Appendix 8. Cultural Resources Survey of the proposed Golf Estate

GOLF ESTATE DEVELOPMENT ON ELANDSFONTEIN 440 KR

CULTURAL RESOURCES SURVEY





AFRICAN HERITAGE CONSULTANTS Ω

2001/077745/23

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Aperdix 6. Stimulation of the Local and Regional Economy

Estimated sosio-economic impact on region during pre-construction & construction phese												
	people on site			time c	n site²	local spending ³		local labour⁴	entre de la companya	contract values ⁵		
Sector	nargers	lator	local lakour	residents / visitors	days/ year	nen- chys	R/day/ person	total/year	R/day/ labouer	total/year	aersje/yer	
Professionals & Consultants	1	5	5	hedisheldezzoonenenen oonen en	100	2000	R 50	r 100,000	80	R 40,000	R 1,500,000	
Ontractors & Sib- contractors	10	60	50	OPPOSITE PARTITION AND AND AND AND AND AND AND AND AND AN	\mathfrak{M}	21000	R 20	R 420,000	80	R 1,200,000	R 15,000,000	
Savice providers (I.e local authorities, Telkon, Eskoneto)	5		10	And the state of t		2000	R 30	R 60,000	80	R 80,000	R 3,000,000	
Residents / Visitors	5	10	10	40	100	5500	R 50	R 200,000	80	R 80,000		
Total	35	90	75	40		30500		R 780,000		R 1,400,000	R 19,500,000	
									Phase duration	n years	5	
nde egyptimentelije in de elektricke in de									Total amount of man-days spend on-site	e nandaya	152500	
più distributa									Total amount of local spending	g F	3,900,000	
Total amount spend on local labour										r F	7,000,000	
Total value of contracts											97,500,000	
Total monetary value injected into regional economy											108,400,000	

¹ The average arount of people on site during the estimated number of days per year spent on site
2 Man-days = Number of people x average number of days in the year spend on site
3 Expected expenditure by the sectors in the region
4 Predicted wages paid to local labour
5 Estimated total value of pre-construction and construction contracts

Sub-surface irrigation areas have been sited with great care and contingency measures undertaken to reduce any danger of spillage, by Biolytix in conjunction with PAWC engineers, DWAF and WCNCB personnel.

PERFORMANCE: Each system will provide a high quality filtrate with an average Chemical Oxygen Demand (COD) of less than 40 mg/l and Total Suspended Solids (TSS) of less than 30

OTHER COMPLETED PROJECTS

Longridge Winery
Lamberts Bay Bird Island
Institute for Culinary Arts
De Rus homestead
Spier Packshed
Spier Organic Farm
Spier North Bank

Various houses within the Winelands district Drie Gewels phase 1 Spier Tennis Club Kouga Cuftural Centre Eagle Crag Lodge – Shamwari Yellowwoods lodge

PROJECTS UNDER CONSTRUCTION

Bayeti Lodge Shamwari – various facilities

ADDITIONAL PROJECTS IN DESIGN STAGE

Institute for Culinary Arts upgrade Wedderwill Estate
De Zalze phase 2,3 &4
Pezula Estate
Kommetjie Ecocentre
Jonkershoek

Sassusviei Lodge Gonube Green phase 2 Kwandwe Lodge Katumba Lynedoch Hamlet Hollandsebos Lodge

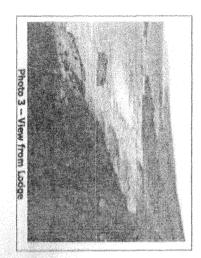
PURPOSE: The facility was originally served by a septic tank and soakaway that blocked and emitted objectionable odours. A Biolytix system was installed at the facility to replace the failing system. Biolytix SA was awarded the contract after a public tender by the Provincial Administration of the Western Cape.

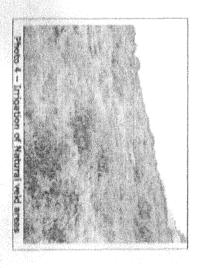
CAPACITY: The system has a treatment capacity of 2000 litres per day

SYSTEM DESCRIPTION:

- All of the wastewater and sewage gravitates down to a single Biolytix filter situated right in complaints from guests. This system has now functioned for over two years without a next to an entertainment deck (The previous septic tank gave off bad odours that resulted
- single complaint.)
 Filtrate is flushed to a subsurface irrigation system by a Biolytix flush valve.
 The irrigation lines are located in undisturbed veld. After a year of continuous operation vegetation around the irrigation line have shown increased growth without evidence of any die-off of sensitive plant species.

irrigation standard and is suitable for sub-surface irrigation. The client is satisfied that the effect on the environment is localized and acceptable. PERFORMANCE: The System will provide a high quality filtrate that compiles to the DWAF





CEDARBERG ALGERIA CAMP SITE

LOCATION: The Algeria Campsite is a long established camp site located on a river in the Cedarberg range, some 30 kilometres from Cammilliam.

awarded to Biolytic SA after a public tender by the Provincial Administration of the Western Cape in observed environmental pollution. This resulted in threats of closure of the campsite by the **PURPOSE:** Sewage from the campsite was treated by septic tanks and soakaways, that resulted Department of Water Affairs. The contract to replace the existing waste treatment system was

CAPACITY: The system has a capacity of 26 kilolitres per day

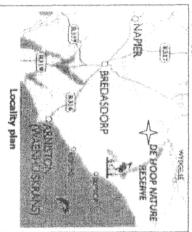
SYSTEM DESCRIPTION:

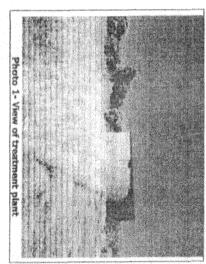
The campsite has a large and a small ablution block, serving 48 campsites

PROJECT NAME DE HOOP NATURE RESERVE - MAIN COMPLEX

Note that Biolytix systems are also installed at the De Hoop Whale trail

Province. LOCATION: The De Hoop Nature Reserve is located on the south coast of the Western Cape





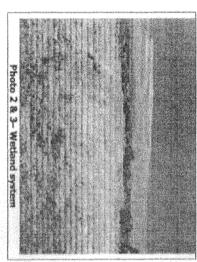
PURPOSE: The Biolytix system at the main complex replaces settlement ponds and septic tanks. The former were not sealed and effluent percolated through the limestone and polluted groundwater. The Biolytix system treats effluent from the main complex houses, challets, administration block and workers houses. Biolytix SA was awarded a joint tendered contract with a civil contractor

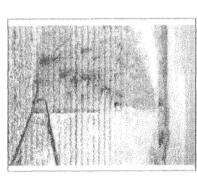
CAPACITY: 37 Kilolities per day

SYSTEM DESCRIPTION:

- Two pumps stations pump macerated sewage to the Biolytix filter. The filter is an above ground structure that resembles a reservoir Distribution to the filter is by means of a rotating arm. Filtrate collects at the base of the filter chamber and is distributed. system which removes nutrients and is distributed to a constructed wetland
- Polished treated filtrate is released into a low-lying section of veld

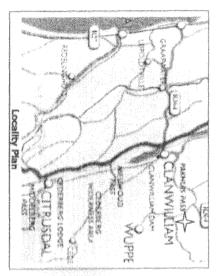
EN ON MINCE The final polished filtrate has a low COD and suspended solids effluent.

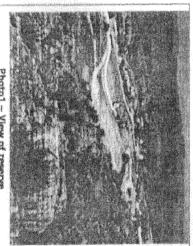




Note that two separate systems have been installed in this nature reserve

LOCATION: The Bushmanskloof nature reserve is located in the Cedarberg, east of Citrusdal.





PURPOSE: The system treats all effluent from the Reserve Lodge

CYXCTY: 22 kilolitres per day

SYSTEM DESCRIPTION:

- A large septic tank has been converted into a pump station into which all sewage
- chamber that is designed to resemble a farm reservoir. gravitates.

 Macerated sewage is then pumped to an above-ground Biolytix filter. This is housed in a
- Treated effluent is stored in another retrofitted septic tank, from which it is pumped to underground irrigation lines serving lawns at the entrance to the lodge.

PERFORMANCE: This is a low maintenance and cost-effective system providing treated effluent well within the DWAF irrigation standard, suitable for sub-surface irrigation



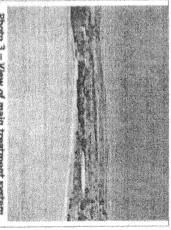


Photo 3 - Yew of main treatment system

- V Final collection is usually in a pump station from which macerated sewage is transferred to the Biolytix treatment plant by a small bore pipe
- Y The treatment plant is fully scaleable and has a small footprint.
- Y Treatment chambers can be buried for minimal visual intrusion
- V Full treatment takes place in the plant, namely primary, secondary and tertiary treatment
- The treated effluent is recycled for beneficia l re-use within the development.

The Biowater System

and controlled wastewater treatment system is required. alternative to bulk sewage infrastructure for small communities where a managed 25 to 2 500 homes). This is a more cost-effective and environmentally sound This system is engineered for small to medium sized communities (in the region of

The main features of a Biowater system are:

- either a new installation or a refitted septic Biolytix pre-treated chambers are installed at each household. This
- V average flows as the on-site Biolytix filter provides buffer storage to collect the treated effluent. The collection system is designed for A low pressure collection system using a small diameter pipe may be used
- V technologies Authority requirements using a combination of Biolytix and third party Further treatment at a central plant is subject to site specific and Local
- Y simultaneously providing for nutrient re-use Beneficial re-use of treated effluent where possible and desirable

form a biologically complex and robust ecosystem. larger decomposer organisms, their predators and prey. Together, these organisms

result is a continuous reduction in particle size until a stable humus matrix is digested and re-digest ed, and eroded by the action of flowing wastewater. The Decomposing solid organic matter, together with fully broken down matter to create a physical and biological filter medium. Solids are continuously

humus matrix The effectiveness of the aerobic system is due to the vast internal surface area of the

The Frenchman Duclaux observed that,

that has had life." quickly than the dogs of Constantinople, or the wild beasts of the desert, the remains of all They are the important, almost the only, agent of universal hygiene; they clear away, oak, of a worm or a whale, the work is exclusively performed by infinitely small organisms "Wherever there is decomposition of organic matter, whether it be the case of a weed or an

"BIO-MIMICRY" - IMITATING A RAIN FOREST

matter on the forest floor multiplicity of organisms work to consume the enormous loading of putrefying organic The inspiration of the Biolytix Filter came from the floor of the Rain Forest, where

encountering a multitude of organisms that play different roles in cleansing the highly biologically active aerated spaces. The filter is akin to a large organic sponge The Biolytix Filter essentially re-creates this forest floor. Organic solid waste and water. These creatures are responsible for the speed of the system and the through. The water travels in a thin film over the immense humus surface area that absorbs and retains the water in its many pores, allowing it to gradually seep wastewater are digested and treated by being gradually filtered through a matrix of

PASSIONATE ABOUT THE ENVIRONMENT Appendix 4. Biolytix Waste Water Treatment systems plus list of Projects

quality ecological wastewater recycling systems available today, with international programme extending from 1990 to 1994. This led to the generation of the highest patent protection The Biolytix technology was developed in Australia during an applied research

Southern Africa pilot Biolytix systems. The success of these pilots was confirmed by independent Africa, has subsequently obtained a licence to utilise the technology throughout tests carried out by the CSIR. The Spier Holdings subsidiary, Biolytix Southern During 1999, the Spier Wine Estate near Stellenbosch built and commissioned two

economic benefits of our technology and the importance of an ecological approach to wastewater treatment and re-use At Biolytix Southern Africa, we are passionate about the environmental and

using ecological technologies Our mission is to become the leading provider of on-site wastewater treatment systems

IN PARTNERSHIP WITH OUR CLIENTS

our clients' At Biolytix we strive to provide a total wastewater treatment service, customised to needs. This one-stop service includes

4 Collaborating with the client on a feasibility, needs and environmental approach for water conservation, the treatment of wastewater and the use assessment to determine the most ecologically sustainable and sensitive

Spotted Dikkop

Spotted Eagle Owl

Steppe Buzzard

Swainson's Francolin

Wahlberg's Eagle

Whitebellied Sunbird

Yellowbilled Hombill

Arrowmarked Babler

Barn Owl

Blackcollard Barbet

Blackeyed Bulbul

Blackheaded Oriole

Blackshouldered Kite

Blacksmith Plover

Blue Waxbill

Brownhooded Kingfisher

Burchell's Coucal

Cape Glossy Starling

Cape Turtle Dove

Chinspot Batis

Common Waxbill

Crested Barbet

Crested Francolin

Crowned Plover

Diederik Cuckoo

Emeraldspotted Dove

European Bee-eater

Familiar Chat

Fantailed Cisticola

Forktailed Drongo

Gabar Goshawk

Goldenbreasted Bunting

Grass Owl

S. pyramidalis Catstall Dropseed

Themeda triandra Rooigras

Trachypogon spicatus Giant Spear Grass

Tragus berteronianus Common Carrot-seed Grass

Trichoneura grandiglumis Small Rolling Grass

Urelyterum agropyroides Tristachya leucothrix Quinine Grass Hairy Trident Grass

Urochloa mosambicensis Bushveld Signal Grass

Thunbergia atriplicifolia

Triumfetta sonderi

Vemonia oligocephala

Zinnia peruviana

GRASSES

Digitaria eriantha Finger Grass	Cynodon dactylon Couch Grass	C. plurinodis Narrow-leaved T	Cymbopogon excavatus Broad-leaved Tu	Chloris virgata Feathered Chloris	Brachiaria serrata Velvet Signal Grass	Bothriochloa insculpta Pinhole Grass	A. schirensis Stab Grass	A. eucomus Snowflake Grass	Andropogon chinensis Hairy Blue Grass	A. stipitata Long-awned Thr	A. scabrivalvis Purple Three-awn	A. mendionalis Giant Three-awn	A. junciformis Ngongoni Three-awn	A. congesta Tassel Three-awn	A. barbicollis Spreading Three-awn	Annual Three-awn
Grass	Grass	Narrow-leaved Turpentine Grass	Broad-leaved Turpentine Grass	red Chloris	Signal Grass	Grass	rass	ake Grass	liue Grass	Long-awned Three-awn	Three-awn	hree-awn	oni Three-awn	Three-awn	ling Three-awn	

Schotia brachypetala Weeping Boer-bean

Strychnos cocculoides Corky Monkey-orange

S.madagascariensis Black Monkey-orange

S. pungens Spine-leaved Monkey-orange

Tarconanthus camphoratus Camphor-bush

Terminalia sericea Silver Cluster-leaf

Tricalysia lanceolata Jackal-coffee

Vangueria infausta Velvet Wild-medlar

V. parvifolia Mountain Wild-medlar

Ximenia Americana Vitex rehmannii Blue Sourplum Pipe-stem Fingerleaf

X. caffra Sourplum

Ziziphus mucronata Buffalo-thorn

Z. zeyheriana Dwarf Buffalo-thorn

FORBS

Scientific Name Common Name

Acrotome hispida

Aponogeton junceus

•

Babiana hypogea

Barleria pretoriensis

Becium obovatum

Bidens pilosa

Boophane disticha

Blackjack

Poison bulb

Callilepis leptophylla

Commiphora mollis C. zeyheri Velvet-leaved Corkwood Large-fruit Bushwillow

C. pyracanthoides Firethorn Corkwood

C. schimperi Glossy-leaved Corkwood

Croton gratissimus Lavender Croton

Cussonia paniculata Mountain Cabbage-tree

Dichrostachys cinerea Sickle-bush

Diospyros lycioides Diplomhychus condylocarpon Horn-pod Tree Bluebush Star-apple

Dombeya rotindifolia Wild-pear

Ehretia rigida Puzzle-bush

Elaeodendron transvaalense Bushveld Saffron

Elephantorrhiza burkei Elephant-root

Englerophytum magalismontanum Stamvrug

Erythrina lysistemon Sacred Coral-tree

Euclea crispa Blue Guarri

Euclea natalensis Hairy Guarri

Euphorbia ingens Naboom

Faurea saligna African Beechwood

Ficus burkei Common Wild Fig

Flueggea virosa Whiteberry-bush

Bushveld Gardenia

Gardenia volkensii

Grewia bicolor White-leaved Raisin

G. flavescens Sandpaper Raisin

G. monticola

Gymnosporia buxifolia Common Spike-thorn

Grey Raisin

from Serapa Lodge and it was established that Mr. Irons is not a direct neighbour of Mr. Clifford (Appendix 10).

entrance gate. except the entrance gate because it is unclear what the concern is about the All the concerns that Mr. Irons had was already addressed in the Scoping Report,

included into the development plan of the proposed Golf Estate (Appendix

Mitigation

the cultural resources survey (Appendix 8). be implemented and abided by. The owners of Mahlapholane none renewable resources. Proper conservation measures will have Lodge should adhere to the recommendations laid down in the report of Cultural resources ਤ ਵੇ form of archaeological and historic sites Game are

Significance

and the risk of destruction is properly managed utilized for educational and tourism purposes if accessibility is controlled The benefit will be highly significant because the resources 000 0

5.7 Provision of Employment Opportunities

people of their own skilled labour (Appendixes 6 & 7). construction phase, although the contractors may have to bring in some The Project will provide work for about 175 permanent staff. Unskilled <u>ග</u> ල most EXOUV ð benefit from opportunities during <u></u>

Significance

should benefit - some directly others indirectly All sectors of the community, particularly those 3 S O <u>Bela</u> area

6. IDENTIFIED ALTERNATIVES

valley form a natural area to build the golf course. to build the Golf Estate. area is geographically the only suitable area that naturally provides all the criteria All alternatives were looked at but none was found to build the Golf Estate. The slopes the areas for the residential houses and the The golf course would not be SEL

Mitigation

estate details the type and position of all the houses to be build The owners of Mahlapholane Game Lodge should develop a plan that on the golf

5.3 Noise Levels

periods especially during the construction of the golf course and building of the residential houses Construction phase noise impacts are likely to De significant for short

Mitigation

level. Based upon the SABS 01031983 code for suburban residential districts construction noise should be undertaken residential with little road traffic, 40 dBa at night is an acceptable background noise Once houses the construction of the S. commenced. golf course and 2 assessment building <u>್</u>ಗ expected of the

Significance

Noise impact is of low significance

5.4 Increased Competition for Resources

by building materials, water supply, etc. increase, local communities can feel threatened by competition for jobs not directly employed by the project) into the region where the project will increased social tension overcrowded and there is increased competition for resources such as resources Any large development tends to attract a secondary population (i.e. those be taken place. outsiders, provision is existing The influx of people can put considerable strain on local accommodation not made for them, informal settlements All these factors can lead to Can become increasingly

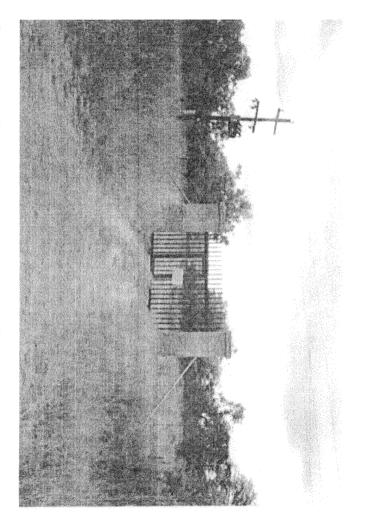


Figure 8. Proposed entrance gate to Golf Estate

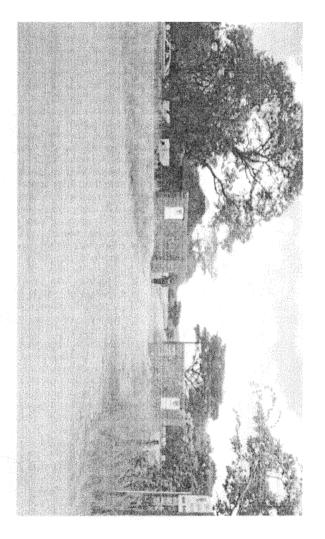


Figure 9. Mabilingwe Gate opposite entrance to proposed Golf Estate

impact will be low because of its low position in the landscape. The views According to the proposed layout of the residential houses, the visual

Mitigation

determine the numbers of species to be kept on this area utilization of the vegetation and a field The number of species must be kept to a minimum to prevent over assessment should be done to

5. SOCIO-ECONOMIC IMPACTS

5.1 Introduction

The potential impacts discussed in this section include:

- Visual impacts;
- Noise levels
- Increased competition for resources from induced migration work-seekers into the area; 0,
- Stimulation of the local and regional economy;
- Provision of employment opportunities

5.2 Visual Impact

be affected by the following: be low. The significance of the visual effect of the residential houses will landscape and the significance of the visual effect of the golf course will The residential houses would significantly alter the visual character of the

- The topographical characteristics of the site (Figures 6 to 10);
- Surrounding land uses:
- Y to 10); Ö The affected parties (i.e. communities/individuals who will be able See residential houses from different vantage points (Figures 6
- The opportunity for mitigation of visual impact

Significance

글 e significance, but will be low if the sealing of the gravel road could be potential impact arising from 50 dust would 00 <u>Q</u>, medium

4.7 Impacts on the Fauna and Flora

4.5.1 Vegetation Loss On-site

species were collected (Appendix 1). According to the vegetation survey done on the proposed golf course site residential houses 0 red data, endangered or vulnerable <u>0</u> 20 20 30 30 30

but will be mowed. The rest of the site will be left in its natural state will be replaced with lawn, but the rough would consist of natural grass unnecessary taken out. The tall grass species and forbs on the fairways and shrubs will form part of the proposed golf course and the stands of The loss of vegetation will be kept to the minimum. Almost all the trees residential houses will placed in such a way that trees would not be

를 다 ® will be of low significance this area. The vegetation impact of constructing a golf course on this site vegetation in the dam will consist of vegetation occurring natural in

Witigation

the water features on the golf course as well alien plants to this region should be planted on the estate and that include discussed with the owners and if possible look for alternatives. developer to stipulate that if trees should be taken out it must be The owners of the proposed development must draw up a contract for the be stipulated in the selling of the residential stands that no exotic or It must

V The the maintenance of the golf course (Appendix 4). breakdown the raw sewage and recycle the water to be used for owners are going to implement a sewage system that will

Significance

Potential impacts arising from domestic waste will be of low significance. will be controlled The storm water run-off will not be significantly impacted, as water quality on site. The significance rating for this impact is

4.5 Impacts on the Ground Water Resources

liters) and he said that it should be more in the line of 70 000 gallons (315 000 because the person who tested the boreholes did not had larger pipes gallons (157 500 liters) per hour and the test was done with half capacity boreholes and the existing dam on the property. per day. To establish an 18 hole golf course it needs ± 1 500 000 liters per hour. The amount of water tested for the four boreholes were 35 000 The water utilized for the Golf Estate is four existing of water

quality of the water were: "besondere goeie water" (Appendix 5). The quality of the four bore holes were tested by the Water Navorsings Laboratorium Dienste SA in Heidelberg, Gauteng. The remarks on the

Mitigation

the raw sewage will be processed that the end result would be where they The owners of the Golf Estate are going to build a sewage system where (Appendix 4) re-use will cut down on the use-age of borehole the recycled water for the maintenance water with of the golf course H 80 %

4.3 Solid Waste Treatment and Disposal

domestic waste from the contractors and later from the residential houses have an environmental impact if not managed safely. During the building phase and operational phase of the golf course and and clubhouse solid waste includes residential houses solid waste will be produced which could potentially excess building material such The main source of as concrete and

Mitigation

site in Bela Bela on a regular basis (Appendix 3). all solid waste would be taken away and disposed at the registered landfill A written agreement was reached with the municipality of Bela Bela

Significance

pollution is considered to be low On the basis of the effective disposal of waste, the potential impact from

4.4 Liquid Effluent Disposal and Treatment

Liquid effluent will be generated from domestic wastes and storm water run-off into the surrounding drainage system and groundwater system

Y small and. Domestic liquid wastes are generated within the office, clubhouse the system does not produce an objectionable odour. This system anaerobic bacteria cannot survive in this oxygenated environment, Biowater System (Appendix 4). The Biolytex filter is a naturally residential houses. and the domestic non-mechanical system that uses no chemicals. The volumes wastewater will be of domestic waste will be disposed via the Since

Secondary or cumulative impacts may arise from the primary impact. local and sub-regional scale in both the short- and long-term future mitigatory actions become more important. The effects will be felt at a Medium significance: The impact will have ω greater effect and

Cumulative and secondary effects would be significant. will be substantial and may be required throughout the life of the project. throughout the sub-region and nation. High significance: The impact is very important. Resources for impact mitigation Effects may be felt

from the golf course and residential houses on the biophysical environment water for the building and maintenance of the golf course, water usage chemical (fertilizers) contamination of ground water, extraction of ground determining the effects of the various outputs (solid - and liquid waste, residential houses and clubhouse on the surrounding area) from building The impacts of this project have been identified and described through residential houses, <u>a</u>. pollution and visual impact of the

3.8 The Proposed Site

specific farm. site where the Golf Course and residential houses could be built on that houses be build and the gentle slopes would serve as the sites for the residential The site can be seen in the aerial photograph in Figure 3. This is the only The site is in a shallow valley where the golf course would

populations vegetation offers a wide diversity of habitats for local bird and animal (spruit) community and a dam community (Figure 4) (Appendix 1). The vegetation on the site includes slope communities, drainage line

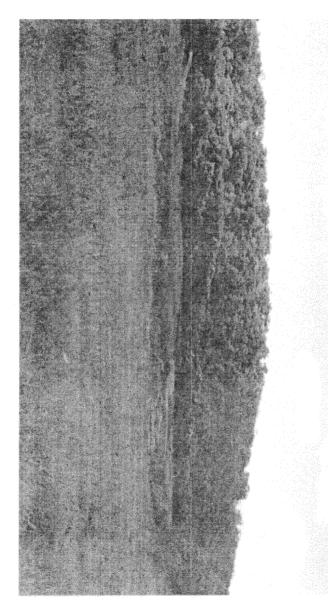


Figure 4. Section of the slope community and dam community.

3. AFFECTED ENVIRONMENT

3.1 Location

road in the Limpopo Province of South Africa. Bela in the Waterberg Mountain Range on the Alma/Cyferfontein gravel Mahlapholane Game Lodge is situated 18 km northwest of the town Bela

3.2 Climate

The low-lying areas temperature for July (the coldest month) 1,8 °C. Frost does occur in the temperature for January (the hottest month) is rainfall area. climate Ω, The average rainfall is 650 mm per annum. Mahlapholane Game Lodge Ö 29,8 °C and the average defined S The average ω summer

3.3 Topography

by altitude that ranges from 1 200 to 1 500m. The substrate is characterized Mahlapholane lies in the rugged and rocky Waterberg Mountains with the quartzite or shale acidic sandy, loamy to gravelly soil derived from sandstone

3.4 Drainage

the Buffelspruit that flows past the town of Bela Bela A small annual stream in the planned development area ζŋ. a tributary of

3.5 Vegetation

open savanna of tall straight African Beechwood Faurea saligna trees in a parameters and aspect plays an important role in the distribution of the bushveld in the rugged parts (Figure 3). Acocks (1985) describes the vegetation of the wiry, sour grassveld in the less Fire and grazing are important rocky parts, Waterberg area a dense, mixed 2

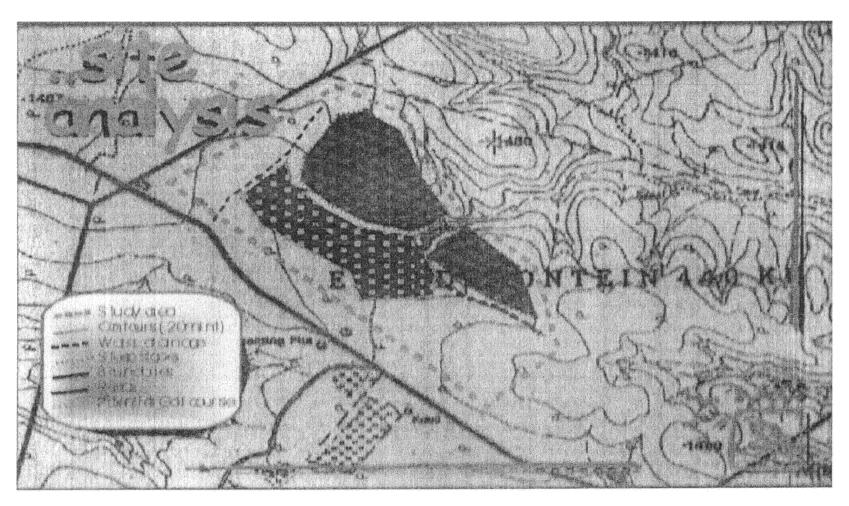


Figure 1. Scanned portion of the Map 2428 CC showing the farm Elandsfontein 440 KR on which the proposed Golf Course and 300 residential houses is to be built.

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Bela Municipal Library. Copies have also been sent to all relevant authorities The Scoping Report will be available for public comment at the following place: Bela

2003. Written comment should be addressed directly to regarding the Scoping reach PVS: Ecological & Environmental Consultants by 30 June All interested and affected parties are kindly requested to ensure that their comments

PVS: Ecological & Environmental Consultants

P.O. Box 927

THABAZIMBI

0380

Tel: (014) 772-2774

Environmental Consultants on (014) 772- 2774 or 082 926 5554. If you require clarification on any technical issue, please contact PVS: Ecological &