WESTERN CAPE DEPARTMENT OF ENVIRONMENTAL AFFAIRS AND DEVELOPMENT PLANNING



Waste Management License Application Additional Information Annexure

(Application for new facilities, expansion of existing facilities or decommissioning / closure of existing facilities.)

AUGUST 2010

DEPARTMENTAL REFERENCE NUMBER(S)

	22 1.0/1.22m(0)
File reference number (EIA):	
File reference number (Waste):	19/2/5/1/B1/11/WL0116/12
File reference number (Other):	

PROJECT TITLE

Upgrade and expansion of Montagu Cellar Waste Water Treatment Works

Kindly note that:

- 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 2 August 2010. 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.
- 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 <u>for</u> 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 1st Floor Utilitas Building 1 Dorp Street, Cape Town

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

View the Department's website at http://www.capegateway.gov.za/eadp for the latest version of this document.

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

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

Montagu Wine Cellar proposes to upgrade and expand their existing cellar waste water treatment works to establish a waste water treatment works at the wine cellar premises to treat cellar wash water to DWA irrigation standards.

The winery effluent comprises only cellar wash water (excluding sewage and condensate). The system design is based on standard aerobic biological treatment in pre-fabricated steel tanks with internal HDPE liners and comprises the following operational units:

1. Screening (existing infrastructure which will be expanded)

Mechanical screens remove the pips and skins from the cellar wash water (these screened solids will be removed and mixed with bulk grape solids for composting).

2. Lime dosing (existing infrastructure which will be expanded)

Lime is mixed in a concentrate/tank and then continuously dosed into the winery effluent stream; the purpose is to neutralise the effluent prior to biological treatment.

3. Settling (existing infrastructure)

The delta-separator allows for removal of settleable material, consisting mainly of insoluble lime and filter aid material (these settled solids will be removed and mixed with bulk grape solids for composting).

4. Bioreactor (New infrastructure to allow for the expansion of the existing waste water treatment system)

These will be pre-fabricated steel tanks (two tanks) of 360 m3 with internal HDPE liner and fitted with mechanical aeration to provide sufficient dissolved oxygen for biological COD degradation. The hydraulic retention will be 3 days in this unit,

5. Clarifier (New infrastructure to allow for the expansion of the existing waste water treatment system)

A smaller steel tank of approximately 210 m3 providing 2 hours for settling of the microbial biomass that developed in the previous bioreactor. The biomass will be partially returned to the bioreactor and partially removed for co-composting with the bulk grape solids waste.

6. Final treated waste water disposal (New infrastructure to allow for the expansion of the existing waste water treatment system)

The overflow from the clarifier tank will be compliant with DWA irrigation standard (i.e. COD < 400 mg/L) and will be pumped towards the nearby golf course for irrigation use. A pump will be installed next to the proposed WWTW and a 450m long 100mm PVC pipe be laid to the golf course - approximate footprint 450m^2

The existing Montagu Cellar WWTW has a footprint of approximately 300m². The proposed WWTW (including the existing) will have a footprint of approximately 1400m²)

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

Size of facility for a waste management activity	Current – 300m²	Proposed Expansion – 1400m²
Area where the waste management activity takes place	Current – 300m²	Proposed Expansion – 1400m²

In terms of waste disposal and composting facilities: Classification of facility in terms of climatic water balance	The site is classified as B and leachate
Classification of facility in terms of climatic water balance	management will be required in terms of the
	Climatic Water Balance. Please Take Note: This is
	not a landfill site application. The Climatic Water
	Balance is therefore not applicable to this
	application. Any leachate will not leach into the
	ground and will be captured in sealed dams.
In terms of waste disposal facilities: Classification of Facility in	Category A Facility (equivalent to Basic Impact
terms of the type and the quantity of waste received	Assessment (EIA)) General/Organic Waste.

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

Number of corner		Latitude (S):	L	ongitude (E):
1	33°	46'	38.73"	20°	08'	00.49"
2	33°	46'	38.61"	20°	07'	59.75"
3	33°	46'	36.31"	20°	08'	00.54"
4	33°	46'	36.43"	20°	08'	01.26"

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

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

First name and surname:	-		
Company Name (if any):	Montagu Co-operative Wine Cellar Ltd		
Identity and/or Company Registration number:	7305165070083		
Physical address:	Montagu		
Postal address:	PO Box 29		
	Montagu	Postal code:	6720
Telephone:	023 614 1125	Cell:	-
E-mail:	manager@montaguwines.co.za	Fax:	023 614 1793

Environmental Assessment Practitioner (EAP):	Eco Impact Legal Consulting (Pty) Ltd			
Contact person:	Nicolaas Hanekom			
Postal address:	PO Box 45070			
	Claremont	Postal code:	7735	
Telephone:	021 671 1660	Cell:	076 963 6450	
E-mail:	admin@ecoimpact.co.za Fax: 088 021 671 1660			
EAP Qualifications	M.Tech Nature Conservation. Cape Peninsula University of Technology. EMS ISO 14001. North West University Environmental Audit ISO 19011. North West University			
EAP registrations/Associations	SACNASP Pri.Sci.Nat (Ecological Science) 400274/11.			

4. DETAILS OF THE OPERATIONAL TIMES

PERIOD	FROM	UNTIL		
Weekdays	The peak production season of	the wine cellar is between		
Saturdays	January and April. Operational time is normal working ho			
Sunday	but WWTW will operate 24/7.			
Public holidays				

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.

See flow charts below indicating origin of cellar wash waste water to be treated at the WWTW (as taken from the Water Quality Management Report):

FIG. 5 (a) - WATER USE DIAGRAM

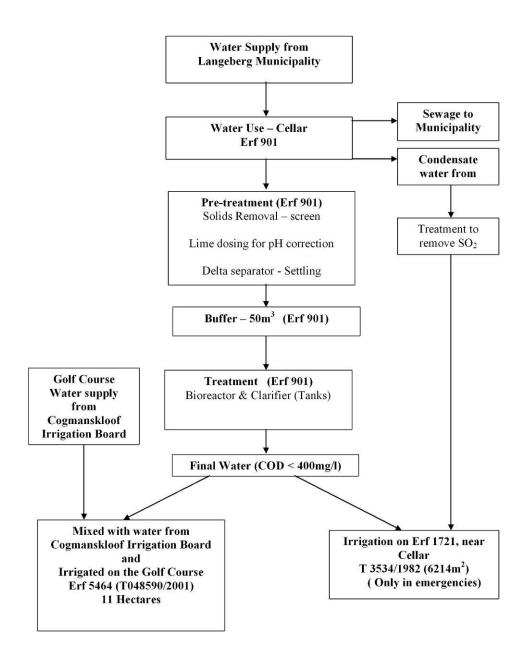


Fig 10 - Water balance diagram of the Winery during the period January - April

Data is based over a period of twenty four hours (Estimated Volumes)

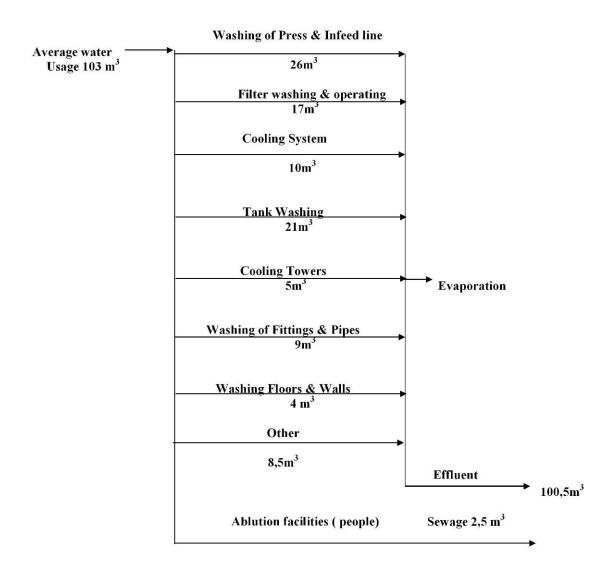
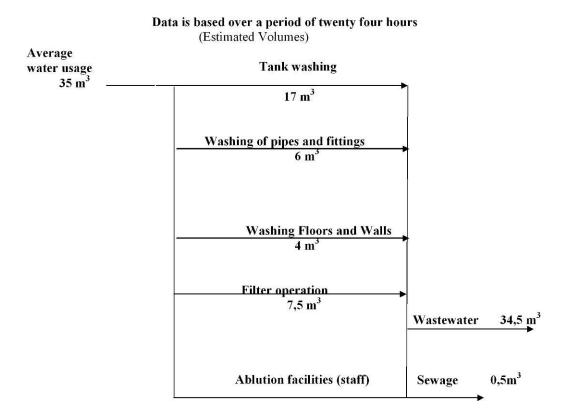
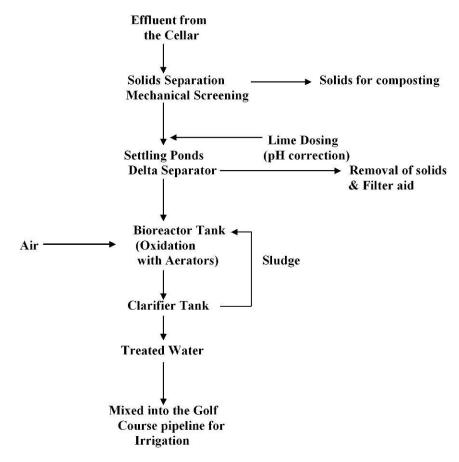


Fig 11 - <u>Water balance diagram of the Winery</u> <u>during the period April - December</u>



MONTAGU WINERY EFFLUENT TREATMENT DESCRIPTION

FIG. 12 - SCHEMATIC DIAGRAM OF WASTEWATER SYSTEM



5.2 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 (m³) or tons (t) and specify units for liquids and gases.

No hazardous emissions will be released into the atmosphere. No noise emissions will be produced.

The origin of the effluent to be produced is wash water(grape processing waste water) from the Montagu Wine Cellar.

Typical chemical analysis of grapes processing wastewater

Parameter	Units	Value
pН		3,1 – 7,2
Chemical Oxygen Demand (COD)	mg/l	588 – 3 000
Total Dissolved Solids (TDS)	mg/l	300 – 550
Suspended Solids	mg/l	200 – 750
Nitrogen	mg/l	28 – 54
Phosphorus	mg/l	0,5 – 2,9
Conductivity	mS/m	74 - 130

Discharge/irrigation quantities expected:

- The main stream is discharged for 250 days per annum.
- There are seasonal discharges.
- Average discharge is 100 m³/day (season) and 45 m³/day out of season
- Maximum discharge is 155 m³/day (season) and 65 m³/day out of season
- Average annual discharge is 18 000 m³
- Maximum annual discharge is 20 000 m³

Table 7: Water intake, Wastewater and Solid Waste produced

Aspect/ Parameter	
Max. Daily Wastewater Produced (m ³)	155 m ³
Ave. Daily Wastewater Produced (m ³) - season	100 m ³
Total Wastewater (m ³)	18 000 m ³ /annum
Total Grape Intake (Tons)	15 078 tons
Wastewater (m ³) produced per liter wine produced	3,01/I wine produced
Solid Waste Produced (Tons) – stems and skins	30% of grape intake (4 500 ton)
Average Daily Water Intake (m ³)	100 m ³
Maximum Daily Water Intake (m ³)	154 m ³

^{*} Estimated

Industry Norm- Water Intake per liters wine produced = 3 - 8 liters

Average COD discharged per ton of raw material = 2,5 kg/t (Industry Norm)

Average Suspended Solids Discharged per ton raw material = 1,25kg/t (Industry Norm)

Solid Waste = 30% (Stems and skins)

Water used to produce a litre of wine = 3.0 litres of water. The industry norm is 3-8 litres/ litre of wine produced.

6. WASTE QUANTITIES

6.1 Indicate or specify types of waste and list the estimated in cubic meters (m³) or tons (t) expected to be managed daily (in cubic meters or tons):

Hazardous waste	Non hazardous waste	Total
N/A	Wash water from wine cellar	January to April = Max 155m³/day May to December = Max 100m³/day

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

Determined from volumes		
If estimation is utilized please describe the	method used):	
N/A		

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 m³)		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 contrac details		
			General waste				
See 6.1 above				Montagu Cellar WWTW (see 5 . Above)	•	treated waste o golf course	
Hazardous waste							
N/A							

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	Depending on the amount of clients.

9. LANDFILL PARAMETERS (ONLY APPLCABLE TO WASTE DISPOSAL FACILITIES)

NOT APPLICABLE

- 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		

	ng and covering of the waste body: te body will be covered daily	Yes No	If no, please explain
Confirm that the was	te body will be covered daily	Yes No	If no please explain
			ii no, piedse expidin
0 " 11 111 1 "		T	T
Confirm that that suff	icient cover material is available	No	If no, please explain
Cive are in dia article of	where the cover material will be sourced and		
	mwaste disposal facility.	indicate the dista	nce in
1410111011001101101101101			
Confirm that the was	te will be compacted daily	No	If no, please explain
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May - October

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

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

NOT APPLICABLE

Codes of	Borehole	Depth	Latitude				Longitude						
boreholes	locality	(m)											
			0		1		11		0		i		"
			0		1		11		0		İ		"
			0		i		11		0		Î		"
			0		ı		11		0		1		"

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

NOT APPLICABLE

Codes of boreholes	Borehole locality	Latitude					Lor	ngitude		
			0		İ	=	0		i	=
			0			11	0		ı	ш
			٥		İ	п	٥		i	ш

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

NOT APPLICABLE

Requirements	Recycling &/ recovery Facility	Storage &/ transfer Facility	Treatment facility	Disposal facility
Design of storm-water management	Х	Х	Х	Х
Design of leachate management				X
Design & duration of landfill gas monitoring and				X
management				
Design of settlement/surface pondage				X
Design of access roads				X
Topographic Map indicating the property	X	Х	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				х
Plan Drawings (including Final Contour Grade Map) indicating (c) the locations at which gas monitoring takes place				Х
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				Х
Provision of services that were provided by the facility being closed	Х	Х	X	х
Post Closure Site management & Operation	Х	Х	X	Х
Monitoring Plan	X	X	X	X
Emergency Preparedness plan	X	X	X	X
Emergency Proparation plan	^	^	^	^
Rehabilitation measures including removal of site structures,	х	Х	Х	Х
Rehabilitation measures including waste compaction and	~			X
capping; application of topsoil & vegetation establishment Procedures for the inspection or auditing of the rehabilitation process and mechanisms for reporting to the licensing authority.	х	х	х	x
Long and short term stability				Х
Procedures and timescales for ensuring final levels are achieved				Х

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:	See Maps attached to this	
map of the area showing.	Annexure	
1.1 The site and 5km radius	44	

	ı	1
1.2 Existing neighbouring residential and industrial areas	11	
1.3 Possible future development (indicate	"	
the type of development)		
1.4 Other waste handling facilities (existing or closed) in the area	44	
1.5 Existing and possible future neighbouring	11	
residential areas.		
2. The site plan drawn to scale showing the	See Maps attached to this	
site's boundary showing:	Annexure	
2.1 Activities or development existing on all 4 directions of the facility.	11	
2.2 Waste receipt, storage and handling areas	11	
2.3 Impermeable surfaces	"	
2.4 Sealed drainage systems	11	
2.5 Drainage system for the facility including	11	
sumps and discharge points		
2.6 Road names and access from all major roads in the area	"	
2.7 Buffersone (waste disposal and		
composting facilities)	"	
Security and access aspects of the facility	EMP (BAR: Appendix H)	The site/facility is located on industrial erf and access is controlled.
4. Emergency preparedness plan	EMP (BAR: Appendix H)	
5. Waste hierarchy implementation plan	EMP (BAR: Appendix H)	
6. Operational plan	EMP (BAR: Appendix H)	
Latest external audit report (only apply for permit/licence amendment)	N/A	
Geo-hydrological report (only apply to waste disposal facilities , storage facilities and treatment of waste)	Water Quality Management Report ("WQMR") (BAR: Appendix G)	
7. Description risk assessment	BAR Section F: Impact	
	Assessment, Management,	
	Mitigation and Monitoring	
	Measures	
	1110030103	

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:

General duty in respect of waste management

- 16. (1) A holder of waste must, within the holder's power, take all reasonable measures to-
 - (a) avoid the generation of waste and where such generation cannot be avoided, to minimise the toxicity and amounts of waste that are generated:
 - (b) reduce, re-use, recycle and recover waste;
 - (c) where waste must be disposed of, ensure that the waste is treated and disposed of in an environmentally sound manner;
 - (d) manage the waste in such a manner that it does not endanger health or the environment or cause a nuisance through noise, odour or visual impacts;
 - (e) prevent any employee or any person under his or her supervision from contravening this Act; and
 - (f) prevent the waste from being used for an unauthorised purpose.

- (2) Any person who sells a product that may be used by the public and that is likely to result in the generation of hazardous waste must take reasonable steps to inform the public of the impact of that waste on health and the environment.
- (3) The measures contemplated in this section may include measures to
 - (a) investigate, assess and evaluate the impact of the waste in question on health and environment;
 - (b) cease, modify or control any act or process causing the pollution, environmental degradation or harm to health;
 - (c) comply with any norm or standard or prescribed management practices;
 - (d) eliminate any source of pollution or environmental degradation; and
 - (e) remedy the effects of the pollution or environmental degradation.
- (4) The Minister or MEC may issue regulations to provide guidance on how to discharge this duty or identify specific requirements that must be given effect to, after following a consultative process in accordance with sections 72 and 73.
- (5) Subsection (4) need not be complied with if the regulation is amended in a non-substantive manner.

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:

Montagu Cellar follows an integrated waste management approach and aims to:

- Avoid the generation of waste or where it cannot be avoided minimise the toxicity and amounts of waste generated;
- Separate waste with the aim of minimising waste and its impacts on the environment and to store the recyclable waste separately from non-recyclable waste;
- Re-use, recycle or recover waste where possible;
- Manage waste so that it does not endanger health or the environment or create a nuisance;
- Maintain suitable cleanliness and hygiene standards on their premises;
- Make use of the waste removal services provided by the Local Authority or its service provider, unless the Local Authority does not provide a waste removal service for the type of waste to be disposed of, in which case the facility makes use of an accredited service provider;
- Comply with the terms and conditions set out by such waste management officer of the local authority for the generation, minimisation, storage, collection, treatment and disposal of waste.
- On demand, prove to the Local Authorities waste management officer that the facility has
 entered into a suitable agreement with an accredited service provider for the collection,
 processing, treatment or disposal of industrial waste at least once per week or as determined by
 the waste management officer.
- Comply with all legislation relating to handling, transfer, storage, use, treatment and transportation of the dangerous goods and dispose of same at a licensed waste disposal facility or landfill site.
- Dispose of contaminated building or other waste where the contamination agent is hazardous
 or dangerous at a licensed waste disposal facility for the treatment and disposal of hazardous
 waste.
- Dispose of hazardous waste generated on the premises at a licenced hazardous waste disposal facility. A person transporting the hazardous waste must ensure that the facility or place to which the hazardous waste is transported is authorised to accept such hazardous waste prior to off-loading the hazardous waste from the vehicle. Necessary proof of all hazardous waste collected on site and disposed to the licensed landfill site must be provided to the facility as part of the facilities document control system to be supplied to the Local Authorities waste management officer upon request.

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

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) Legal compliance:

	Yes / No	Describe
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 licence in terms of the Waste Act 2008 ever been revoked?	No	-
Has the applicant ever been issued with a non compliance notice or letter in terms of any South African Law?	No	-

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.

(b) Technical competence:

What technical skills are required to operate the site?	Knowledge of the proposed WWTW and associated monitoring
How will the applicant ensure and maintain technical competency in the operation of the site?	Dekker Envirotech (WWTW engineers) will provided the necessary training to operational staff and also:
	Written training manuals
	On-the-job training
	Training of back-up personnel
	Audits to ensure competencies
Qualifications of person and relevant employees?	Dekker Envirotech will provide the necessary training to operational staff still to be appointed.
Experience of person and relevant employees? (highlight the persons/employees duties and responsibilities in terms of the experience)	Dekker Envirotech will provide the necessary training to operational staff still to be appointed.

(c) Financial Provisions:

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

Environmental Monitoring	Unknown
Provision and replacement of infrastructure	Unknown
Provision for appropriate equipment	Unknown
Closure/decommissioning/rehabilitation and aftercare	Unknown
Confirmation that adequate funds have been budgeted for the above aspects	See signature of Applicant under Declarations as confirmation that adequate funds are available for the above aspects.

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.

NOT APPLICABLE

REQUIRED PIECE OF INFORMATION	SECTION IN THE REPORTS	COMMENTS (If any)
	WHERE IT CAN BE FOUND	

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

THE APPLICANT

l,	in my personal capacity or duly authorise	ed (please circle the applicable
option) by	thereto hereb	y 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
 - o costs incurred in connection with the appointment of the environmental assessment practitioner or any person contracted by the environmental assessment practitioner;
 - o costs incurred in respect of the undertaking of any process required in terms of the regulations;
 - o costs in respect of any fee prescribed by the Minister or MEC in respect of the regulations;
 - o costs in respect of specialist reviews, if the competent authority decides to recover costs; and
 - o 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, 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.		
Signature of the environmental assessment practitioner:		
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.		
nature of the specialist:		
me of company:		
ate:		

GENERAL WASTE CATEGORISATION

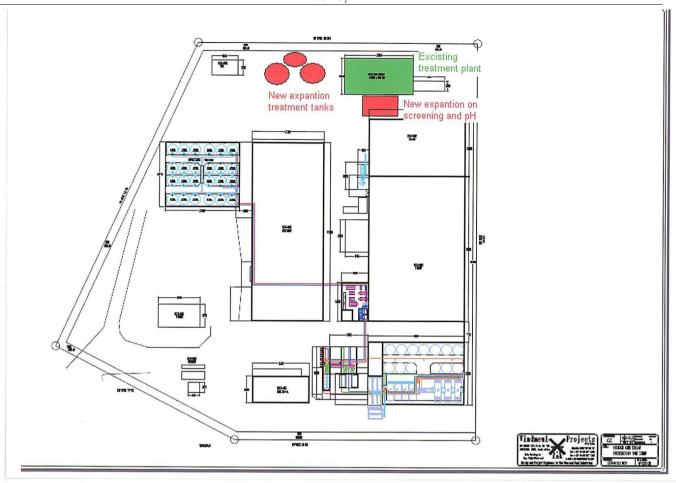
Municipal waste
Commercial and industrial waste
Brine
Fly ash and dust from miscellaneous filter sources
Bottom slag
Organic
Construction and demolition waste
Paper
Glass
Metal
Tyres
Other (specify)

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



Map 1: Montagu Cellar Locality Map



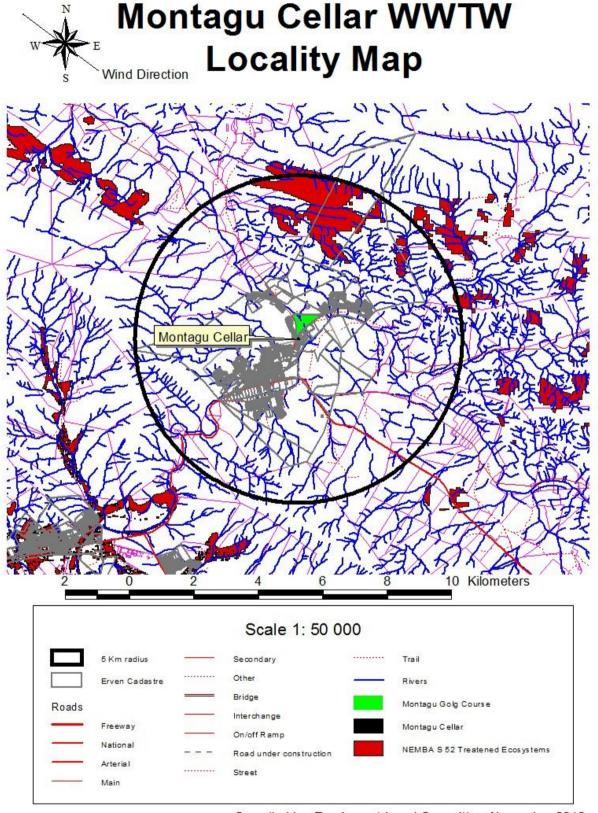




Proposed pipeline from Montagu Cellar WWTW to Golf Course (to connect to current water supply system from Cogmanskloof Irrigation Board).

Maps 2.1-2.3: Layout of proposed WWTW and pipeline to golf course

Map 3: 1: 50 000 Topographical Map



Compiled by: Eco Impact Legal Consulting. November 2012