully aware of and meet the responsibilities in terms of NEMA, the Environmental Impact Assessment Regulations, 2010 (specifically in terms of regulation 17 of GN No. R. 543) and any specific environmental management Act, and that failure to comply with these requirements may constitute and result in disqualification;
- have ensured that information containing all relevant facts in respect of the specialist input/study was distributed or made available to interested and affected parties and the public and that participation by interested and affected parties was facilitated in such a manner that all interested and affected parties were provided with a reasonable opportunity to participate and to provide comments on the specialist input/study;
- have ensured that the comments of all interested and affected parties on the specialist input/study were considered, recorded and submitted to the competent authority in respect of the application;
- have ensured that the names of all interested and affected parties that participated in terms of the specialist input/study were recorded in the register of interested and affected parties who participated in the public participation process;
- have provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not; and
- am aware that a false declaration is an offence in terms of regulation 71 of GN No. R. 543.

Note: The terms of reference must be attached.

Signature of the specialist:

Name of company:

Date:

GENERAL WASTE CATEGORISATION

~~Municipal waste~~
~~Commercial and industrial waste~~
~~Brine~~
~~Fly ash and dust from miscellaneous filter sources~~
~~Bottom slag~~
Organic
~~Construction and demolition waste~~
~~Paper~~
~~Glass~~

~~Metal~~
~~Tyres~~
~~Other (specify)~~

~~HAZARDOUS WASTE CATEGORISATION~~

~~Gaseous waste~~
~~Mercury containing waste~~
~~Batteries~~
~~POP Waste~~
~~Pesticide containing waste~~
~~Inorganic chemical waste~~
~~Asbestos containing waste~~
~~Waste oils~~
~~Organic halogenated and/or sulphur containing solvents~~
~~Organic halogenated solids and compounds with sulphur~~
~~Organic solvents without halogens and sulphur~~
~~Other organic waste without halogens and sulphur~~
~~Tarry and bituminous waste~~
~~Brine~~
~~Fly ash and dust from miscellaneous filter sources~~
~~Bottom ash~~
~~Slag~~
~~Mineral waste~~
~~Waste of Electric and Electronic Equipment (WEEE)~~
~~Metal scrap~~
~~Health care risk waste~~
~~Miscellaneous~~