

3.8 Hazardous Storage and Disposal

Site Inception

- Material Safety Data Sheets (MSDSs) must be readily available on site for all chemicals and hazardous substances to be used on site. Where possible and available, MSDSs should additionally include information on ecological impacts and measures to minimize negative environmental impacts during accidental releases or escapes.
- Ensure all staff are trained on proper hazardous waste disposal.
- Hazardous storage areas to be hard surfaced and bunded with an impermeable liner to protect groundwater quality and undercover. The Contractor must submit a method statement to this effect to the Engineer for approval.
- Hazardous storage areas must not be located near the drainage lines on site or Wekeweke Stream adjacent to the sites south-west boundary.
- Storage areas containing hazardous substances/materials must be clearly signed.
- The hazardous materials storage area must be fully secured to prevent people and animals from accessing it.

Construction

- Hazardous materials to be stored separately from other materials.
- All hazardous chemicals to be returned to the storage area at the site camp each night.
- Fuel storage areas must be bunded with a catch pit of at least 110% the storage capacity of the fuel storage container. This bund must have a controlled stormwater outlet with a filter. Hazardous material must not be stored on bare soil.
- Concrete waste must be disposed of at an appropriate waste site.
- A separate drum/receptacle should be available for storage of contaminated soil.
- Staff dealing with these materials/substances must be aware of their potential impacts and follow the appropriate safety measures.
- Transport of hazardous materials around the site should be limited, and materials must be transported in sealed bags/containers.
- Mixing/decanting of all chemicals and hazardous substances must take place either on a tray or on an impermeable surface. Waste from these should then be disposed of to a suitable waste site.
- Decanting of any chemical should be done within the confines of a suitably sized drip tray.
- Decanting from large containers (e.g. 210 L drums) must be done using a hand pump.
- Drip trays are to be cleaned out daily and material collected disposed of as hazardous waste.

Post construction

- Hazardous materials that require disposal (cement, paints, solvents, old fuel / oil etc.) must be disposed of to a registered hazardous landfill site. These materials may be removed by an appropriate hazardous waste contractor. Proof of appropriate disposal must be available to the ECO for scrutiny and kept on record.

Operation

- *Not Applicable.*

Key Issues

- **Hazardous materials must always be stored on a hard-surfaced (impermeable), bunded, secure and undercover area.**
- **Hazardous storage area to be located away from the existing drainage lines.**

3.9 Erosion Control & Air Quality Management

Site Inception

- The Contractor must, as an initial and on-going exercise, implement erosion and sedimentation control measures to the satisfaction of the ECO.
- The contractor must ensure that the necessary equipment is in place to control dust generated during construction.

Construction

- Stabilisation of cleared areas to prevent and control erosion and/or sedimentation must be actively managed to the satisfaction of the ECO.
- Erosional features that have been incorporated into the wetland habitat would need to be appropriately stabilised to ensure that no further erosion of the system occurs, especially from water entering the erosion features from the adjacent slopes.
- During construction, the Contractor must protect all areas susceptible to erosion by installing necessary temporary drainage systems as soon as possible and by taking any other measures necessary to prevent stormwater from concentrating in streams and scouring slopes, banks, etc.
- Open trenches must be clearly demarcated during the day and night. This is particularly relevant once installation of the bulk service pipeline commences.
- All earthworks to incorporate sufficient subsurface drainage.
- Vehicles travelling along the access roads must adhere to speed limits to avoid creating excessive dust.
- Dust suppression techniques must be adopted to control dust generated during construction (e.g. keep dusty areas watered, compact stockpiled soil, construct physical barriers, and control traffic on site).
- A complaints register must be maintained on site at all times and be made accessible to the surrounding community (or any affected person(s)) to record complaints regarding odours, emissions and/or excessive levels of dust. An example of a complaints register is included in Appendix 2 of this EMP.
- Vehicles and machinery are to be kept in good working order and to meet manufacturer's specifications for safety, fuel consumption etc.
- No fires are allowed on site.

Post construction

- In areas where construction activities have been completed and where no further disturbance would take place, rehabilitation and re-vegetation should commence as soon as possible.
- Re-vegetation of cleared land must utilize only 100% locally indigenous plant material to ensure no erosion occurs once the site is vacated.
- Any eroded soil on paths / roadways / other areas must be collected and replaced in the area from which it was eroded.

Operation

- Areas that have been rehabilitated must be maintained and monitored to ensure infestation by alien vegetation does not occur.
- Indigenous vegetation utilised in the rehabilitation process must not be used for medicinal purposes.

Key Issues

- **Cleared areas must have erosion control measures implemented.**
- **Any eroded sections must be stabilised.**
- **Controls must be implemented to avoid dust generated during construction.**

3.10 Training and Conduct

Site Inception

- The ECO must ensure that the Engineer and site agents have sufficient understanding of environmental issues to pass this information on to the construction staff.
- The site manager must ensure that all direct and sub-contracted site personnel have a basic level of environmental awareness training and this has been offered to them in English and isiZulu.
- The Engineer / Environmental Control Officer must be on hand to explain more difficult / technical environmental issues and to answer questions at project commencement.
- The need for a “clean site” policy must be explained to construction workers.
- The Environmental Control Officer (ECO) has, ensured that all site staff are informed of the details of the EMP document as well as the conditions of the Environmental Authorization issued by the Department of Agriculture and Environmental Affairs (DAEA).
- Workers must be briefed by the person in charge of managing construction / management activities on the *do's and don'ts* on the site, when workers arrive at site. This must be repeated in weekly toolbox talks.
- Workers are to be briefed about the location and importance of the existing drainage lines, green open space component and 32m buffer zone. Training is to include the conservational significance of the adjacent Wekeweke Stream. Training on the freshwater ecosystems has been included as part of the environmental awareness training schedules attached under Appendix 7.
- No alcohol, drugs, snares, slingshots or animals may be brought onto the property.
- Adequate toilets must be available on site for use by construction staff at all times.
- The digging of pit latrines is not allowed under any circumstances.
- None of the open areas or the surrounding bush may be used as a toilet facility.
- Workers involved with the bulk water pipeline construction are to be aware of where the watercourse crossings are and the potential impact that that the pipeline may have on the watercourse should it not be constructed according to specialists recommendations (included in section 3.15 below).
- Workers involved with the bulk water pipeline construction are to be aware of the location of the two provincially protected plant species and remnant of Sandstone Sourveld, as illustrated in section 3.15).

Construction

- Regular toolbox sessions must be held to ensure that staff are reminded about environmental and safety issues and procedures. Proof of the toolbox talks are to be retained on the site in the environmental file.
- No fires may be made on the property unless prior approval is obtained from the ECO for controlled fires (e.g. braai) within the construction camp.
- Firefighting equipment to be maintained on site and fire teams must be trained accordingly.
- Workers that are under the influence of alcohol or drugs may not work on the site.
- The harvesting of firewood, medicinal plants, tree bark, flowers, sugarcane or other natural materials is forbidden on the site and adjacent properties.
- No workers may sleep on the property unless proper accommodations for this have been established.
- Prior to the commencement of construction, all workers need to know what possible archaeological or historical objects of value may look like, and to notify the site manager if one is found.
- Limit noisy activities to daytime hours after 07:30 and before 17:00 on weekdays.
- During construction of the pipeline and associated reservoir, security personnel are patrol the pipeline route where it runs adjacent to neighbouring properties.

Post construction

- Any damage caused by misconduct must be remedied and rehabilitated.
- Ensure clean up and rehabilitation of areas where any chemical toilet spillage has occurred.

Operation

- All maintenance personnel must be made aware of the operational requirements of this EMPr. It is recommended that maintenance personnel undergo an induction programme regarding the requirements of the EMPr.

Key Issues

- **Workers must be briefed on the requirements of the EMPr.**
 - **Regular toolbox sessions are to be held in order to remind staff about environmental and safety issues. Of particular importance is the location of the drainage lines that are to be avoided as part of the Green Open Space component in the development layout.**
-

3.11 Equipment Maintenance & Vehicle Wash Bay

Site Inception

- Machinery and vehicles must be well maintained but no maintenance work will be carried out on site except in designated bays allocated for such purposes to ensure that no contamination of soil or stormwater occurs through oil spills etc. .
- All machinery servicing areas must be bunded.

Construction

- All vehicles and equipment must be kept in good working order to maximize efficiency and minimise pollution.
- All maintenance, including washing and repairs of plant on site must take place off site or within the designated area.
- Washing of equipment must be conducted offsite where grey water can be collected or disposed.
- The Contractor must ensure that no contamination of soil / vegetation or stormwater occurs.
- Drip trays must be used to collect used oil, lubricants, etc. during minor maintenance.
- Drip trays must be provided for all stationary plant.

Post construction

- Used oil, lubricants, cleaning materials, etc. to be disposed of at a DWA approved hazardous waste site, safe disposal certificates to be obtained.
- No vehicles, which have transported concrete or other hazardous substances must be washed on site unless at a designated wash bay with grease traps.

Operation

- *Not Applicable.*

Key Issues

- **Drip trays must be provided for all stationary plant.**
 - **Washing of machines and equipment must be conducted offsite.**
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3.12 Occupational Health & Safety and Emergency Response

Site Inception

- All construction staff must be provided with relevant Personal Protective Equipment (PPE).
- All construction staff must be made aware of emergency phone numbers to use in the case of an emergency.
- All staff must be trained on how to react in the case of an emergency.
- An emergency response team must be set up to manage emergencies.

Construction

- The necessary PPE must be worn.
- Fire fighting equipment to be installed and fire teams must be trained accordingly.
- Material stockpiles must be stable and well secured to avoid collapse and possible injury to workers.
- Staff handling hazardous substances/materials must be aware of their potential impacts and follow appropriate safety measures.
- Workers are not permitted to work in any excavation deeper than 1.2 m unless appropriated battered back or shored for safety reasons.
- Keep clearly marked absorbent material on site to contain spills if they occur.
- If a spill occurs, stop the source, contain it, clean up in accordance with MSDSs and notify relevant authorities.
- Any excavation sites must be clearly marked and appropriately fenced to ensure unauthorized personnel cannot gain access to the site.

Post construction

- Staff handling hazardous substances/materials must be aware of their potential impacts and follow appropriate safety measures.

Operation

- Emergency procedures should be in place to manage pump station failures and spills/leaks with immediate effect to prevent any spills into the freshwater ecosystem.

Key Issues

- **Emergency phone numbers and responsible persons must be indicated.**
 - **The necessary PPE must be worn.**
-

3.13 Traffic, Access, Road Upgrades, Equipment and Vehicles on Site

Site Inception

- Access routes to the construction site must follow existing access roads as far as possible. Should new access roads be required, these must be constructed in a way to minimize concentrated flow runoff and pollution to the existing drainage lines.
- Access points must be agreed by the engineer and ECO prior to commencement of construction.
- Construction signage must be erected along Kassier Road and J.B. McIntosh Drive prior to construction activities.
- Construction signage indicating speed limits must be erected on the road verge.
- Machinery and vehicles will be well maintained and no maintenance work can be carried out on site except in a designated bay allocated for such purposes to ensure that no contamination of soil or stormwater occurs through oil spills etc.

Construction

- Vehicles travelling along the access roads must adhere to speed limits ensure the safety of the surrounding businesses and residents.
- Machinery and vehicles must be maintained in good working order to maximize efficiency and minimise pollution.
- No ad hoc haulage roads or turning areas may be created.
- Construction vehicles must not be permitted to park for extended periods of time on the roads or on road verges where they can block the roads and access to the site.
- Vehicle entry point must be limited to the designated area and the contractor must ensure that no other entry point is used.
- The Traffic Department to be alerted if road closure is required.

Post construction

- All temporary signage must be removed on completion of construction.
- All existing access roads to and from the construction site must be cleared.

Operation

- *Not Applicable.*

Key Issues

- **Emergency phone numbers and responsible persons must be indicated.**
- **Notices are to be erected informing the public when the road upgrades will take place.**

3.14 Freshwater Ecosystem Protection & Rehabilitation

Site Inception

- The rehabilitation work as proposed Wetland Rehabilitation Plan (attached under Appendix 9) is to be carried out when the area is driest and preferably prior to construction to allow the rehabilitated areas an opportunity to stabilise.
- The planning of the rehabilitation interventions was carried out in conjunction with a wetland specialist.
- The two wetland ecosystems existing on the site as well as the Wekeweke Stream adjacent to the site are to be demarcated prior to construction commencing (see Figure 6). The wetland crossings associated with the bulk water and sewer pipelines are included in Figure 2.
- The existing agricultural road network is to be deactivated within the wetland systems and their buffer zones, reducing impacts of altered flows through and into the systems.
- Rehabilitation should make use of machinery to carry out the required earthworks to ensure that rehabilitation is implemented quickly minimising the amount of time that the wetland soil is exposed.
- Where possible, alien invasive plants within the buffer zones and wetland systems are to be pulled out by hand or suitable mechanical means.
- Larger (taller than 1.2m) plants are to be cut off at ground level and the stump treated with a suitable selective herbicide. The brush will be removed to the local municipal refuse site.
- Where possible the use of herbicide in the freshwater ecosystems must be avoided but re-growth would need to be sprayed. A selective herbicide which does not kill grass but is effective on alien invasive shrub/tree species should be used.
- The interventions listed on page 27 of the Wetland Rehabilitation Plan are to be constructed (i.e. the structural interventions promoting diffuse flow across the wetland system, gabion cut-off walls or concrete weirs etc.). Proposed intervention details are included in Appendix 2 of the Rehabilitation Plan attached.
- The placement of biodegradable stabilizer fabric, in this instance 'Bio-jute', to protect the soil surface is to be used in those systems and buffer areas with steep topography, reducing the risk of surface soil erosion.
- Where practical, the existing wetland vegetation will be removed in sods and replanted as soon as possible.
- The outflow from the wetland system into the riparian habitats is to be via concrete/gabion drop-inlet structures ensuring safe entry of water into the downstream, systems.
- The re-vegetation of the wetland systems to make use of local indigenous wetland plants and grass seed mixtures, to encourage the establishment of vegetation from seeds.
- Indigenous tree species are to be used to re-vegetate the riparian habitat including the incorporation of KwaZulu-Natal Sandstone Sourveld plant species, ensuring a multi-layered, undisturbed vegetative community.
- A 10m buffer is to be demarcated around the "extended wetland area" shown in blue in Figure 5 where no construction-related impacts are to occur.

Construction

- Workers are to be educated and briefed on the location of the Wekeweke Stream and wetland tributaries within the site so that these areas are not disturbed (e.g. no stockpiling or dumping to take place).
- Pipe bridges are to be used during construction of the pipelines associated with the bulk water and sewer supply where minor valleys or streams are traversed.
- The sewer pump station (26m x 26m) must be constructed on contour and a designated bund area must be constructed below or directly adjacent to the sewer pump station to capture accidental spills/leaks. The pump station should include a backup generator and emergency procedures should be in place to manage pump station failures and spills/leaks with immediate effect.

- No dumping of construction rubble or spoil is to occur in completed stormwater drains, pipes, channels or natural drainage lines (existing wetland, stream and riparian zone).
- During construction, any frog species found on site are to be reported to the EO on site and relocated to the closest demarcated wetland.

Post construction

- The 32m buffer zone from the riparian vegetation is to be vegetated with indigenous plants to form a dense undisturbed vegetative community.

Operation

- The alien invasive plant species within the riparian habitat, including buffer zones and the wetland habitat are to be cleared and follow-up operations are to be put in place to maintain these areas.
- Three follow-up alien invasive plant clearing operations are to be carried out once rehabilitation has been complete, to assist in reducing alien invasive plant densities to maintenance levels.
- The maintenance of the alien invasive plant species must be carried out indefinitely, ensuring the functionality and integrity of the systems are maintained at a desired level. Four operations are to be undertaken per year and usually carried out before the onset of the summer rain.
- The defoliation of the wetland areas to be integrated into the overall maintenance plan, including the adjacent buffer zones. The interval for defoliation of the wetland areas should be every 2 to 3 years. The wetland area should be divided into two blocks, with each half being cleared alternately, leaving remnant habitat in the area for wetland dependant species.
- Following the completion of the works and the handover of the development, it is the responsibility of the constituted Home Owners Association (or designated maintenance body) to maintain the stormwater system in a safe and responsible manner.

Key Issues

- **The site specific Wetland Rehabilitation Plan attached under Appendix 9 is to be adhered to and carried out in conjunction with a wetland specialist.**

3.15 Bulk Water Pipeline

Site Inception

- Prior to Contractors constructing the water pipeline across the uMhlatuzana River, indicated in Figure 9, a Method Statement is to be submitted to the Engineer and ECO to ensure that trenching across this system occurs rapidly to reduce any potential impacts.
- Method Statements are to be submitted to the Engineer and ECO detailing the proposed construction method where the pipeline crosses freshwater ecosystems or buffer prior to work commencing. The Method Statement is to include stockpiling techniques and waste management to ensure sedimentation or pollution (including building materials) do not enter the watercourse.
- The watercourse crossings, as indicated in Figure 9, are to be excavated during a dry period (i.e. in the winter months).
- For the wetland crossings, it would be preferable if the alignment was within road reserves or downstream of the road crossings where possible, to minimise the risks of headward erosion and align the impacts of the pipeline with portions of the wetland habitat deactivated by road crossings.
- Should the two provincially protected plant species (*Scadoxus puniceus* and *Eulophia streptopetala*) be required to be up-liftment and relocation a permit from EKZN Wildlife is required. The location of the species is shown in Figure 10 with photographic examples shown in Figures 7 and 8.
- The reservoir is to be located as far underground as practically possible.

Construction

- Freshwater ecosystems are to be crossed perpendicular to the direction of flow to ensure that the flow patterns are not altered or diverted potentially resulting in erosion.
- On steep slopes draining towards the freshwater ecosystem, small diversion berms are to be constructed on the surface of the pipeline alignment to reduce the risk of the pipeline becoming a preferred surface path leading to erosion.
- “Trench-breakers” (in-trench barriers), to be installed along the length of the pipeline to minimise the interception and accumulation of water from the adjacent hillslope within the infilled trench.
- When a watercourse crossing is encountered, the top 50cm of the wetland/riparian topsoil is to be removed and stockpile. This must be replaced once activities have been completed ensuring the maintenance of the existing seed bed and soil profiles as best as possible.
- Soil excavated from the trench is to be placed on the upslope side of the trench, minimizing the risk of excess sediment entering the downstream areas of the freshwater ecosystems.
- Vehicles accessing the pipeline route, are to utilise existing roads where possible.
- The working servitude across the systems must be as narrow as practically possible. i.e. machinery must utilise the same route through the systems at all times so as to avoid unnecessary disturbance.
- No pollution, soil from stockpiles or building materials are to be stored within or adjacent to the watercourses. No cement mixing is to take place within the watercourse unless the mixing is carried out on an impermeable barrier. If a spill does occur, the affected area is to be rehabilitated to the satisfaction of the ECO.
- Should a *Bradypodion melanocephalum* (Black-headed Dwarf Chameleon; Figure 11) specimen be found during construction, the specie needs to be removed carefully before construction continues. The specie needs to be relocated to an identified release site. The release site should be identified in consultation with Ezemvelo KZN Wildlife and eThekweni Environmental Management Division.
- The pipeline and associated working servitude are to maintained within the applicant’s property(s) to reduce any impact on the vegetation on the other side of any fence lines.
- The disturbed area is to avoid the removal of indigenous trees as far as reasonably possible.
- Trees and shrubs are to be incorporated into the final reservoir design as far as practically possible to reduce the visual impact associated with reservoir walls.

Post construction

- The watercourse crossings are to be rehabilitated to ensure that no barriers exist within the stream so that the in-stream habitat is similar to the natural situation. This should be done as soon as possible after the pipeline construction activities have ceased, to the ECO's satisfaction.
- The pipeline alignment is to be rehabilitated, with the wetland and riparian habitat at the crossing points being restored to near-natural conditions. In addition, areas where disturbance adjacent to these ecosystems has occurred should also be rehabilitated. This should be done as soon as possible after the pipeline construction activities have ceased, to the ECO's satisfaction.
- In riparian areas, backfilling should occur as soon as possible, compact if possible and reshape river to original levels.
- An alien management plan must be in place to ensure that the disturbed area is maintained free of alien plant species.
- Disturbed areas to be rehabilitated with a standard NPA mix of grass species.

Operation

- The applicant is to ensure that the alien management plan is being carried out ensuring that the disturbed area is maintained free of alien plant species.

Key Issues

- **Contractors working on the pipeline are to be aware of the location of the where the pipeline crosses sections of freshwater, the location of the two provincially protected plants and the remnant of Sandstone Sourveld (as shown in Figures 7 – 11).**
- **Method Statements to be submitted prior to the pipeline crossing any freshwater systems.**
- **The disturbed area is to be rehabilitated with a mix of grass species prior to construction.**



Figure 7: Photograph of a provincially protected *Eulophia streptopetala* (source: SiVest, October 2013)



Figure 8: Photograph of *Scadoxus puniceus* (Paintbrush Lily; source: www.witkoppenwildflower.co.za)

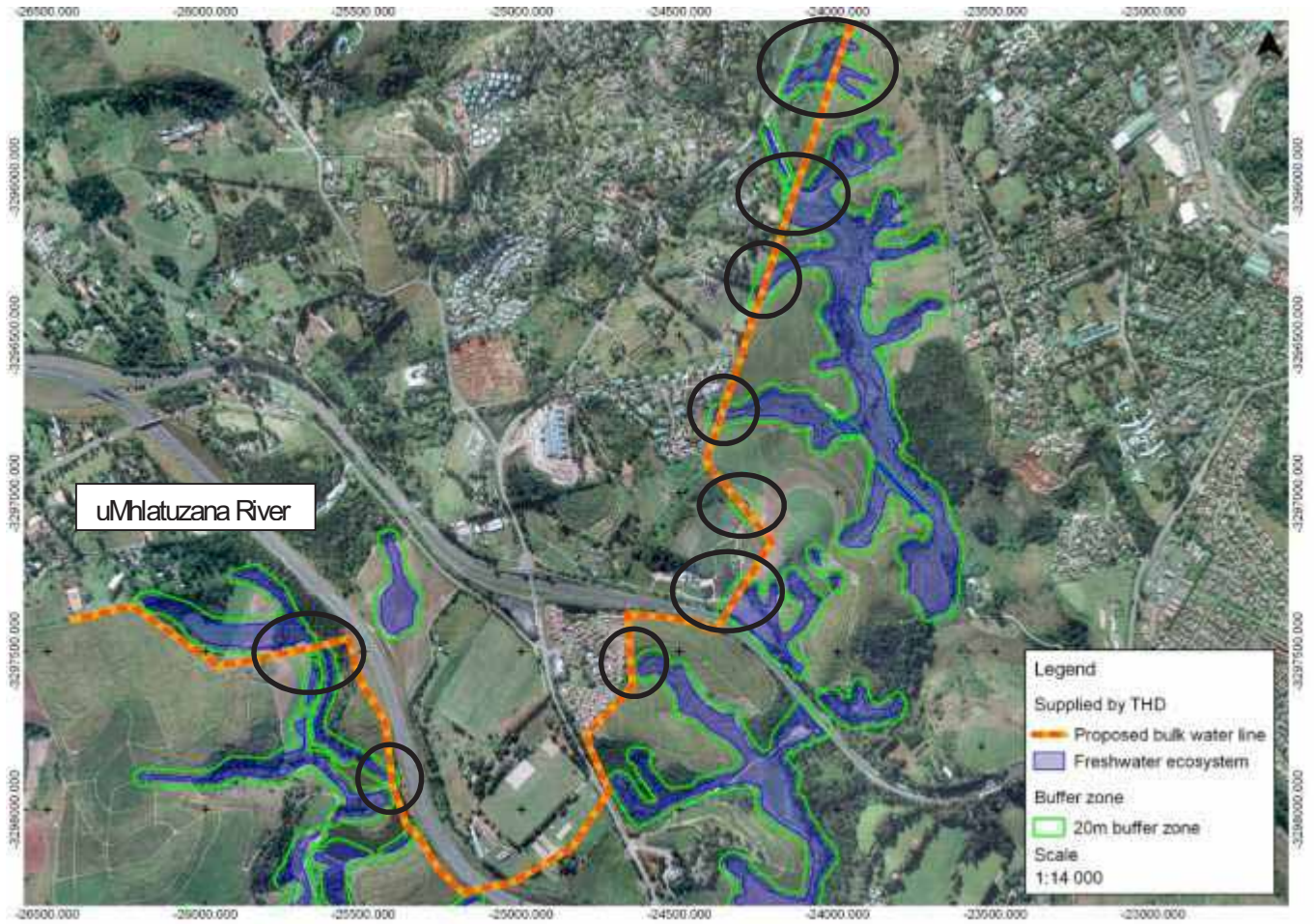


Figure 9: Aerial photograph illustrating the delineated watercourses. The wetland crossings have been circled in black (source: GroundTruth, October 2013).

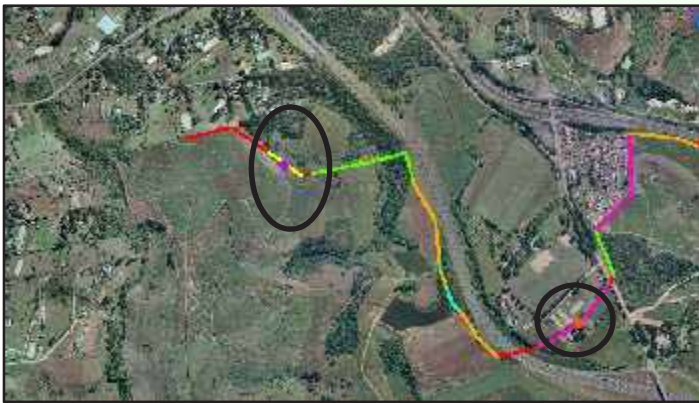


Figure 10: Sensitive vegetation circled in black. The remnant of Sandstone Sourveld is indicated in yellow (source: SiVest, October 2013).



Figure 11: Photograph of *Bradypodion melanocephalum* (Black-headed Dwarf Chameleon; source: www.biodiversityexplorer.org).

3.16 Decommissioning

A detailed decommissioning plan must be submitted to DAEA for approval at least 30 days prior to the decommissioning of the proposed development. The plan must address the following:

- Air quality
- Soil erosion
- Waste management
- Waste water management
- Stormwater management
- Worker conduct
- Dust
- Landscaping, re-vegetation, stabilisation and rehabilitation
- Land contamination
- Complaints register

Prior to decommissioning the surrounding community must be notified.

Decommissioning must take place only during working hours.

All solid waste and rubble must be disposed of at an approved landfill site. No waste is allowed to contaminate the Wekeweke Stream.

Any wash water must be treated as contaminated and is not permitted to enter stormwater drains and run-off into the Wekeweke Stream.

Rehabilitation measures must be put into place.

All structures, foundations, concrete and tarred areas are demolished. Rubble must be removed by an approved contractor and taken to a licensed landfill site. Waste recycling must be encouraged.

A long-term monitoring system must be in place to ensure total rehabilitation of the site following decommissioning.

APPENDICES

APPENDIX 1: LETTER OF ACCEPTANCE OF EMPR

(To be printed on appropriate letter head)

RE: Construction of the Tongaat Hulett Developments Shongweni Retail / Mixed Use Development within the eThekweni Municipality.

To whom it may concern

This is to state that the undersigned have received a copy of the Environmental Management Programme (EMPr) developed for this site by *Kerry Seppings Environmental Management Specialists (KSEMS)* dated October 2013. The undersigned do hereby agree to abide by the strictures of the Environmental Management Programme (EMPr). Any contravention of the EMPr will be recorded and corrective action will be carried out.

Any changes to the EMPr must be approved by the *Environmental Control Officer (ECO)*, the consultant *Kerry Seppings Environmental Management Specialists (KSEMS)* and the relevant authority. Such changes are to be made in writing and a record must be maintained.

As Agreed on this day _____ of _____ (Month) _____ (Year)

Environmental Control Officer (ECO)

Name _____

Signed _____

Contractor

Name _____

Company _____

Signed _____

Engineer

Name _____

Company _____

Signed _____

APPENDIX 2: COMPLAINTS REGISTER

This a register for recording all complaints received from neighbours i.e. Complaints about noise, odours, dust etc.

Date of complaint	Complainant's name	Contact Details (phone)	Nature of complaint	Corrective action taken	Date action completed

APPENDIX 3: NON-CONFORMANCE RECORD

This is record of non-compliances with the EMP i.e. any action taken that is in violation of the EMP must be recorded e.g. mixing concrete directly on soil, site staff using neighbouring properties as toilet facilities, dumping of material over fence etc.

Date of Non-conformance	Details of non-conformance	Party / ies responsible	Corrective action taken	Date action completed

APPENDIX 4: BASIC EMERGENCY RESPONSE PLAN

1. AIM

- 1) The effective response to emergency incidents.
- 2) The control of emergency incidents.
- 3) Recording incidents and ensuring that where possible, all measures are taken to prevent them from re-occurring

2. DEFINITION OF AN “INCIDENT”

As defined by NEMA, section 30 “Control of emergency incidents”

(1) *In this section—*

- (a) *“incident” means an unexpected sudden occurrence, including a major emission, fire or explosion leading to serious danger to the public or potentially serious pollution of or detriment to the environment, whether immediate or delayed;*
- (b) *“responsible person” includes any person who—*
 - (i) *is responsible for the incident;*
 - (ii) *owns any hazardous substance involved in the incident; or*
 - (iii) *was in control of any hazardous substance involved in the incident at the time of the incident;*
- (c) *“relevant authority” means—*
 - (i) *a municipality with jurisdiction over the area in which an incident occurs;*
 - (ii) *a provincial head of department or any other provincial official designated for that purpose by the MEC in a province in which an incident occurs;*
 - (iii) *the Director General;*
 - (iv) *any other Director General of a national department.*

As defined by the National Water Act section 20 “Control of emergency incidents”

(1) *In this section “incident” includes any incident or accident in which a substance -*

- (a) *pollutes or has the potential to pollute a water resource; or*
- (b) *has, or is likely to have, a detrimental effect on a water resource.*

Definition of an Incident on Site

Spills, contamination of soil and or stormwater, fires, explosions.

3 CONTENTS OF REPORT TO AUTHORITIES

As taken from NEMA, Section 30 :Control of Emergency Incidents”

(3) *The responsible person or, where the incident occurred in the course of that person’s employment, his or her employer must forthwith after knowledge of the incident, report through the most effective means reasonably available—*

- (a) *the nature of the incident;*
- (b) *any risks posed by the incident to public health, safety and property;*
- (c) *the toxicity of substances or byproducts released by the incident; and*
- (d) *any steps that should be taken in order to avoid or minimise the effects of the incident on public health and the environment to—*
 - (i) *the Director General;*
 - (ii) *the South African Police Services and the relevant fire prevention service;*
 - (iii) *the relevant provincial head of department or municipality; and*
 - (iv) *all persons whose health may be affected by the incident.*

(4) *The responsible person or, where the incident occurred in the course of that person’s employment, his or her employer, must, as soon as reasonably practicable after knowledge of the incident—*

- (a) *take all reasonable measures to contain and minimise the effects of the incident, including its effects on the environment and any risks posed by the incident to the health, safety and property of persons;*
- (b) *undertake cleanup procedures;*
- (c) *remedy the effects of the incident;*

- (d) assess the immediate and longterm effects of the incident on the environment and public health.
- (5) The responsible person or, where the incident occurred in the course of that person’s employment, his or her employer, must, within 14 days of the incident, report to the DirectorGeneral, provincial head of department and municipality such information as is available to enable an initial evaluation of the incident, including—
- (a) the nature of the incident;
 - (b) the substances involved and an estimation of the quantity released and their possible acute effect on persons and the environment and data needed to assess these effects;
 - (c) initial measures taken to minimise impacts;
 - (d) causes of the incident, whether direct or indirect, including equipment, technology, system, or management failure; and
 - (e) measures taken and to be taken to avoid a recurrence of such incident.
- (6) A relevant authority may direct the responsible person to undertake specific measures within a specific time to fulfil his or her obligations under subsections (4) and (5): Provided that the relevant authority must, when considering any such measure or time period, have regard to the following:
- (a) the principles set out in section 2;
 - (b) the severity of any impact on the environment as a result of the incident and the costs of the measures being considered;
 - (c) any measures already taken or proposed by the person on whom measures are to be imposed, if applicable;
 - (d) the desirability of the State fulfilling its role as custodian holding the environment in public trust for the people;
 - (e) any other relevant factors.
- (7) A verbal directive must be confirmed in writing at the earliest opportunity, which must be within seven days.
- (8) Should—
- (a) the responsible person fail to comply, or inadequately comply with a directive under subsection (6);
 - (b) there be uncertainty as to who the responsible person is; or
 - (c) there be an immediate risk of serious danger to the public or potentially serious detriment to the environment, a relevant authority may take the measures it considers necessary to—
 - (i) contain and minimise the effects of the incident;
 - (ii) undertake cleanup procedures; and
 - (iii) remedy the effects of the incident.

As taken from the National Water Act section 20 “Control of emergency incidents”

- (2) In this section, “responsible person” includes any person who -
- (a) is responsible for the incident;
 - (b) owns the substance involved in the incident; or
 - (c) was in control of the substance involved in the incident at the time of the incident.
- (3) The responsible person, any other person involved in the incident or any other person with knowledge of the incident must, as soon as reasonably practicable after obtaining knowledge of the incident, report to -
- (a) the Department;
 - (b) the South African Police Service or the relevant fire department; or
 - (c) the relevant catchment management agency.
- (4) A responsible person must -
- (a) take all reasonable measures to contain and minimise the effects of the incident;
 - (b) undertake clean-up procedures;
 - (c) remedy the effects of the incident; and
 - (d) take such measures as the catchment management agency may either verbally or in writing direct within the time specified by such institution.

The following emergency procedures are guidelines only and should be used in conjunction with the emergency response plan provide by the contractor.

4. ON SITE EMERGENCY PROCEDURES

4.1 SPILL RESPONSE

4.1.1 RESPONSIBLE PERSON/S

- The spill is reported to the Foreman who must report to his superior who must report to the ECO.
- All employees should be made aware of the procedure in case of a spill.
- The ECO must report to relevant authorities if contamination occurs and if spill falls within the definition of a spill

4.1.2 PROCEDURE

- Identify nature and size of spill e.g. oil 20L. Consult MSDS for safety precautions
- Protect exposed stormwater drains, prevent entry of substance to stormwater drains and drainage line.
- For a small spill (less than a litre, locate spill kit, contain spill according to the training from the spill kit suppliers
- For large spill (unable to deal with on site), contact external spill control contractors
- Determine appropriate method for disposal of material based on information provided in MSDS
- Determine if any contamination has occurred i.e. entry to stormwater, soil contamination
- If contamination has occurred, consult with authorities on need for on-going monitoring and or rehabilitation requirements. Determine medium and long term effects. Stormwater incidents should be reported to waste water
- If no contamination has occurred, determine if spill falls under definition of an “incident” and if so, report to relevant authorities.
- Record in Incidents register
 - o Nature of incident
 - o Cause of incident
 - o Contamination if any
 - o Measures taken to control spill and handle contamination
 - o If spill falls under definition of an incident
 - o Mitigation measures taken to prevent re-occurrence
- Record in non-compliance register and incident (if defined as incident)
- The ECO must review all spill reports
- Adjustments will be made, if necessary, to the operational and emergency procedures to prevent future occurrences

4.2 FIRE

4.2.1 RESPONSIBLE PERSON/S

- The spill is reported to the Foreman who must report to his superior who must report to the ECO.
- All employees should be made aware of the procedure in case of a spill.
- The ECO must report to relevant authorities if contamination occurs and if spill falls within the definition of a spill

4.2.2 PROCEDURE


- Identify source and nature of fire
- In case of small fire extinguish with material appropriate to the nature of the fire. Consult MSDS.
- Immediately contact the ECO. In case of a large fire contact Fire Department
- Seal off exposed stormwater drains to ensure spill does not cause any external contamination
- Determine whether any contamination has occurred
- If contamination has occurred, consult with authorities to determine appropriate rehabilitation and monitoring
- Record in incident register:
 - o Nature of incident
 - o Cause of incident
 - o Clean up measures
 - o Mitigation measures taken
- Record in non-compliance register and record as incident if applicable.
- The ECO must review all fire reports
- Adjustments will be made, if necessary, to the operational and emergency procedures.

APPENDIX 5: INCIDENT RECORD

This is record of incidents as defined in NEMA and the NWA. Incidents should be recorded and reported to the applicable authorities.

Date of incident	Details of incident	Party / ies responsible	Corrective action taken	Date action completed

APPENDIX 6: EXAMPLE OF AN EMERGENCY INCIDENT REPORT FORM (SOURCE: DEA WEBSITE)

		Emergency Incident Report
Document Type:		
Title for the Incident:		
	Date of the incident: [A reference that may be used in future correspondence] example	Initial Submission Date: [Date of initial submission of the report to the Department: Environmental Affairs and Tourism]
Reference:		
Revision No.:	Compiled by: [Full name and contact details of the person submitting the report]	

This form provides a template for the emergency incident report required in terms of section 30(5) of the National Environmental Management Act (Act No. 107 of 1998) (hereinafter “NEMA”) in which the responsible person or, where the incident occurred in the course of that person’s employment, his or her employer, must, within 14 days of the incident, report to the Director General, provincial head of department and municipality such information as is available to enable an initial evaluation of the incident, including: (a) the nature of the incident; (b) the substances involved and an estimation of the quantity released and their possible acute effect on persons and the environment; (c) initial measures taken to minimise impacts; (d) causes of the incident, whether direct or indirect, including equipment, technology, system, or management failure; and (e) measures taken and to be taken to avoid a recurrence of such incident. In terms of section 30(1)(a) of NEMA, an “incident” means an unexpected sudden occurrence, including a major emission, fire or explosion leading to serious danger to the public or potentially serious pollution of or detriment to the environment, whether immediate or delayed. In line with section 24 of the Constitution of the Republic of South Africa (Act No. 108 of 1996), “serious” is taken to be a measure of the impact of an incident where such an incident has had, could have had, is having, or will have a negative impact on human health or well-being.

1. RESPONSIBLE PERSON

In terms of section 30(1)(b) of NEMA, the “responsible person” includes any person who: (i) is responsible for the incident; (ii) owns any hazardous substance involved in the incident; or (iii) was in control of any hazardous substance involved in the incident at the time of the incident		
Name:	[Full name of person, company, etc.]	Designation: [Designation of responsible person (n/a for companies, etc.)]
Postal Address:	[Full postal address including postal code]	
Telephone (B/H)	[Business hours contact telephone number and area code]	
Fax:		
Nature of Business:	[Brief summary of the nature of the business]	

2. Emergency Incident Summary Information

Mark the appropriate boxes			
2.1 Fire:	2.2 Spill:	2.3 Explosion:	2.4 Gaseous Emission:
2.5 Injuries	2.6 Reportable injuries:	2.7 Hospitalisation:	2.8 Fatalities:
2.9 Open water impacts:	2.10 Ground water impacts:	2.11 Atmospheric impacts:	2.12 Soil impacts:
2.13 Own emergency response involved	2.14 Fire prevention services involved	2.15 Government hazardous materials emergency response involved	2.16 More than 1 governmental emergency response service involved
2.17 Emission of non-toxic substances at low concentrations	2.18 Emission of non-toxic substances at high concentrations	2.19 Emission of toxic substances at low concentrations	2.20 Emission of toxic substances at high concentrations
2.21 No evacuation required	2.22 Immediate area evacuated	2.23 Immediate surrounds evacuated	2.24 Evacuation of the general public
2.25 Others			

3. Initial Emergency Incident Report

<p>In terms of section 30(3) of NEMA, the responsible person or, where the incident occurred in the course of that person's employment, his or her employer must forthwith after knowledge of the incident, report through the most effective means reasonably available: (a) the nature of the incident; (b) any risks posed by the incident to public health, safety and property; (c) the toxicity of substances or byproducts released by the incident; and (d) any steps that must be taken in order to avoid or minimise the effects of the incident on public health and the environment to: (i) the Director General; (ii) the South African Police Services and the relevant fire prevention service; (iii) the relevant provincial head of department or municipality; and (iv) all persons whose health may be affected by the incident.</p>			
Description	Date:	Time:	Contact Details:
Relevant fire prevention services: (in case of fire)	[submission date]	[submission time]	[who was the report made to?]
Local:			
Provincial: (Those deal with Environmental issues)			
Director General: (DEA)			
Any other Director General of National Department eg DWA			

4. Incident Details

In terms of NEMA section 30(5)(a) and (d), the responsible person must report on the nature of the incident as well as the causes of the incident, whether direct or indirect, including equipment, technology, system, or management failure

4.1 Location of the incident [Provide physical address of the location where the incident happened including the GPS co-ordinates]

Incident start date and time: [The exact time that the unexpected event started] [the duration of the unexpected event]

Duration of exposure: [The duration of conditions that had a direct impact anyone's health or well-being]

Incident description

Background of the incident:

Operation:

Incident type:

Root Cause of the incident:

Contributing factors to the incident:

Conclusion:

Wind speed and direction [The wind speed and direction at the point of the incident at the time of the incident] **Ambient air temperature** [ambient air temperature at the time of the incident]

Weather conditions [Sunny, light rain, mist, heavy rain, etc.] **Other relevant meteorological conditions** [Temperature inversion, floods, etc]

5. POLLUTANTS RELEASED DURING INCIDENT

In terms of NEMA section 30(5)(b), the responsible person must report on the substances involved and an estimation of the quantity.

List all the pollutants directly released during the incident (i.e. exclude those pollutants that resulted from mitigation measures, e.g. flaring, treatment, dilution etc.)

5.1 Substance or mixture of substances	5.2 Reference Number	5.3 Phase	5.4 Total Quantity emitted	5.5 Unit	5.6 Nature of emission
[The name recognised by any national or internationally recognised chemical referencing system]	[Reference to any national or internationally recognised chemical referencing system]	[solid, semi-solid, liquid or gas]	[the total measured or estimated quantity released into the environment]	[the unit of measure in respect to the quantity]	[emitted from truck, underground pipe, stack, etc.]

6. SECONDARY POLLUTANTS RESULTING FROM INCIDENT

In terms of NEMA section 30(5)(b), the responsible person must report on the substances involved and an estimation of the quantity released.

List all the pollutants that resulted from mitigation measures, e.g. flaring, treatment, dilution etc.

6.1 Substance or mixture of substances	6.2 Reference Number	6.3 Phase	6.4 Total Quantity emitted	6.5 Unit	6.6 Nature of emission
[The name recognised by any national or internationally recognised chemical referencing system]	[Reference to any national or internationally recognised chemical referencing system]	[solid, semi-solid, liquid or gas]	[the total measured or estimated quantity released into the environment]	[the unit of measure in respect to the quantity]	[emitted from truck, underground pipe, stack, etc.]

7. POLLUTANT CONCENTRATIONS

In terms of NEMA section 30(5)(b), the responsible person must report on the substances involved and an estimation of the quantity released.

List all the pollutants detailed above.

7.1. Substance or mixture of substances		7.3. Estimated pollutant concentration		
7.2. Reference Number	7.3.1. 10m	7.3.2. 100m	7.3.3. 500m	7.3.4. >2000m
[Reference to any national or internationally recognised chemical referencing system]	[estimate the concentration of the pollutant in water, soil and/or air within a 10m radius of the epicentre of the incident] [provide the units used in a case of estimating concentrations eg ppm]	[estimate the concentration of the pollutant in water, soil and/or air within a 100m radius of the epicentre of the incident] [provide the units used in a case of estimating concentrations eg ppm]	[estimate the concentration of the pollutant in water, soil and/or air within a 500m radius of the epicentre of the incident] [provide the units used in a case of estimating concentrations eg ppm]	[estimate the concentration of the pollutant in water, soil and/or air within a >2000m radius of the epicentre of the incident] [provide the units used in a case of estimating concentrations eg ppm]

8. INCIDENT IMPACT

In terms of NEMA section 30(5)(b), the responsible person must report on possible acute effect on persons and the environment and data needed to assess these effects;	
8.1 Minor injuries	[Describe the number and types of any minor injuries that resulted from the incident or efforts to manage the incident or the impacts thereof]
8.2 Reportable injuries	[Describe the number and types of any injuries requiring statutory reporting that resulted from the incident or efforts to manage the incident or the impacts thereof]
8.3 Hospitalisation	[Describe the number and types of any injuries that required professional medical care that resulted from the incident or efforts to manage the incident or the impacts thereof]
8.4 Fatalities	[Describe the number and cause of any fatalities that resulted from the incident or efforts to manage the incident or the impacts thereof]
8.5 Biological impacts	[Describe any impacts on biological life, other than human life, e.g. fish kills, plant mortality, etc.]
8.6 Impact area	[Describe the area possibly affected by the incident or the impacts thereof including: (i) size of the area; (ii) socio-economic context; (iii) population density; (iv) sensitive environments (if any), etc.]
8.7 Data	Attach relevant impact reports, medical reports, death certificates, post mortem reports, environmental monitoring data, etc. as Annexes C1, C2,... to this report

9. EXISTING PREVENTION PROCEDURES AND/OR SYSTEMS

9.1 Foresight	[Briefly describe whether the incident could have, or had, been foreseen, e.g. was it included in any environmental impact assessment, risk assessment, health and safety plan, etc.]
9.2 Procedures and/or systems	Attach any relevant safety, health and environmental plans (including any statutory planning requirements) that detail what actions must be taken in the event of the incident that is the subject of this report
9.3 Procedure and/or systems failures	[Describe any failures or shortfalls in procedures and/or systems that may have contributed to the incident]
9.4 Technical measures	[Describe any technical measures, equipment, 'fail-safe' devices, etc. that are in place to prevent the occurrence of the incident]
9.5 Technical failure	[Describe any failures of technical measures, equipment, 'fail-safe' devices, etc. that are in place to prevent the occurrence of the incident]

10. INITIAL INCIDENT MANAGEMENT

In terms of NEMA section 30(5)(c), the responsible person must report on initial measures taken to minimise impacts.	
10.1 Evacuation	[Describe any evacuation activities including information on the number of people evacuated and whether these people were staff or otherwise]
10.2 Technical measures	[Describe all technical measures taken to address the incident]
10.3 Mitigation measures	[Describe all measures taken to minimise the impact]
10.4 Emergency Services	[Describe any governmental emergency services involvement]

11. CLEANUP AND/OR DECONTAMINATION

In terms of NEMA section 30(5)(c), the responsible person must report on initial measures taken to minimise impacts.			
11.1 Cleanup and/or decontamination [Provide a detailed description of all cleanup and/or decontamination activities and the environmental quality and impacts resulting from these activities as well as contact details for any contracted service providers in an annex.]			
11.2 Permissions and Instructions Provide details of any permissions and/or instructions received from any organ of state during initial incident management, cleanup and/or decontamination			
11.3 Type	11.4 Statute	11.5 Issued By	11.6 Name and contact details
[Describe the nature or type of permission or instruction]	[Provide a reference to the legal mandate for the permission or instruction]	[Provide contact details for the permitting or instructing authority]	[provide a summary of the activities carried out in terms of the permission or instruction]

12. MITIGATION MEASURES

In terms of NEMA section 30(5)(e), the responsible person must report on measures taken and to be taken to avoid a recurrence of such incident.			
12.1 Measure	12.2 Objective	12.3 Cost	12.4 Timing
[Briefly describe each of the measures taken, and to be taken, to avoid a recurrence of such incident]	[Briefly describe the objective of the measure, i.e. the desired outcome of the measure]	[Estimate the cost of the measure in terms of capital costs and/or recurrent costs]	[Provide information on the timing for the full implementation of the measure]

13. AUTHORISATIONS

Provide detail on all authorisations (including permits, licenses, certificates, etc.) in respect of the activity to which the incident relates.			
13.1 Type	13.2 Statute	13.3 Issued By	13.4 Issue & Expiry Date
[Describe the nature or type of authorisation, e.g. Registration Certificate]	[Provide the reference for the authorisation, e.g. section X of the National Environmental Management Act (Act No. 107 of 1989)]	[Provide contact details for the issuing authority]	[provide the date of issue and expiry]

14. History

Provide details on any and every similar incident involving the responsible person in the last 24 months. Similar incidents include those that: (i) involved similar circumstances; (ii) involved similar emissions; (iii) involved similar personal; and/or (iv) involved similar impacts.

14.1 Incident title	14.2 Report reference	14.3 Date of incident	14.4 Summary of event
[Provide the title used in the relevant emergency incident report]	[Provide the reference in respect of the relevant emergency incident report]	[Date of incident]	[Provide a summary of the event]

Signed by, or as a mandated signatory for, the responsible person:

	Date:
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APPENDIX 1
List of affected people as results of the incident

NAME	ADDRESS	PHONE	FAULT	REMARKS

APPENDIX 2
Layout map of the area likely to be affected or affected as a result of the incident

Disclaimer: Any other information not covered in the reporting template must be included.

CAUTION: In terms of section 30 (11) of NEMA as amended, it is an offence not to report an incident and liable on conviction to a fine not exceeding R 1 million or imprisonment for a period not exceeding 1 year, or to both such a fine and such imprisonment.

APPENDIX 7: ENVIRONMENTAL AWARENESS PLAN



Environmental Awareness Plan

1.

Important Definitions

- **Environment** (NEMA, 1998) - means the surroundings within which humans exist and that are made up of -
 - the land, water and atmosphere of the earth;
 - microorganisms, plant and animal life;
 - any part or combination of (i) and (ii) and the interrelationships among and between them; and
 - the physical, chemical, aesthetic and cultural properties and conditions of the foregoing that influence human health and wellbeing
- **Pollution** (NEMA, 1998) - means any change in the environment caused by -
 - substances;
 - radioactive or other waves; or
 - noise, odours, dust or heat, emitted from any activity, including the storage or treatment of waste or substances, construction and the provision of services, whether engaged in by any person or an organ of state, where that change has an adverse effect on human health or wellbeing or on the composition, resilience and productivity of natural or managed ecosystems, or on materials useful to people, or will have such an effect in the future
- **Environmental Management Programme** – refers to a document that used to investigate, assess and evaluate the impacts that the mine is likely to have on the environment during the operation and decommission phases.

Why Should We Protect The Environment?

- It is our right to live in a clean and healthy environment.
- To ensure that future generations live in a clean environment.
- To prevent the loss of species diversity.
- To prevent loss of ecological goods and services.

Toolbox Talks

The site manager must ensure that all site staff are informed of the details of the environmental awareness plan as well as the conditions of the Environmental Authorization issued by the Department of Agriculture and Environment Affairs (DAEA). Regular toolbox sessions must be held to ensure that staff are reminded about environmental and safety issues and procedures. Environmental posters must be presented to staff (the following pages can be used as the environmental posters on the site). Posters below can be used as topics for the environmental toolbox talks.

Sensitive Areas

All workers on site must be aware of the sensitive areas on site. This includes:

- The Wekeweke Stream and two wetland tributaries draining into the stream
- D'MOSS on the sites western boundary
- The Green Open Space component of the development
- The 32m buffer from the boundary of the riparian habitat of the Wekeweke Stream adjacent to the site and wetlands on site. The 32m buffer is to be demarcated prior to construction activities to ensure that workers are aware of the location and prevent impacts from occur in this area.



Site Environmental Rules

1. No urinating or defecating on site. Toilet facilities provided at the sites to be used at all times.
2. Do not waste water.
3. No littering.
4. No washing of construction vehicles on site
5. Restricted access to the Wekeweke Stream and associated 32m buffer during construction
6. Do not use spill kits for disposal of general waste
7. No eating of sugar cane at any point in time whilst on the construction site
8. Adherence to the Tongaat Hulett Development's Environmental, Safety and Health "Ground Rules".
9. Display MSDS for storage containers on site and handle hazardous materials accordingly.



Dispensing, storage and disposal of hydrocarbons/mineral oils

DISCUSSION:

What is a Hydrocarbon (mineral oil)?

Diesel/hydraulic oil etc. are hydrocarbons and therefore classified as hazardous substances. A hazardous substance is any material that poses an unreasonable risk to people, property and the environment. The environment is our surroundings, soil, air and water.

What is the risk?

- Regular dispensing and offloading of diesel increases the risk of a spillage occurring.
- Changing hydraulic lines/ greasing parts / basic maintenance of vehicles
- Leaks from vehicles and equipment

Hydrocarbons are toxic if swallowed by humans or animals. The presence of hydrocarbons in water can also prevent aquatic organisms from breathing and may result in aquatic kills depending on the extent of the spill. Hydrocarbons should therefore be prevented from contaminating ground or surface water.

Note:

Only 1 litre of oil can contaminate a soccer field of water. It is therefore essential to prevent spillages as far as possible and to ensure that if they do occur that they are properly cleaned up and that the resulting material is disposed of correctly.

What is a spillage?

All situations involving the spilling of a hydrocarbon on to the floor or ground or water.

How do we manage this?

- 1 Correct Storage:**
 - a. Refer to issues around the bunded area.
 - b. Should be contained in waterproof and leak proof containers. Any containers or points that are leaking to be addressed immediately.
 - c. Should be stored in a dedicated area on site.
- 2 Correct Dispensing:**
 - a. Should check lines for leaks before starting with dispensing.
 - b. Place drip tray so as to catch any drips. How would you and into what would you empty the drip tray?
 - c. Ensure all residual diesel/oil is drained from pipe before disconnecting.
- 3 Maintenance of vehicles and equipment**
 - a. Check equipment and vehicles for leaks daily. Report leaks to supervisor immediately. Contain slow drips using a drip tray.
 - b. Do not use excessive grease when greasing vehicle or equipment parts.
- 4 Correct Spillage Handling and Disposal:**
 - a. Clean all spillages immediately. This means treat and remove spillage.
 - b. Dispose in hazardous waste drum or skip.
 - c. Report spillage to supervisor.

DATE:	TIME:	LOCATION:
TOPIC:	Dispensing, storage and disposal of hydrocarbons/ mineral oils	
ISSUE:	Spillage	

Use and maintenance of drip trays

4.

DISCUSSION:

What is a Drip Tray?

A drip tray is a plastic or metal container that can be used to contain a liquid. A container is suitable to be used as a drip tray, if

- it is heavy enough not to be blown away;
- has no holes in the base or side from which a liquid could leak; and
- the sides are high enough that the liquid will not overflow.

The drip tray must be sized according to the amount of liquid that needs to be captured and contained.

What is the risk?

There is a risk of spillage of hydrocarbons or other chemicals under the following circumstance:

- Various equipment and vehicles may develop slow hydrocarbon leaks (oils);
- During maintenance of vehicles and equipment, there is a risk that hydrocarbons, grease, diesel/petrol may be spilt;
- Refuelling of equipment and vehicles;
- During decanting of chemicals such as paint and curing compound etc, some of the chemicals may be spilt on the ground; and/or
- While applying paint or grease you need something to put the tin, paint brush or roller into.
- Temporary storage of chemicals at point of use

Under all these circumstances the correct use of a drip tray could prevent a spillage on to the ground or into water.

What is correct use of a drip tray?

Note that the use of a drip tray should be an additional precaution to other controls. For example:

- Decanting of chemicals should be done within a bunded area as far as possible. A funnel should be used when discharging liquids into a container with a small opening. Spillage of chemicals should always be avoided. A drip tray should be used only as a precaution in case there is a spill.
- Vehicles and equipment should be checked daily and maintained correctly to prevent leaks. Drip trays should be placed underneath equipment and vehicles when stationary as a precaution in case there is a leak.
- Temporary storage of chemicals at point of use. Chemicals should always be returned to chemical store at the end of the shift.
- When refuelling vehicles or equipment a drip tray should be used to capture any excess or spillages from the nozzle of the hose. There should be no overfilling of vehicles and equipment.
- Drip trays may be used for the placing of paint brushes and rollers while applying curing compound.

Correct maintenance?

Drip trays should be maintained empty. Drip trays are to be checked daily, cleaned and emptied into the hazardous waste skip. Drip trays that are not being used should be stored under cover to prevent them filling with rain water.

DATE:	TIME:	LOCATION:
TOPIC:	Use and maintenance of Drip trays	
ISSUE:	Drips trays not being used when they should be	
	Incorrect maintenance of drip trays resulting in spillages	

Use, handling and storage of hazardous chemicals

5.

DISCUSSION:

What is a Hazardous Chemical?

These are substances that may be dangerous to humans and or the environment if not handled, stored and disposed of correctly. The definition of a hazardous chemical is based on the amount, concentration or inherent properties of the waste.

e.g. Consumption of Alcohol,

Amount – the effect of 1 glass versus 5 litres. It is the same with a chemical. One drop may not be harmful but continuous dripping over a period of a week could be very harmful

Concentration – Beer as opposed to wine, there is alcohol in both but there is more alcohol in the wine than in the beer. It is the same with some chemicals

Inherent properties – Methylated spirits versus Beer, one bottle of methylated spirits could kill you but one beer won't because of the type of alcohol in the beer versus that in methylated spirits. It is the same with some chemicals

What is the risk?

There is a risk of spillage of chemicals under the following circumstance:

- During decanting of chemicals such as paint and curing compound etc, some of the chemicals may be spilt on the ground; and/or
- While applying paint or grease you need something to put the tin, paint brush or roller into.
- Temporary storage of chemicals at point of use

What are the correct use, handling and storage of hazardous chemicals?

- Hazardous chemicals should be stored in a roofed, bunded area that is kept locked. Entry of rain water into the bunded area must be prevented.
- All chemicals or chemical contaminated items should be stored within the bunded area. NOT on the wall of the bunded area or outside the bunded area on a concrete slab.
- Empty chemical containers and drums should be stored in the bunded area until removed or smaller containers thrown in the hazardous waste skip e.g. paint tins, paint brushes or rollers.
- Decanting of chemicals should be done within a bunded area as far as possible. A funnel should be used when discharging liquids into a container with a small opening. Spillage of chemicals should always be avoided.
- All chemical containers should be labelled. No food related containers are to be used for the storage of chemicals e.g. cool drink bottles.
- Temporary storage of chemicals at point of use. Chemicals should always be returned to chemical store at the end of the shift.
- Drip trays may be used for the placing of paint brushes and rollers while applying curing compound or shutter oil.
- All these chemicals must have an MSDS (material safety data sheet). This information is required to ensure that all chemicals are stored, handled and disposed of in the best possible way to ensure the safety of staff and the environment.

Correct maintenance of bunded area

Any cracks in the walls or floors and holes in the roof are to be repaired as soon as possible. Bunded area is to be kept free of spillages. Any spillages are to be cleaned up and disposed of as hazardous waste.

DATE:	TIME:	LOCATION:
TOPIC:	Use, handling and storage of hazardous chemicals	
ISSUE:	Incorrect storage of chemicals	
	Spillage of chemicals	

Hazardous Waste handling, storage and disposal

DISCUSSION:

What is Hazardous waste?

These are wastes that may be dangerous to humans and or the environment if not handled, stored and disposed of correctly. The definition of a hazardous waste is based on the amount, concentration or inherent properties of the waste.

e.g. Consumption of Alcohol,

Amount – the effect of 1 glass versus 5 litres

Concentration – Beer as opposed to wine

Inherent properties – Methylated spirits versus Beer

Name some examples of hazardous wastes generated on site:

Used oils (hydrocarbons), contaminated spill absorbent or sand, paints (hydrocarbons), batteries (acid), fluorescent tubes (mercury) etc.

Correct handling, storage and disposal:

- Should be contained in waterproof and leak proof containers until they are removed from site.
- Should be stored in a dedicated area on site.
- Should not be disposed of with domestic waste, but must be disposed in containers for hazardous waste only.

Why?

- To prevent unnecessary exposure of staff and the environment to harmful wastes
- Reduce amount paid by the company for the disposal of hazardous wastes by ensuring that wastes are separated correctly.

What is an incident?

- Paint tin, fluorescent tube etc. in domestic waste bin.
- Liquid running out of the bottom of the hazardous waste bin.

DATE:	TIME:	LOCATION:
TOPIC:	Hazardous Waste handling, storage and disposal	
ISSUE:	Mixing of wastes	
	Incorrect containment of hazardous wastes	

Waste segregation and separation

DISCUSSION:

What is waste separation?

This is the separation of hazardous and general waste

Some examples of hazardous wastes generated on site:

Used oils (hydrocarbons), contaminated spill absorbent or sand, paints, batteries (acid), fluorescent tubes (mercury), concrete.

Some examples of general waste generated on site:

Cool drink bottles, chip packets, plastic, leftover food, paper etc.

Correct handling, storage and disposal

- General waste must be disposed of in the green wheelie bins or marked skips provided
- Hazardous waste to be thrown in marked skips provided or 210L marked drums provided in certain areas
- The two must not be mixed!
- If hazardous waste is found in general waste, all must be disposed of as hazardous waste.

Why?

- The two waste types are disposed of at different waste dumps. The general waste dump is built only to deal with general waste. Hazardous waste accidentally disposed of here, could pollute the water and harm the people in the area.
- Disposal of general waste at a hazardous waste site results in an unnecessary cost to the company, as it is a lot more expensive to dispose of hazardous waste than general waste.

What is an incident?

- Mixed waste in any of the skips or bins.

DATE:	TIME:	LOCATION:
TOPIC:	Waste segregation	
ISSUE:	Mixing of wastes	
	Incorrect disposal of mixed wastes	

Wasting drinking water

DISCUSSION:

What are examples of wasting of drinking water?

- Not turning a tap off properly after use.
- Poor maintenance of water fittings resulting in continuous leaking or dripping.
- Overfilling and / or overflowing of water containers.

Why should we not waste drinking water?

- Good, clean water is scarce in South Africa and expensive to produce and must therefore be used sparingly. Remember anything we put into the water (river, lake or dam) has to be removed before we can drink the water. The more we pollute the water the more expensive it becomes to clean it.

Ways to save water:

- Don't drink directly from the tap, rather fill a glass with water, switch the tap off and drink from the glass.
- Report any maintenance issues with water fittings or lines, as soon as possible.

What is an incident?

- Dripping or leaking taps or water connections.
- Overflowing of containers that contain water.

DATE:	TIME:	LOCATION:
TOPIC:	Wasting drinking water	
ISSUE:	Scarcity of drinking water	
	Expense to produce drinking water	

Environmentally Sensitive Areas

DISCUSSION:

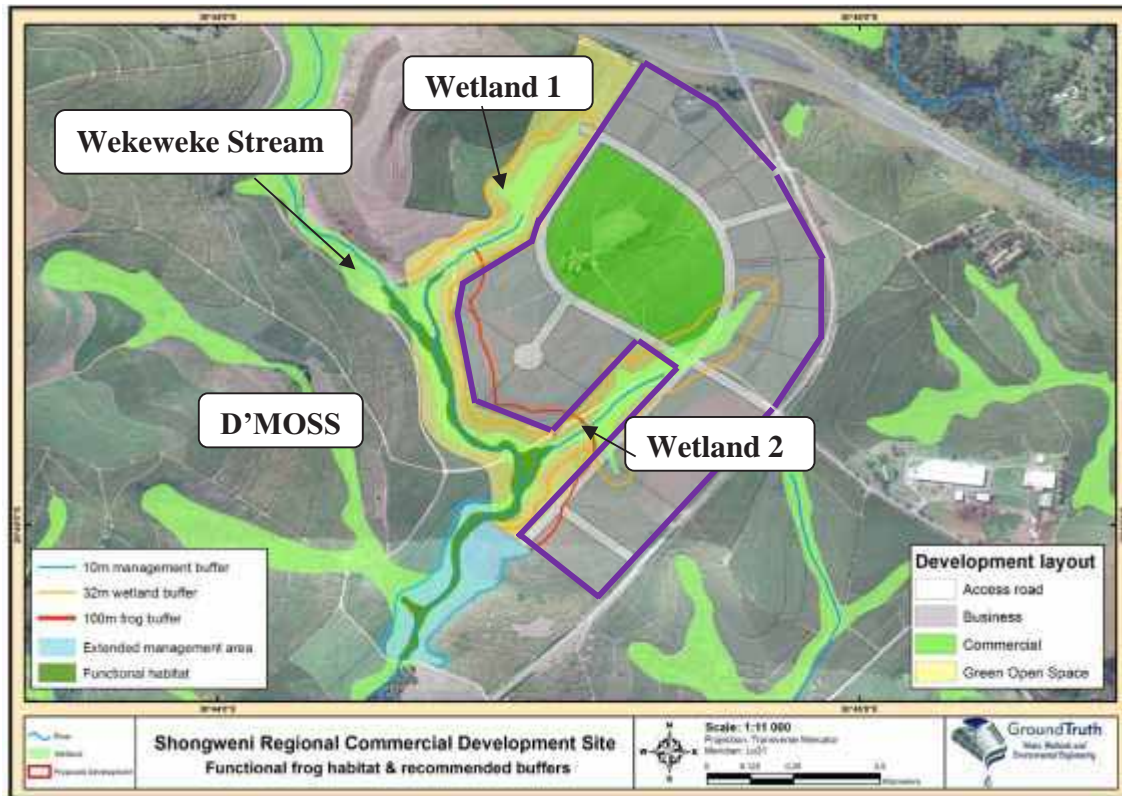
Before construction there were 3 areas that were identified as environmentally important. These are shown in the figure below and include:

1. The Durban Metropolitan Open Space System (D'MOSS)
2. The Wekeweke Stream
3. Two wetland ecosystems on the site

Construction area – **PURPLE**

Buffer area – **YELLOW LINE**

Important plants – **GREEN**



IMPORTANCE:

The Wetlands drain into the Wekeweke Stream. The Wekeweke Stream supports a variety of important vegetation and animals as well as cleaning water which flows into the Shongweni Dam and finally into the Mgeni River catchment.

The Buffer area is to be demarcated as a NO GO zone. The following rules should be applied:

- No littering within these areas.
- No dumping of material (soil, cement, rubble, waste etc.) in or adjacent to this buffer area.
- No toilets are to be in or adjacent to the buffer area.

DATE:	TIME:	LOCATION:
TOPIC:	Environmentally Sensitive Areas	
ISSUE:	Demarcation of the relevant areas assisting in identification	
	Potential impacts that workers could have on these areas.	

Appendix 9: Wetland Rehabilitation Plan (GroundTruth, August 2013)

(to be attached to the EMPr during construction. The Rehabilitation Plan is currently attached as Appendix 15 of the EIR)

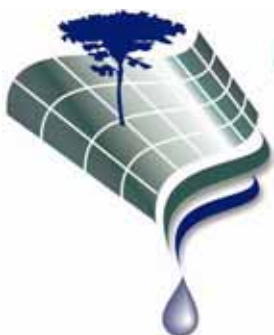


APPENDIX 15:

WETLAND REHABILITATION PLAN FOR TONGAAT HULETT DEVELOPMENTS, SHONGWENI DEVELOPMENT: SITE 2
(GROUNDTRUTH)

Wetland Rehabilitation Plan

Tongaat Hulett Developments Shongweni Development: Site 2



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Reference: GTW280-200813-01

Date: August 2013

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Table of Contents

1. INTRODUCTION	6
2. OVERVIEW OF ONSITE WETLAND HABITAT	8
3. PROJECT TEAM.....	10
4. METHODOLOGY.....	11
4.1. Assessment of wetland functioning and condition	11
4.1.1. Assessment of wetland functioning	12
4.1.2. Assessment of wetland condition/integrity.....	13
4.2. Rehabilitation planning.....	16
4.3. Specification of management and maintenance requirements	16
4.4. Alien invasive plant clearing.....	16
5. ASSUMPTIONS AND LIMITATIONS	17
6. STUDY RESULTS.....	19
6.1.1. Wetland ecological functioning.....	19
6.1.1.1. Wetland ecological functioning.....	19
6.1.2. Wetland ecological integrity assessment.....	21
6.1.3. Overall ecosystem integrity	22
7. WETLAND REHABILITATION.....	25
7.1. Wetland problems.....	26
7.2. Wetland rehabilitation aims and objectives.....	26
7.3. Wetland rehabilitation strategy	27
7.4. Wetland Rehabilitation Interventions	29
7.4.1. Earthworks.....	31
7.4.1.1. Backfilling drain and / or channel	31
7.4.1.2. Deactivation of agricultural road network	32
7.4.1.3. Sediment fences and / or ‘Bio-jute’	33
7.4.2. Structural Intervention types	33
7.4.2.1. Concrete weir.....	33
7.4.2.2. Gabion cut-off walls	34
7.4.3. Re-vegetation of Wetland Habitat	34
7.4.4. Eradication of alien invasive plant species	34
7.4.5. Implementation Order	36
8. WETLAND REHABILITATION MONITORING AND EVALUATION.....	37
8.1. Monitoring of Interventions	37
8.2. Fixed point photography/site photographs.....	37
8.3. Wetland assessments	37
8.4. Wetland rehabilitation effectiveness	38
9. WETLAND MAINTENANCE.....	39
9.1. Management.....	39
9.2. Maintenance	39
9.3. Control of emerging alien invasive plant species.....	39
10. REFERENCES	41
11. APPENDICES	43

List of Figures

Figure 1-1 Location of the study site	6
Figure 1-2 Overview of proposed development layout.....	7
Figure 2-1 View of current extent of wetland habitat.....	8
Figure 2-2 The wetland habitat remaining in the post-development landscape.....	9
Figure 4-1 Overview of the rehabilitation process.....	11
Figure 6-1 Graphic representation of the HGM unit 1's current and post-development ecosystem services.....	20
Figure 6-2 Graphic representation of the HGM unit 2's current and post-development ecosystem services.....	20
Figure 6-3 A graphic representation of HGM Unit 1, in terms of both spatial extent and functional area, comparing the reference conditions through to the development scenario.	23
Figure 6-4 A graphic representation of HGM Unit 2, in terms of both spatial extent and functional area, comparing the reference conditions through to the development scenario.	24
Figure 7-1 An example of rehabilitated wetland habitat in a landscape previously devoid of functional wetland habitat.....	25
Figure 7-2 Example of alien invasive vegetation within the systems.....	26
Figure 7-3 An example of the proposed change in hydrological regime following rehabilitation	28
Figure 7-4 An example of active re-vegetation of wetland habitat	28
Figure 7-5 Overview of the location of the proposed interventions for HGM Unit 1	30
Figure 7-6 Overview of the location of the proposed interventions for HGM Unit 2.....	31
Figure 7-7 Example of a central drain channelling flows through the wetland habitat.....	32
Figure 7-8 Example of an agricultural road within the wetland habitat.....	32
Figure 7-9 An example of the use of 'Bio-jute' in a newly worked area.....	33
Figure 7-10 Example of a concrete weir	34

List of Tables

Table 3-1 Team members, roles, and experience levels	10
Table 4-1. Ecosystem services supplied by wetlands.....	13
Table 4-2 Impact scores and present state categories for describing the integrity of wetlands	14
Table 6-1 Summary of current Ecosystem Services Scores for HGM unit 2	21
Table 6-2 Summary of the ecological integrity of the wetland for the current condition.....	22
Table 6-3 Summary of the ecological integrity of the wetland for the post-development scenario	22
Table 6-4 HGM Unit 1: Ecological integrity and hectare equivalents for the current and post-development scenario.....	23
Table 6-5 HGM Unit 2: Ecological integrity and hectare equivalents for the current scenario	24
Table 8-1 Criteria used for monitoring structural integrity of wetland rehabilitation interventions	37

List of acronyms

Acronym	Explanation
CR	Critically Endangered
DAEA	Department of Agriculture and Environmental Affairs
DWA	Department of Water Affairs
ETS	Ecosystem Threat Status
GroundTruth	GroundTruth Water, Wetlands and Environmental Engineering
HGM	Hydrogeomorphic unit
KZN	KwaZulu-Natal
MAP	Mean Annual Precipitation
NFEPA	National Freshwater Ecosystem Priority Areas
NP	Not Protected
PES	Present Ecological State
PET	Potential Evapotranspiration
SANBI	South African National Biodiversity Institute
SVs	Sub-Escarpment Savanna
SVs5	KwaZulu-Natal Sandstone Sourveld
THD	Tongaat Hulett Developments
WT	Wetland Type

1. INTRODUCTION

GroundTruth Water, Wetlands and Environmental Engineering (GroundTruth) was appointed by Tongaat Hulett Developments (THD) to compile a wetland rehabilitation plan for the wetland habitat within Site 2 of the Shongweni Development near Shongweni, KwaZulu-Natal (**Figure 1-1**). The rehabilitation of the wetland habitat within the above-mentioned site was identified as a means of contributing towards the onsite mitigation of the impacts of the proposed development. The development of the proposed facilities will comprise a retail centre/commercial development (**Figure 1-2**).

Local, regional and national regulatory bodies, such as the Departments of Water Affairs (DWA) and Agriculture and Environmental Affairs (DAEA), have adopted legislation, policies and guidelines that regulate the use of wetland habitat to protect and maintain these systems' benefits and services to society and the natural environment. This report includes details relating to a wetland delineation study undertaken by LRI in 2007. Furthermore, GroundTruth (2012, 2013) assessed the importance and integrity of the wetlands within the study site and the Wekeweke Stream system for the current scenario. This study includes the assessment of the wetland systems within the post-development landscape to determine the impact of the proposed development, so as to ensure 'no-net-loss' of wetland functioning and integrity within the landscape. The rehabilitation of the remaining wetland habitat onsite aims at achieving the objective of 'no-net-loss', through detailed rehabilitation planning. The wetland rehabilitation planning is outlined in this report, including findings of the previous studies, and has been undertaken in accordance with the general process adopted by the national Working for Wetlands programme and in accordance with the approach outlined in WET-RehabPlan (Kotze *et al.*, 2009).

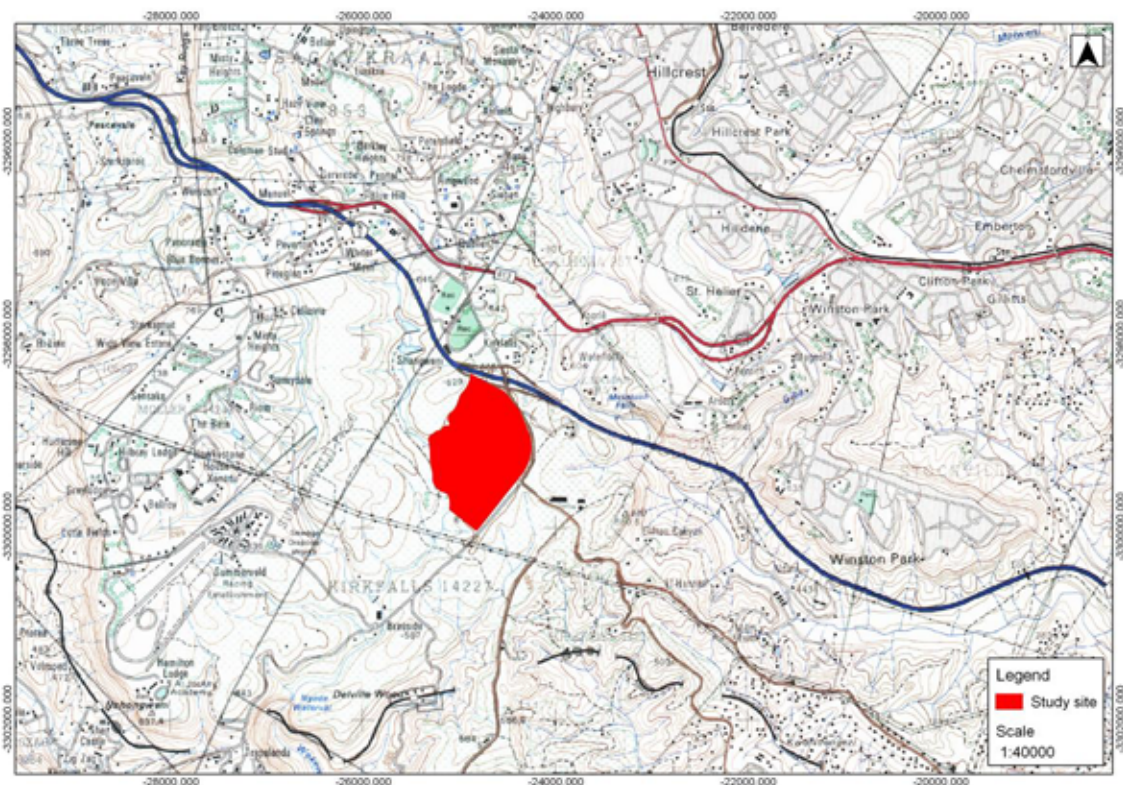


Figure 1-1 Location of the study site

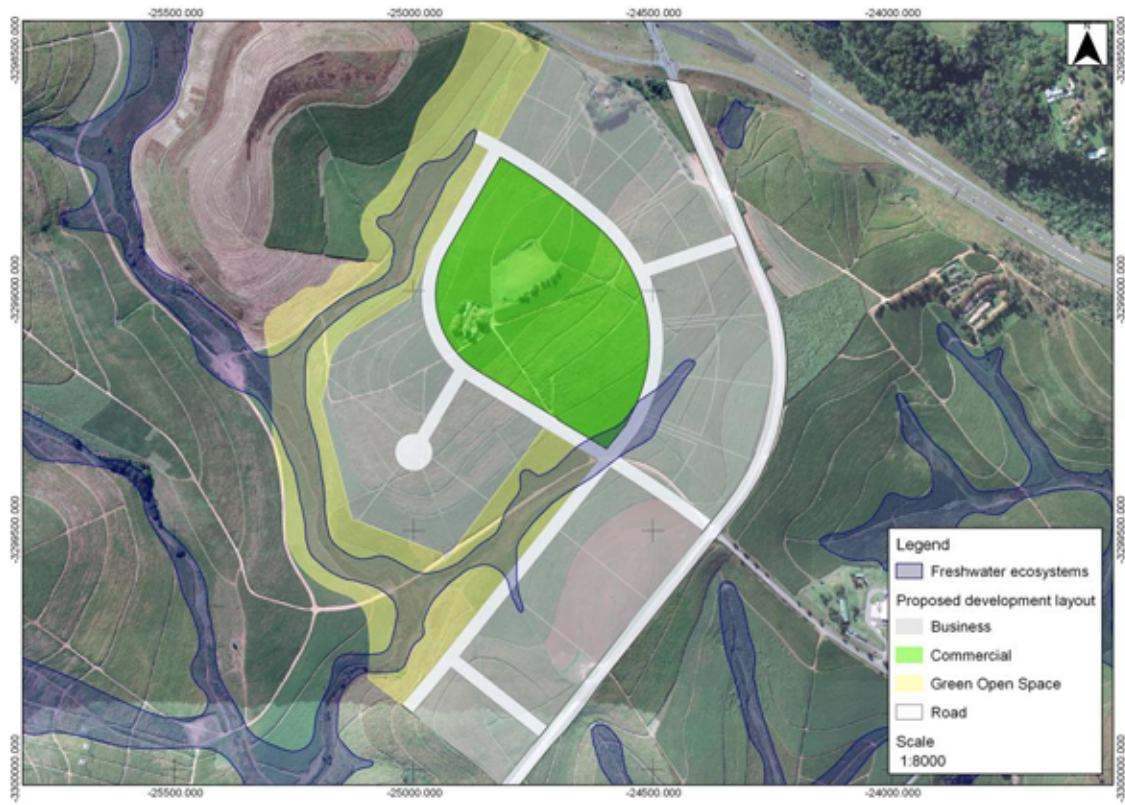


Figure 1-2 Overview of proposed development layout

2. OVERVIEW OF ONSITE WETLAND HABITAT

The extent of the wetland habitat within the study site is approximately 6.76ha, as identified during the delineation study (LRI, 2007), incorporating two hydrogeomorphic (HGM) units. Both of these HGM units drain into the Wekeweke stream, which flows along the south-western boundary of the site (**Figure 2-1**).

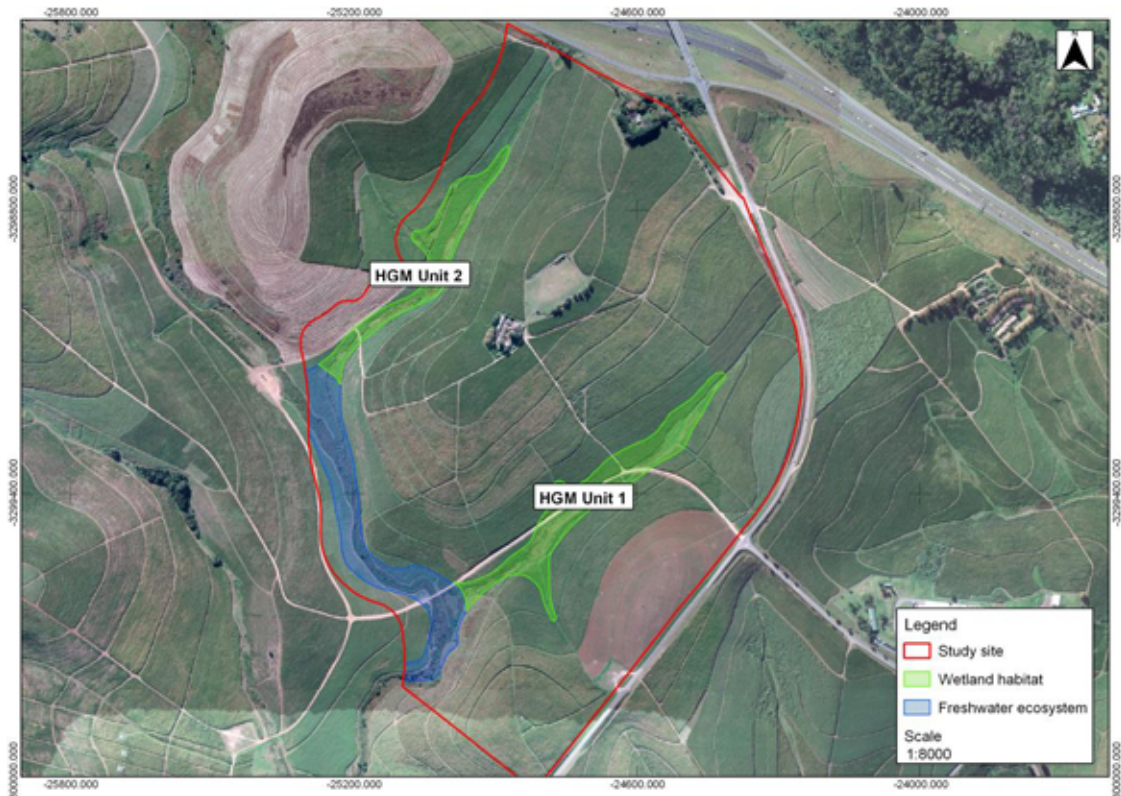


Figure 2-1 View of current extent of wetland habitat

Within the post-development landscape the remaining wetland habitat will cover an area of approximately 5.06ha (**Figure 2-2**), based on the supplied proposed development layout (**Figure 1-2**). The development layout incorporates stormwater attenuation ponds within the green open space, which will assist in addressing increased runoff velocities originating from the hardened surfaces within the wetlands' catchment. Additional rehabilitation measures will need to be implemented to appropriately mitigate the additional water inputs into the systems', should these attenuation facilities be excluded in the final development layout.

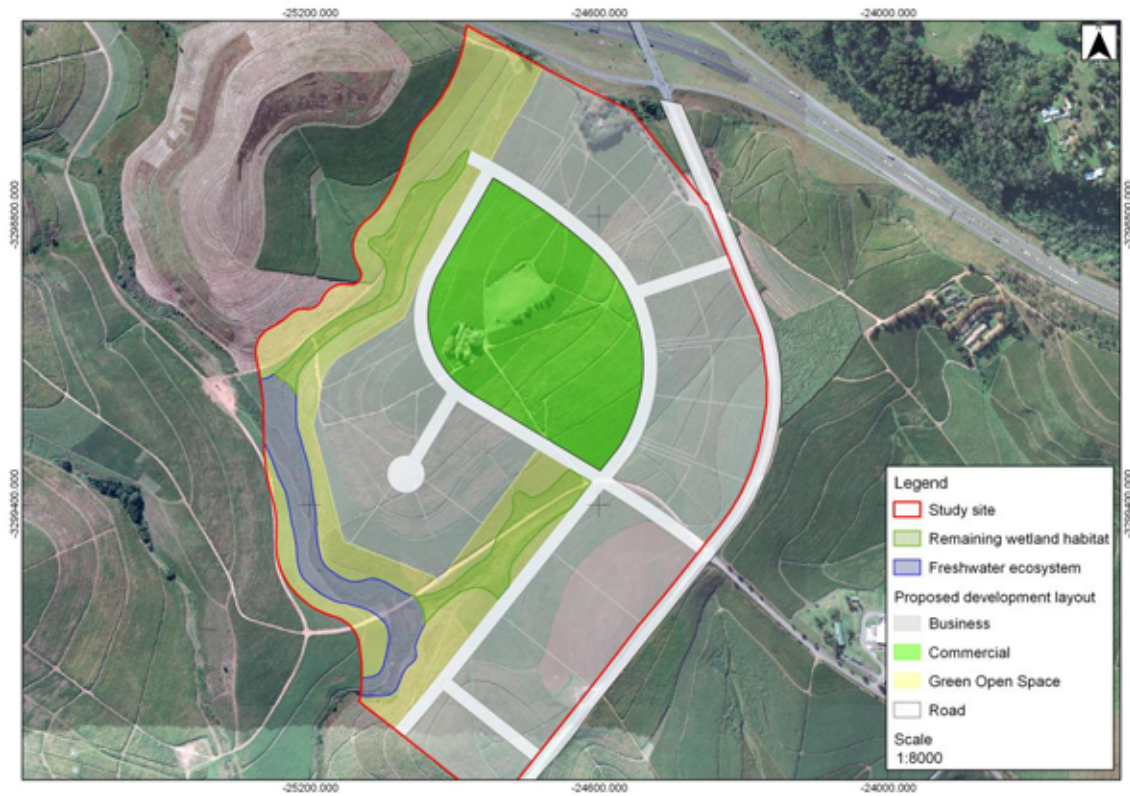


Figure 2-2 The wetland habitat remaining in the post-development landscape

3. PROJECT TEAM

The project team consisted of three team members, with experience in the rehabilitation of wetland ecosystems (**Table 3-1**).

Table 3-1 Team members, roles, and experience levels

Practitioner	Role in the Study	Experience Levels
Craig Cowden	<ul style="list-style-type: none"> • Conducting the infield rehabilitation planning (Wetland ecologist) • Review of project report 	14 years' experience, with input into various wetland studies, including: <ul style="list-style-type: none"> • Delineation and assessments; • Rehabilitation planning; and • Mitigation & offset requirements
Trevor Pike	<ul style="list-style-type: none"> • Conducting the infield rehabilitation planning (Engineering) • Design of the required rehabilitation interventions • Compilation of the project report 	19 years' experience, with input into various environmental engineering studies, focussing on: <ul style="list-style-type: none"> • Wetland rehabilitation planning; and • Storm water management.
Fiona Eggers	<ul style="list-style-type: none"> • Post-development assessment; • Compilation of project report 	3 years' experience with input into various wetland studies: <ul style="list-style-type: none"> • Delineation; • Assessments; and • Mitigation & offset requirements

4. METHODOLOGY

The rehabilitation of freshwater ecosystems is considered to be a complex undertaking and the planning process involves multiple disciplines. The relevant components of the following methodology were adopted for the project and comprised of multiple steps (Figure 4-1), using existing information from previous studies and infield observations.

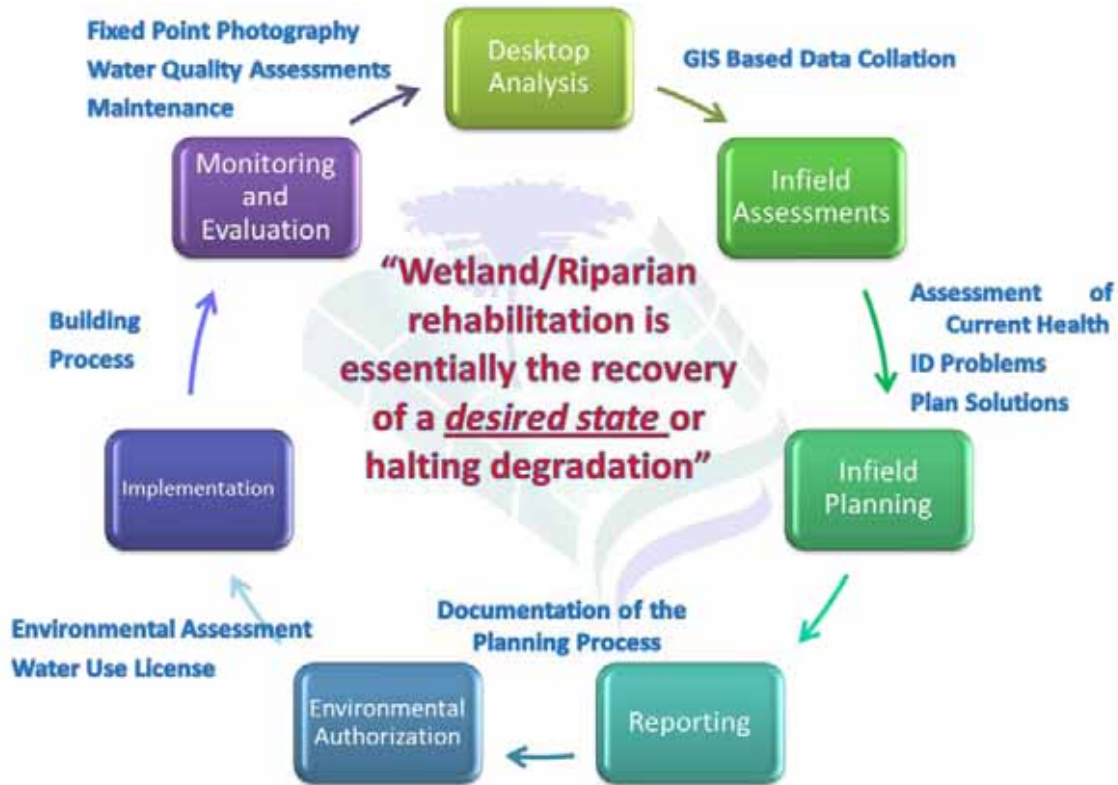


Figure 4-1 Overview of the rehabilitation process

4.1. Assessment of wetland functioning and condition

Determining the potential impacts of the proposed development on the wetland habitat requires the assessment and thus understanding of the levels of functioning and condition/integrity of the wetland for the current and post-development scenarios. The assessment of the current state of the wetlands was informed by the previous study undertaken by GroundTruth (2013). The assessments of the post-development scenarios are described below.

4.1.1. Assessment of wetland functioning

To quantify the level of functioning of the wetland systems, and to highlight their relative importance in providing ecosystem benefits and services at a landscape level, a WET-EcoServices (Kotze *et al.*, 2007) assessment was performed for each HGM unit for the post-development scenario. The WET-EcoServices assessment technique focuses on assessing the extent to which a benefit is being supplied by the wetland habitat, based on both:

- The opportunity for the wetland to provide the benefits; and
- The effectiveness of the particular wetland in providing the benefit.

Ecosystem services, which include direct and indirect benefits to society and the surrounding landscape, were assessed by rating various characteristics of the wetland and its surrounding catchment, based on the following scale:

- Low (0);
- Moderately Low (1);
- Intermediate (2);
- Moderately High (3); and
- High (4)

The scores obtained from these ratings for the wetland HGM units were then incorporated into WET-EcoServices scores for each of the fifteen ecosystem services (**Table 4-1**).

While Wet-EcoServices assists in identifying the importance and sensitivity of specific wetlands, it is recognised as having limitations in terms of:

- Quantifying specific impacts linked to development or changes within the landscape; and
- Accounting for the size of the wetland and ecosystem services strongly associated with the size of the systems.

The assessment of ecosystem services for the post-development scenario should therefore be viewed taking into account these limitations.

Table 4-1. Ecosystem services supplied by wetlands

(Kotze *et al.*, 2007, p14)

Ecosystem services supplied by wetlands		Indirect benefits			
		Regulating and supporting benefits			
		Flood attenuation		The spreading out and slowing down of floodwaters in the wetland, thereby reducing the severity of floods downstream	
		Stream flow regulation		Sustaining stream flow during low flow periods	
		Water quality enhancement benefits	Sediment trapping		The trapping and retention in the wetland of sediment carried by runoff waters
			Phosphate assimilation		Removal by the wetland of phosphates carried by runoff waters
			Nitrate assimilation		Removal by the wetland of nitrates carried by runoff waters
			Toxicant assimilation		Removal by the wetland of toxicants (e.g. metals, biocides and salts) carried by runoff waters
			Erosion control		Controlling of erosion at the wetland site, principally through the protection provided by vegetation
Carbon storage		The trapping of carbon by the wetland, principally as soil organic matter			
Direct benefits		Biodiversity maintenance		Through the provision of habitat and maintenance of natural process by the wetland, a contribution is made to maintaining biodiversity	
		Provisioning benefits	Provision of water for human use		The provision of water extracted directly from the wetland for domestic, agricultural or other purposes
			Provision of harvestable resources		The provision of natural resources from the wetland, including livestock grazing, craft plants, fish, etc.
			Provision of cultivated foods		The provision of areas in the wetland favourable for the cultivation of foods
		Cultural benefits	Cultural heritage		Places of special cultural significance in the wetland, e.g. for baptism or gathering of culturally significant plants
			Tourism and recreation		Sites of value for tourism and recreation in the wetland, often associated with scenic beauty and abundant birdlife
Education and research			Sites of value in the wetland for education or research		

4.1.2. Assessment of wetland condition/integrity

To determine the level of ecological integrity, a WET-Health (MacFarlane *et al.*, 2007) assessment was performed for each HGM unit. The WET-Health assessment technique gives an indication of the deviation of the systems from the wetlands' natural reference condition for the following biophysical drivers:

- Hydrology - defined as the distribution and movement of water through a wetland and its soils;
- Geomorphology - defined as the distribution and retention patterns of sediment within the wetland; and
- Vegetation - defined as the vegetation structural and compositional state.

The impacts on the wetlands, determined by features of the wetlands and their catchments for the post-development landscape, were scored based on the impact scores and then represented as Present State Categories as outlined in WET-Health (**Table 4-1**).

Table 4-2 Impact scores and present state categories for describing the integrity of wetlands
(MacFarlane *et al.*, 2007)

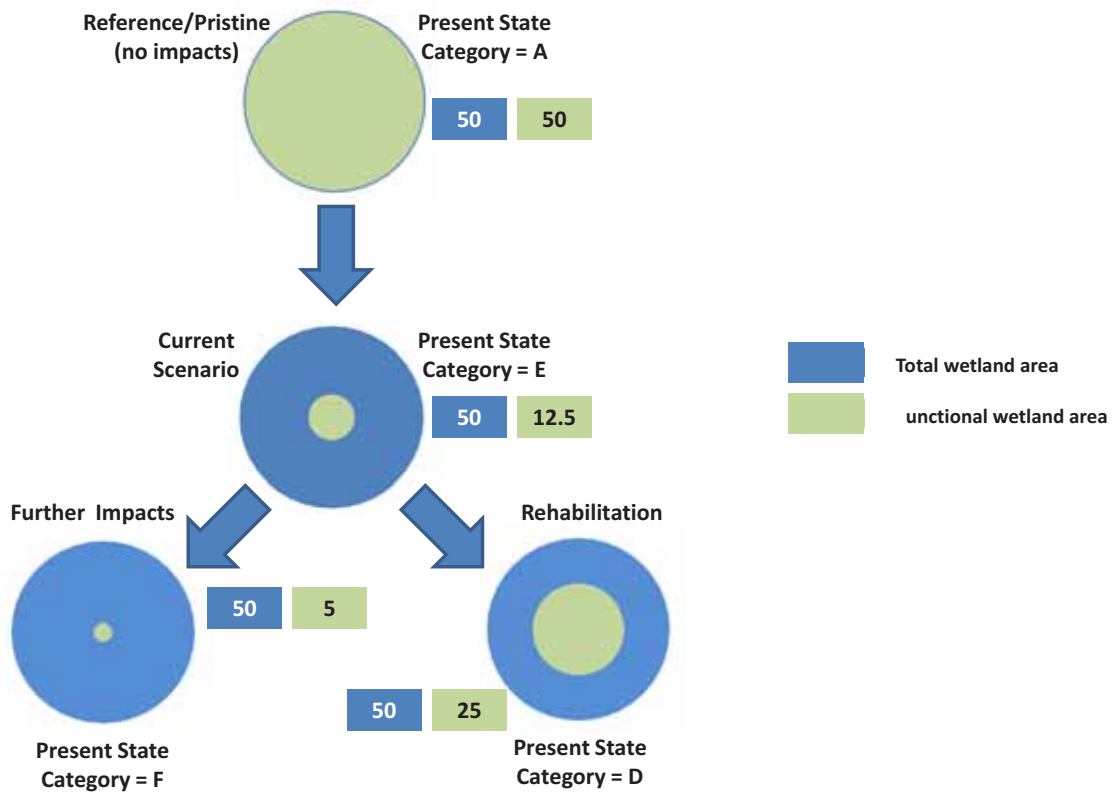
Impact Category	Description	Impact Score Range (0-10)	Present State Category
None	Unmodified, natural.	0-0.9	A
Small	Largely natural with few modifications. A slight change in ecosystem processes is discernible and a small loss of natural habitats and biota may have taken place.	1-1.9	B
Moderate	Moderately modified. A moderate change in ecosystem processes and loss of natural habitats has taken place but the natural habitat remains predominantly intact.	2-3.9	C
Large	Largely modified. A large change in ecosystem processes and loss of natural habitat and biota has occurred.	4-5.9	D
Serious	The change in ecosystem processes and loss of natural habitat and biota is great but some remaining natural habitat features are still recognizable.	6-7.9	E
Critical	Modifications have reached a critical level and the ecosystem processes have been modified completely with an almost complete loss of natural habitat and biota.	8-10	F

The scores for hydrology, geomorphology and vegetation were simplified into a composite impact score, using the predetermined ratio of 3:2:2 (MacFarlane *et al.*, 2007) respectively for the three components. The composite impact score was used to derive a health score that then provided the basis for the calculation of hectare equivalents (also referred to as functional area), which can be described as the health of a wetland expressed as an area. Cowden & Kotze (2009) make use of a simple example to explain the concept of hectare equivalents conceptually illustrated in **Box 4-1**.

Box 4-1. Example of the use of hectare equivalents to represent changes in wetland health.

The assessment of wetland health is based on comparisons to a reference state *i.e.* where the wetland’s health is unmodified and the functional area of wetland is equivalent to the full extent of the system. For example, if the health of a 50ha wetland is 100% (*Present State Category=A*) this equates to 50 hectare equivalents. In many instances the current scenario for a particular system reflects some form of historical degradation. If the abovementioned wetland was *seriously* degraded, the health would be reduced from the reference state to 25% (*reflecting a wetland health score of 2.5*); a drop in hectare equivalents from 50 to 12.5 (50ha x 0.25) hectare equivalents would be recorded. The following would therefore be expected if the wetland in the above scenario was subject to the following two future options:

- a) Further degradation of the wetland linked to development, with the system’s health being further reduced to 10% would result in a drop in hectare equivalents to 5 hectare equivalents; and
- b) Rehabilitation of the wetland habitat, with the system’s health being increased to 50% would result in a gain in hectare equivalents to 25 hectare equivalents.



NOTE:

The sizes of the circles are directly related to the extent of wetland habitat and functional wetland area in the landscape

4.2.Rehabilitation planning

A rehabilitation plan was compiled to achieve desired levels of functioning and integrity within the wetland habitat. The compilation of the rehabilitation plan was based on a site visit by the relevant specialists, including:

- A wetland specialist responsible for highlighting those problems identified as undermining the hydrological, geomorphic and vegetation integrity of the wetland habitat within the site and providing a rehabilitation strategy and objectives to achieve improvements in system functioning and integrity; and
- An environmental/soil conservation engineer responsible for identifying appropriate earthen, gabion and/or concrete interventions to achieve the rehabilitation objectives outlined by the ecologist.

4.3.Specification of management and maintenance requirements

Based on the assessment of the wetland area and the objectives of the rehabilitation, medium to long-term management guidelines have been included in this document to assist in maintaining the desired levels of ecosystem integrity and functioning.

4.4.Alien invasive plant clearing

As a component of the study, the alien invasive plant species within the riparian habitat, including buffer zones, and the wetland habitat were identified and appropriate clearing techniques specified. The planning of the alien plant clearing operations included the specification and scheduling of follow-up operations within these areas.

5. ASSUMPTIONS AND LIMITATIONS

Studies that focus on the potential impacts of a proposed development rely on various assumptions, with the following assumptions being made during the assessment of these particular wetland systems:

- The reference benchmark vegetation of the wetlands onsite is considered to be predominantly KwaZulu-Natal Sandstone Sourveld (SVs5) (Mucina and Rutherford, 2006), and sedge meadow.
- The bioregion is considered to be Sub-Escarpment Savanna (Nel *et al.*, 2011), which has been classified as being 'critically endangered'.
- The extent of wetlands as determined in the delineation undertaken by LRI in 2007 was used to inform the rehabilitation planning within the study site.
- The proposed development layout (**Figure 1-2**) would retain approximately 5.06 ha of the 6.76 ha of wetland habitat. The area of wetland habitat impacted by the development is based on the afore-mentioned layout, which further informed the rehabilitation plan.
- The proposed rehabilitation of the wetland systems is based on the HGM units' current state and integrity. Should implementation of the proposed rehabilitation plan be delayed for an extended period, GroundTruth cannot be held responsible should the proposed rehabilitation interventions no longer be suitable / appropriate as a result in changes in the systems' integrity, e.g. incision of channels, erosion.
- The rehabilitation of the wetland ecosystems will take place prior to or in conjunction with the construction of the proposed development, ensuring the systems are afforded an opportunity to stabilise prior to the completion of the construction.
- The stormwater management for the proposed development does not directly discharge into the wetland habitat, as appropriate attenuation facilities will be placed within the open space areas adjacent to the wetlands. Should the direct discharge of stormwater into the wetland habitat be required, additional rehabilitation structures in the wetlands may have to be prescribed.
- The discharge of stormwater from the proposed development will be controlled by means of attenuation and energy dissipating structures located within the proposed development layout. The management of stormwater will be outlined in a formal stormwater management plan, to ensure there is no threat to the integrity of the wetland systems. Should stormwater discharge be uncontrolled, additional rehabilitation interventions to protect the receiving wetlands would need to be prescribed.
- An alien invasive plant control programme would be implemented across the entire site and levels of alien invasive plants would be maintained at low levels within the site.
- It is assumed that re-vegetation of the wetland systems will include the active planting of a suitable mix of wetland plant species to promote functioning and biodiversity, in addition to the recommended methods described in the rehabilitation plan.
- The recovery of the vegetation on the site (under anticipated rehabilitated conditions) is expected to follow a pattern of succession from more terrestrial species to a more perennial, stable wetland plant community. For this reason a lag period of two to three years was adopted to illustrate the medium term impacts on vegetation

following the hypothetical rehabilitation of the site. In this instance the proactive management of the system would facilitate the emergence of near-natural plant communities sooner than the time required for these communities to establish under natural conditions.

- It was assumed that under the hypothetical rehabilitated scenario the rehabilitation outlined in subsequent sections of this report would be implemented in accordance with the specifications.
- Monitoring of the wetland rehabilitation and management will be undertaken to provide assurance that the mitigation of the development's impacts has been achieved in the long-term.

Limitations and uncertainties often exist within the approaches and techniques used to assess the condition of natural systems, with the following limitations applying to the studies undertaken for this report:

- The extent of the wetland habitat and thus focus of the rehabilitation plan is based on the supplied wetland coverage (LRI, 2007).
- Rehabilitation efforts were limited to the wetland HGM units within Site 2.
- The soils and vegetation in the site have been highly disturbed by agricultural activities; *inter alia* ploughing and road networks. These activities will have to be suitably addressed, and thus the majority of the systems will require earthworks to be undertaken to re-establish the wetland habitat.
- It should be noted that this report describes the mitigation of impacts associated with the development using hectare equivalents. Whilst mitigation may be best practice within an international context, the implementation of such activities in South Africa is limited and various approaches and techniques may be considered appropriate to validate that "no-net-loss" is evident within the region.
- The assessment techniques used in this study were developed relatively recently and in some instances, such as highly modified/transformed systems, they may have shortfalls. These techniques, however, have been compiled based on international best practice to apply to South African conditions, undergoing a peer review process during their development. These assessment techniques should therefore be seen as the most appropriate tools for wetland assessments at this time.
- Estimated costs of the wetland rehabilitation have not been supplied as the desired approach to the rehabilitation has not been confirmed, *i.e.* whether the wetland rehabilitation would be implemented as a social responsibility project within THD, incorporating job creation, or implemented by commercial contractors.

6. STUDY RESULTS

The results of the assessment of post-development wetland functioning and condition (Present Ecological State), compared to the current scenario, are outlined in the following sections.

6.1.1. Wetland ecological functioning

The general features of the HGM units were assessed in terms of the ecosystem functioning at a landscape level for post-development scenario and compared to the current scenario (GroundTruth, 2013). The score for each ecosystem service represents the likely extent to which that benefit is being supplied by the specific wetland and was interpreted based on the following rating outlined by Kotze *et al.* (2007):

- <0.5 Low
- 0.5-1.2 Moderately low
- 1.3-2.0 Intermediate
- 2.1-2.8 Moderately high
- >2.8 High

6.1.1.1. Wetland ecological functioning

Current scenario

GroundTruth (2013) recorded values for the ecosystems services for the current scenario at a **Moderately High** level (**Figure 6-1, Figure 6-2 and Table 6-1**). The HGM units within the development site are considered to be important in terms of enhancing water quality within the landscape and biodiversity maintenance (GroundTruth, 2013).

Post-development scenario

The post-development assessment of the ecological functioning of the two HGM units recorded values at a **Moderately High** level (**Figure 6-1, Figure 6-2 and Table 6-1**). The HGM units will be providing ecosystem services associated with enhancing water quality within the landscape. These systems will be more effective in providing these ecosystems services, in comparison to their current state where the opportunity to provide these services is greater than the effectiveness. The level of integrity particularly relating to biodiversity maintenance is anticipated to improve, as the systems will comprise indigenous wetland vegetation in comparison to sugarcane and/or alien vegetation with limited indigenous wetland vegetation. The systems' increased level of biodiversity will provide improved wetland habitat within the landscape, which is particularly important when considering the nature of the NFEPA classification of the Wekeweke Stream. The systems' provision of direct benefits and services will still be limited due to the nature of the development and controlled access.

HGM Unit 1

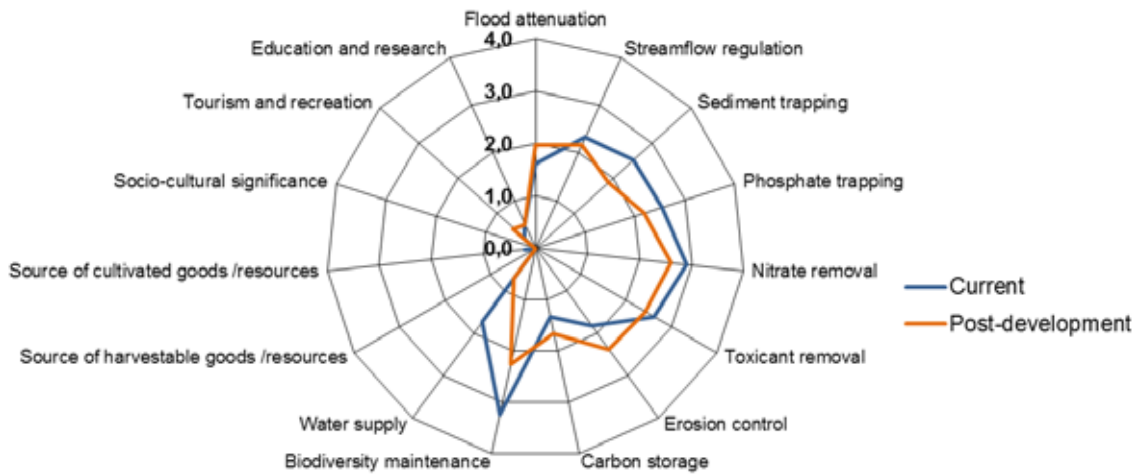


Figure 6-1 Graphic representation of the HGM unit 1's current and post-development ecosystem services

HGM Unit 2

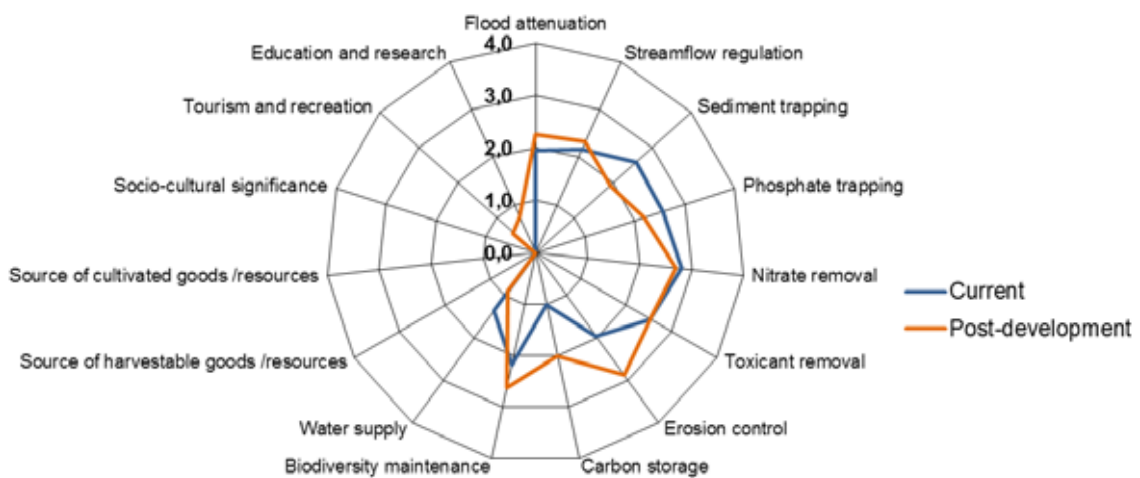


Figure 6-2 Graphic representation of the HGM unit 2's current and post-development ecosystem services

Table 6-1 Summary of current Ecosystem Services Scores² for HGM unit 2

Ecosystem Services	Current scenario		Post-development scenario	
	HGM Unit 1 ³	HGM Unit 2 ³	HGM Unit 1	HGM Unit 2
Flood attenuation	1.6	2.1	2.0	2.2
Score for effectiveness:	1.4	1.7	2.2	2.3
Score for opportunity:	1.8	2.5	1.8	2.2
Stream flow regulation	2.3	2.2	2.2	2.3
Sediment trapping	2.5	2.9	1.9	1.9
Score for effectiveness:	1.7	1.9	1.1	1.2
Score for opportunity:	3.3	4.0	2.7	2.7
Phosphate trapping	2.5	3.2	2.2	2.2
Score for effectiveness:	2.4	2.5	3.0	3.0
Score for opportunity:	2.7	4.0	1.3	1.3
Nitrate removal	2.9	3.3	2.6	2.7
Score for effectiveness:	2.8	2.6	3.2	3.4
Score for opportunity:	3.0	4.0	2.0	2.0
Toxicant removal	2.6	3.2	2.4	2.5
Score for effectiveness:	2.5	2.4	2.8	3.0
Score for opportunity:	2.7	4.0	2.0	2.0
Erosion control	1.8	2.2	2.4	2.8
Score for effectiveness:	2.0	1.8	3.0	3.5
Score for opportunity:	1.7	2.7	1.8	2.3
Carbon storage	1.3	1.0	1.7	2.0
Biodiversity maintenance	3.3	2.1	2.3	2.6
Score for noteworthiness:	3.3	2.3	2.3	2.3
Score for integrity:	1.9	2.0	2.3	3.0
Water supply	1.7	1.4	0.7	0.9
Source of harvestable goods /resources	0.0	0.0	0.0	0.0
Source of cultivated goods /resources	0.2	0.0	0.0	0.0
Socio-cultural significance	0.0	0.0	0.0	0.0
Tourism and recreation	0.3	0.1	0.6	0.6
Education and research	0.5	0.0	0.5	0.8

6.1.2. Wetland ecological integrity assessment

The ecological integrity assessment, also referred to as the assessment of Present Ecological State (PES), of the wetlands within the study site was undertaken for the current scenario (GroundTruth, 2013). These assessments informed the post-development assessment of the HGM units within the study site. The three biophysical drivers, namely hydrology, geomorphology and vegetation, were assessed for each of the scenarios. A summary of the results from the previous study conducted by GroundTruth (2013) and the assessment of the post-rehabilitation scenario are outlined below.

² Where applicable the scores for opportunity and effectiveness have been presented to ensure understanding of effectiveness of the system due to its modified state.

³ Results obtained from GroundTruth (2013)

The assessment of the wetland habitat under current conditions identified extensive modification, associated with agricultural activities within the wetland systems and the surrounding landscape. These activities have resulted in modifications to the systems' current ecological integrity (**Table 6-2**). In the post-development landscape, the integrity of the systems' are anticipated to improve as a result of the rehabilitation of these systems, which is evident in **Table 6-3**. The wetland habitats within the post-development landscape will also be protected by variable buffer zones, potentially improving the long-term integrity of the systems.

Table 6-2 Summary of the ecological integrity of the wetland for the current condition

		Hydrology	Geomorphology	Vegetation
HGM Unit 1	Impact Score	7.0	3.3	7.4
	PES Category	E	C	E
HGM Unit 2	Impact Score	7.0	1.3	9.0
	PES Category	E	B	F

Table 6-3 Summary of the ecological integrity of the wetland for the post-development scenario

		Hydrology	Geomorphology	Vegetation
HGM Unit 1	Impact Score	6.5	4.5	4.9
	PES Category	E	D	D
HGM Unit 2	Impact Score	3.0	2.1	2.0
	PES Category	C	C	C

6.1.3. Overall ecosystem integrity

The historical activities at each of the sites have resulted in modifications to the systems' ecological integrity. For ease of interpretation the scores for hydrology, geomorphology and vegetation are able to be simplified into a composite impact score, as outlined in Macfarlane *et al.* (2007). These scores were then used to derive hectare equivalents, which were used as the 'currency' for assessing the loss and gains in wetland integrity (Cowden & Kotze, 2009; Kotze & Ellery, 2009).

HGM Unit 1

Based on the current and post-development PES scores for HGM Unit 1, the approximately 4 ha of wetland habitat is considered to be currently equivalent to 1.62 ha of intact wetland habitat (**Table 6-4**). For the post-development scenario the wetland habitat will be considered to be equivalent to 1.86 ha (**Table 6-4**). The post-development scenario, with the adoption of mitigation activities, includes both positive and negative impacts on the identified wetland systems. The system's geomorphic integrity is reduced due to the infilling and deactivation of portions of the wetland, but the overall integrity is marginally improved by the improvements in the hydrological and vegetation components, relating to the anticipated

rehabilitation of the remaining wetland habitat. There is a gain of approximately 0.24 hectare equivalents (**Figure 6-3**).

Table 6-4 HGM Unit 1: Ecological integrity and hectare equivalents for the current and post-development scenario

HGM Unit 1		
Scenario	Current	Post-development
Overall Impact Score	6.06	5.47
Overall PES Category	E	D
Hectares of Wetland	4.11	2.41
Hectare Equivalents	1.62	1.86

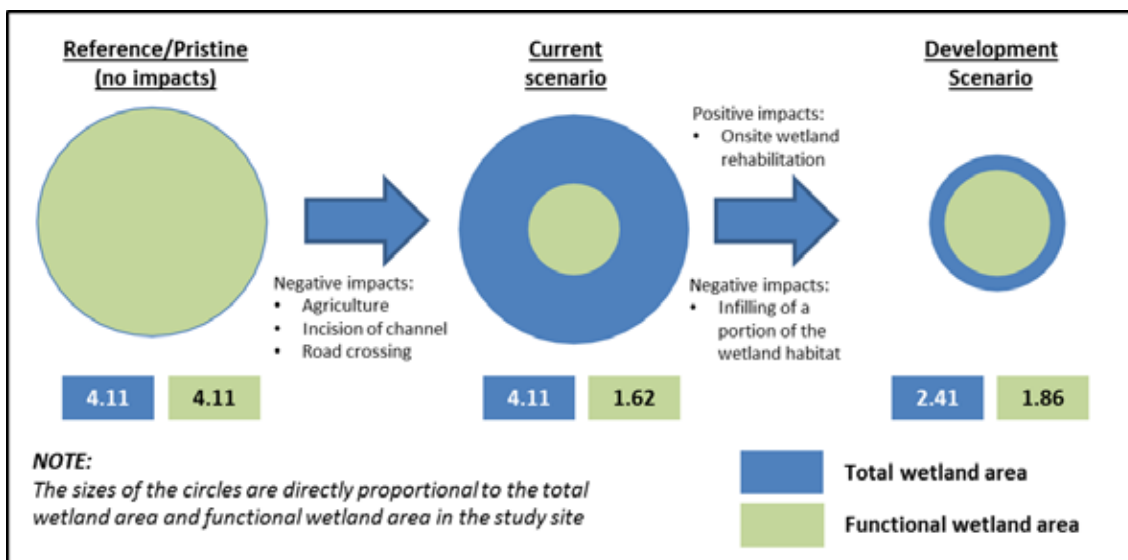


Figure 6-3 A graphic representation of HGM Unit 1, in terms of both spatial extent and functional area, comparing the reference conditions through to the development scenario.

HGM Unit 2

Based on the current and post-development PES scores for HGM Unit 2, the approximately 2.65 ha of wetland habitat is considered to be currently equivalent to 1.08 ha of intact wetland habitat (**Table 6-5**). For the post-development scenario the wetland habitat will be considered to be equivalent to 2.00 ha (**Table 6-5**). The post-development scenario, with the adoption of mitigation activities, includes both positive and negative impacts on the identified wetland systems. The system’s geomorphic integrity is reduced due to the hardened surfaces within the wetlands’ catchment, but the overall integrity is improved by the improvements in the hydrological and vegetative components, relating to the anticipated rehabilitation of the remaining wetland habitat. There is a gain of approximately 0.92 hectare equivalents (**Figure 6-4**).

Table 6-5 HGM Unit 2: Ecological integrity and hectare equivalents for the current scenario

HGM Unit 2		
Scenario	Current	Post-development
Overall Impact Score	5.94	2.46
Overall PES Category	E	C
Hectares of Wetland	2.65	2.65
Hectare Equivalents	1.08	2.00

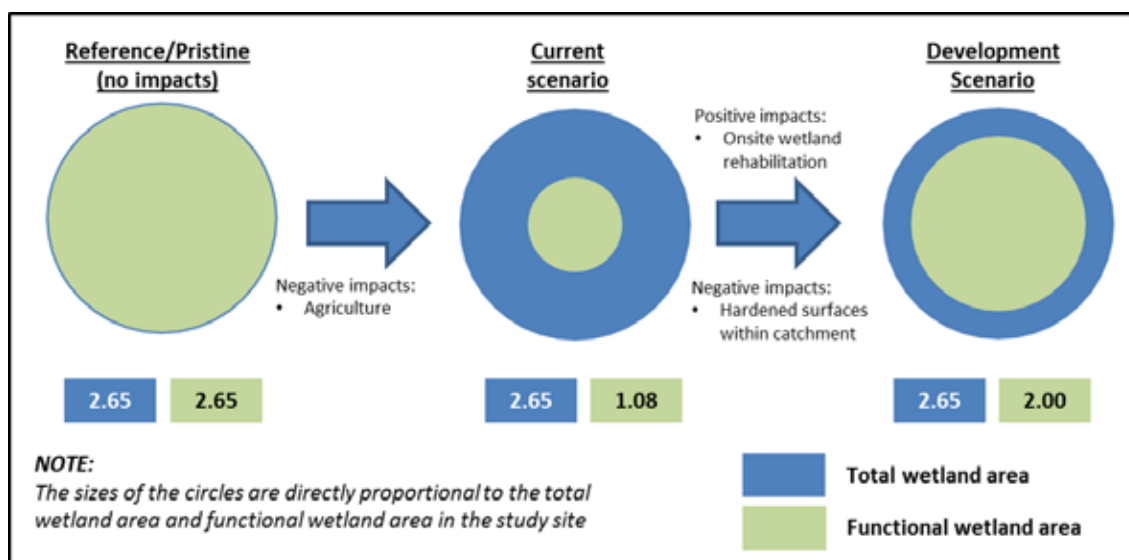


Figure 6-4 A graphic representation of HGM Unit 2, in terms of both spatial extent and functional area, comparing the reference conditions through to the development scenario.

7. WETLAND REHABILITATION

Wetland rehabilitation can be described as a process in which the causes and symptoms of the wetland degradation are addressed, ensuring the wetland integrity and functionality are maintained and/ or improved to a desired state. A proactive approach in terms of corrective interventions is recommended to address the impacts within the wetland systems. An example of rehabilitated wetland areas in an urban landscape is shown by **Figure 7-1**, with wetland habitat directly adjacent to a development, serving to provide regulatory benefits and services such as flood attenuation and water quality enhancement.



Figure 7-1 An example of rehabilitated wetland habitat in a landscape previously devoid of functional wetland habitat

The following section serves to describe the rehabilitation of the wetland ecosystems, including the objectives, which attempt to maximise the levels of ecosystem functioning and integrity.

7.1. Wetland problems

The biophysical drivers of the wetland have been significantly impacted upon by historical activities and will be further impacted upon by the proposed development, including *inter alia*:

- Sugarcane cultivation;
- Agricultural road network;
- Alteration to water flow in the catchments;
- Alien invasive vegetation;
- Artificial drainage channels; and
- Residential and business infrastructure.



Figure 7-2 Example of alien invasive vegetation within the systems

7.2. Wetland rehabilitation aims and objectives

With the implementation of wetland habitat rehabilitation it is important to set aims and objectives for the planned rehabilitation in accordance with WET-RehabPlan (Kotze *et al.*, 2009).

Aim:

Due to the high level of cumulative loss of freshwater ecosystems in this region, the aim of the rehabilitation is to offset the impacts of the potential development, enhancing the functioning and integrity of the remaining freshwater ecosystems within the development site.

Objective:

The primary objective of the freshwater ecosystem rehabilitation is to secure and improve the overall integrity of the systems, particularly focusing on:

- Improving the hydrological conditions and promoting obligate wetland species within the wetland habitat, facilitating the provision of higher levels of ecosystem service delivery within the landscape, specifically flood attenuation, sediment and nutrient trapping, and the maintenance of biodiversity; and

- Reducing the density of alien invasive plant species within the riparian habitat to maintenance levels by implementing alien plant clearing operations and active re-vegetation with appropriate riparian plant species.

Based on the nature of the stated objectives, the timeframes would be subject to a lag period, but ecosystem response would be expected within three years of the implementation of the rehabilitation activities.

7.3. Wetland rehabilitation strategy

Based on the observations of ecosystem functioning and integrity within the study site, these aspects of the wetland systems would improve with re-shaping by means of earthworks, and the incorporation of specific interventions to promote diffuse flows through the systems. It should be noted that the proposed interventions outlined below and in **Appendix 2**, assumed that appropriate attenuation facilities will be incorporated within the post-development landscape. Should these attenuation structures not be included in the proposed development layout, additional erosion control measures will have to be included in the rehabilitation of the wetlands to ensure the functioning and integrity of the systems' are retained in the long-term. The rehabilitation activities would adopt the following approaches to restoring functioning and integrity:

Interventions:

- Structural interventions to promote diffuse flow across the wetland systems;
- Earthworks would be implemented to reshape the wetland habitat;
- Water retention within the wetlands will be promoted through the construction of gabion cut-off walls or concrete weirs. Sediment fences and/or diversion berms will further assist in directing the flows of water, in addition to protecting the systems from scour during the establishment of vegetation.
- The outflow from the wetland systems into the riparian habitats will be via concrete/gabion drop-inlet structures ensuring the safe entry of water into the downstream systems.
- The deactivation of the agricultural road network within the wetland systems and their buffer zones, reducing impacts of altered flows through and into the systems.
- The placement of biodegradable stabilizer fabric, in this instance 'Bio-jute', to protect the soil surface, in those systems and buffer areas with steep topography, reducing the risk of surface soil erosion.



Figure 7-3 An example of the proposed change in hydrological regime following rehabilitation

Re-vegetation and planting:

- The re-vegetation of the wetland systems will make use of local indigenous wetland plants and grass seed mixtures, to encourage the establishment of vegetation from seeds.
- Where practical, the existing wetland vegetation will be removed in sods and replanted as soon as possible.
- The re-vegetation of the riparian habitat, with appropriate indigenous tree species is also recommended.



Figure 7-4 An example of active re-vegetation of wetland habitat

Alien invasive plant control in the freshwater ecosystems:

- Where possible, plants will be pulled out by hand or suitable mechanical means as this is the preferred method within freshwater ecosystems.
- Larger (taller than 1.2m) plants will be cut off at ground level and the stump treated with a suitable selective herbicide. The brush will be removed to the local municipal refuse site.
- Where possible the use of herbicide in the freshwater ecosystems will be avoided but re-growth would need to be sprayed. A selective herbicide which does not kill grass but is effective on alien invasive shrub/tree species should be used as it has less residual than alternate herbicides.
- Following alien plant clearing operations, bare and disturbed areas are to be planted with a local indigenous grass seed mixture.
- It is recommended that three follow-up operations be carried out, to assist in reducing alien invasive plant densities to maintenance levels.
- The maintenance of the alien invasive plant species must be carried out indefinitely, ensuring the functionality and integrity of the systems are maintained at a desired level.

Timing:

- The rehabilitation work would be carried out in winter (June-August) when the area is driest.
- Ideally, the rehabilitation of the freshwater ecosystems will take place prior to or in conjunction with the construction of the proposed development, ensuring the systems are afforded an opportunity to stabilise prior to the completion of the construction.
- Where possible, the rehabilitation should make use of machinery, preferably a tracked bulldozer or excavator, to carry out the required earthworks. This would ensure that rehabilitation is implemented quickly minimising the amount of time that the wetland soil is exposed.

7.4.Wetland Rehabilitation Interventions

The planning of the rehabilitation interventions was carried out in conjunction with the wetland specialist and the proposed interventions were specified to achieve the objectives set out by the wetland specialist, which included:

- Deactivation of the drainage networks within the wetland;
- Deactivation/removal of the road network within the wetlands;
- Removal of road crossings;
- Deactivate headcut erosion;
- Deactivation of incised channels within the wetland;
- Eradication of alien invasive vegetation and sugarcane; and
- Re-vegetation of the wetland habitat and buffers with appropriate indigenous species.

The rationale for the selection of interventions to implement the described rehabilitation strategy has been included in this section. The proposed interventions consist of:

- Backfilling of drains,
- Construction of gabion cut-off wall;
- Construction of two concrete weirs;
- Construction of a concrete drop-inlet structure;
- Deactivation of the road network within the wetland systems and adjacent buffer area.

An overview of the interventions within the proposed development site is shown in **Figure 7-5** and **7-6**.

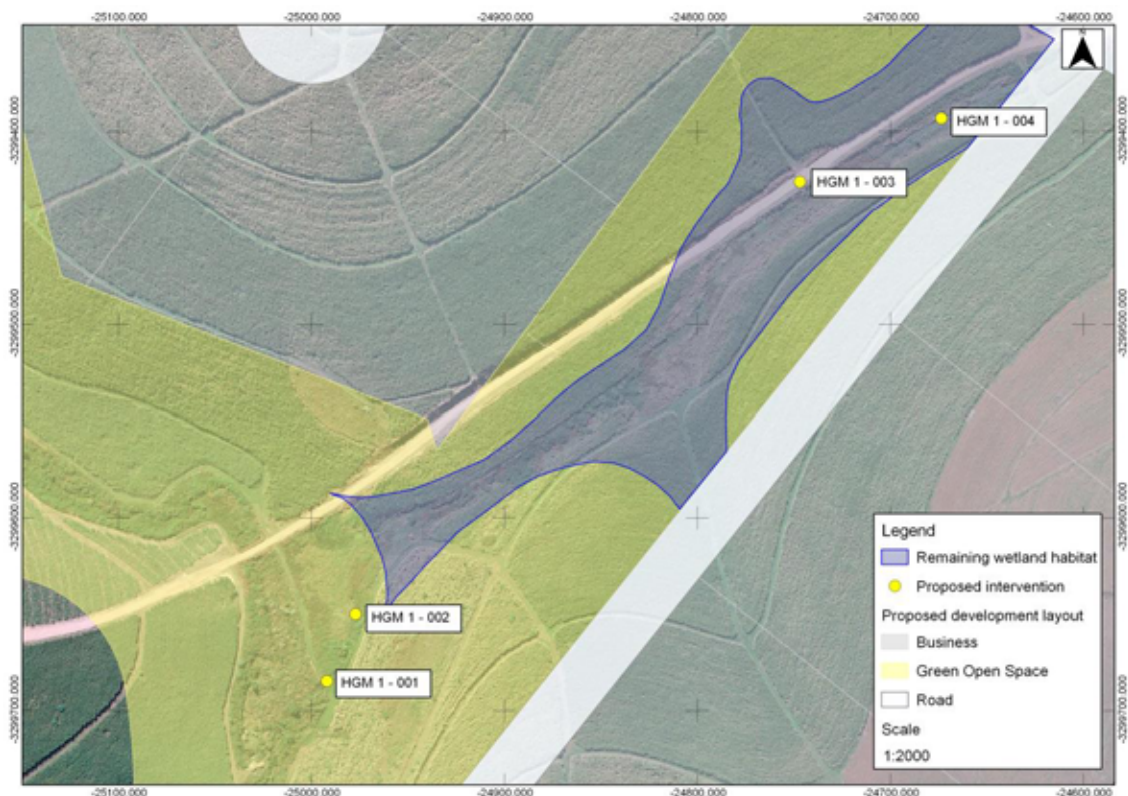


Figure 7-5 Overview of the location of the proposed interventions for HGM Unit 1



Figure 7-6 Overview of the location of the proposed interventions for HGM Unit 2

The following considerations were given when specifying the rehabilitation interventions in the project area:

7.4.1. Earthworks

The earthworks required for both of the HGM units are described below. Details on the proposed interventions are contained within **Appendix 2**.

7.4.1.1. Backfilling drain and / or channel

The centre-line drain within the wetland system is channelling the flows through and out of the wetland habitat (**Figure 7-7**). It is proposed that the drains (HGM 1 -004; HGM 2 - 003) and the channel (HGM 2 - 002) be deactivated by backfilling the drains/channel to ensure the flows in the wetlands are spread across the valley bottoms. Additional material may need to be imported from an approved location if sufficient material is not available *in situ*.



Figure 7-7 Example of a central drain channelling flows through the wetland habitat

7.4.1.2. *Deactivation of agricultural road network*

All stretches of the existing agricultural road network (**Figure 7-8**) within the wetland systems and their associated buffer zones must be deactivated. The deactivation of the roads can take place simultaneously with deactivation of the drain/channel, maximising the use of the earth moving machinery within the wetlands and reducing the rehabilitation period and thus the duration of time that the wetlands are exposed to the risk of erosion. The removal of the road networks will improve the hydrological conditions within the wetlands. Should the removal of any of the roads crossing a stream, drain or channel, potentially negatively impact the system, an appropriate intervention may be required. This can only be appropriately assessed and addressed during the implementation phase.



Figure 7-8 Example of an agricultural road within the wetland habitat

7.4.1.3. *Sediment fences and / or 'Bio-jute'*

The placement of sediment fences and/or 'Bio-jute' within newly worked areas is a prerequisite. The wetland systems and associated buffer zones will be barren following the proposed earthworks, and therefore, to avoid the loss of topsoil and decrease the chances of wind and water erosion, sediment fences must be placed across exposed areas of the systems. In steeper landscapes 'Bio-jute' will be required, to retain the soils within the systems, and to reduce the risk of sedimentation of the downstream riparian habitat (**Figure 7-9**).



Figure 7-9 An example of the use of 'Bio-jute' in a newly worked area

7.4.2. *Structural Intervention types*

Numerous structural intervention types have been recommended for the rehabilitation of the wetland systems. The proposed intervention types are briefly described below. Details on the proposed interventions are contained within **Appendix 2**.

7.4.2.1. *Concrete weir*

The interventions are intended to raise the water level within the channel, and as a result increase the frequency of overbank topping. In addition, these structures are also aimed at stabilising identified headcut erosion (HGM 1 – 002; HGM 2 -001) within the systems. These structures will assist in improving the hydrology and consequently the wetland vegetation in the systems. In addition, the concrete drop inlet weir (HGM 1 – 001) aims at controlling the entry of water into the Wekeweke River particularly during high flows, and to support the upstream concrete weir (HGM 1 - 002).



Figure 7-10 Example of a concrete weir

7.4.2.2. Gabion cut-off walls

Gabion cut-off walls (HGM 2 - 002) have been selected to provide structural support to the backfill material within the deactivated channel. These cut-off walls serve to 'lock' the fill material within the systems, reducing the risk of scour and therefore loss in functionality and integrity of the systems following completion of the wetland rehabilitation activities.

7.4.3. Re-vegetation of Wetland Habitat

Following the alien plant clearing and earthworks activities, re-vegetation of the wetland habitat would be required as follows:

- Portions of the wetland habitat should be re-seeded with wetland plants, assisting in the establishment of wetland habitat. An assortment of wetland seeds that are suited to temporary and seasonal wetness conditions should be sourced.
- Limited replanting of sods/plugs should be undertaken using plants sourced from the intact wetland fringes, but care should be taken to avoid planting *Typha capensis*, an invasive indigenous plant species.

7.4.4. Eradication of alien invasive plant species

Several alien plant species were identified particularly within the riparian area. The following alien invasive plants were identified on the site, but are not limited to, the following:

- *Rubus sp.* (Bramble)
- *Melia azedarach* (Syringa)
- *Solanum mauritianum* (Bugweed)
- *Lantana camara* (Tick berry)

The tree species must be felled, in accordance with the general approach adopted by the Working for Water programme. Due to the risk associated with the formation of debris dams following alien plant clearing operations within freshwater ecosystems, the clearing method adopted within the wetland and riparian habitat is described as 'Cut-and-Remove', a variation of the 'Cut Stump' treatment method, and includes the cutting down and removal of

all of the identified alien plants from the wetland and riparian habitat. The removed material would be cut into manageable lengths and stacked beyond the edge of a 20m buffer zone within each system. The stacked material can be burnt or removed to the local refuse site when construction activities commence. Care would need to be taken in selecting routes to be used for dragging the foliage out of the area to minimise damage to the site.

The implementation of the 'Cut Stump' operations would be carried out so as to ensure that the cut stumps are:

- 100mm or less from the ground surface;
- Cut level; and
- Treated adequately with the appropriate herbicide.

A selective herbicide suitable for stump treatment, such as Trimbrel, should be used to ensure that the existing grass plants are not impacted upon.

The alien invasive shrub species must be slashed and removed from site. Only in those cases of dense *Lantana camara* infestations, Access or Plenum 160 herbicide could be applied by means of foliar spraying. These herbicides are not appropriate for use on other alien invasive plant species as these are the only two registered herbicides for *Lantana camara* and have a residual impact.

NOTE:

- Certain herbicides, such as Roundup, Mamba and Chopper, should not be used onsite as they kill both trees and grass species, resulting in areas of exposed soil. This will allow for alien invasive plant species to re-invade the area.
- Any herbicide requiring diesel, such as Garlon, must not be used onsite due to the risks posed to the water resource.
- Brushoff herbicide is also not recommended as results are slow, making monitoring of the success of the spraying operation difficult.

Herbicides used onsite should be mixed with a dye, allowing for easy identification of treated stumps and plants, thus preventing the double spraying or non-treatment of any plants. In the use of selected herbicides onsite, the manufacturer's instructions should be followed. Local indigenous grass seeds should be applied to the disturbed/bare areas to promote the rapid establishment of cover.

7.4.5. Implementation Order

It should be noted that the implementation order of the proposed rehabilitation interventions is critical. The characteristics of the site and the problems identified within the wetlands necessitate that the rehabilitation be approached in a phased manner. It is therefore recommended that the following sequence is adopted for both of the HGM units.

- Phase 1 – Earthwork activities:
 - Fill in drains;
 - Fill in channel (HGM Unit 2);
 - Deactivate road network within the wetlands and buffer zones;
 - Re-shape wetland habitat; and
 - Placement of sediment fences and / or bio-jute (if required).
- Phase 2 – Construction of gabion cut-off walls.
- Phase 3 – Construction of concrete weirs (HGM 1 – 002; HGM 2 - 001) and concrete drop inlet weir (HGM 1 - 001);
- Phase 5 – Eradication of alien vegetation;
- Phase 6 – Re-vegetation of freshwater ecosystems;

8. WETLAND REHABILITATION MONITORING AND EVALUATION

The following wetland rehabilitation monitoring framework was developed in accordance with the principles outlined in WET-RehabEvaluate (Cowden & Kotze, 2009), with specific monitoring being recommended for the anticipated outputs and outcomes of the project. The monitoring includes the collection of baseline and routine monitoring information to enable the evaluation of the rehabilitation effectiveness three years (two growing seasons) after completion of the rehabilitation activities. It should be noted that the following recommended monitoring is considered to be the minimum level of monitoring required to show rehabilitation effectiveness, and additional monitoring may be required by the relevant authorities (e.g. water quality, water depth, vegetation composition)

8.1. Monitoring of Interventions

The assessment of the structural integrity would be undertaken based on the specific criteria outlined in **Table 8-1** and focus on the long-term stability of the interventions and the likelihood of achieving the stated objectives. This assessment would serve to identify weaknesses or strengths of the selected interventions within the wetlands.

Table 8-1 Criteria used for monitoring structural integrity of wetland rehabilitation interventions

(Modified from Cowden & Kotze, 2009, p47).

Concrete work	Earthen structures/works:
<ul style="list-style-type: none"> • Dimensions according to specifications • Authorised deviations from plan • Evidence of sliding, tilting, slumping or overturning of the structure • Cracks evident within the structure • Scouring downstream • Evidence of outflanking • Concrete mixed to specifications • Undercutting due to poor founding • Adequate downstream shoulder walls, including cut-off walls 	<ul style="list-style-type: none"> • Dimensions according to specifications • Authorised deviations from plan • Excessive settling of the soil (>10% of overall height) • Erosion on the bank • Establishment of vegetative cover • Scouring downstream • Evidence of outflanking • Adequate compaction of soil

8.2. Fixed point photography/site photographs

Pre- and post-implementation photographs must be recorded for the wetland. These should be collected in the form of Fixed Point Photographs, as outlined in WET-RehabEvaluate, to allow repeated monitoring to be undertaken.

8.3. Wetland assessments

The ecological integrity and functioning of the wetland should be monitored with:

- WET-Health and WET-EcoServices, collected during the planning process being used as the baseline; and
- Subsequent monitoring being undertaken approximately three years (growing seasons) after completion of the rehabilitation strategy using WET-Health

assessments, to provide the final assessment of the benefits and effectiveness of the rehabilitation activities.

8.4. Wetland rehabilitation effectiveness

All of the above-mentioned monitoring should be used to inform the evaluation of the effectiveness of the wetland rehabilitation. This would be undertaken once the required monitoring information has been collected, three years following the completion of the wetland rehabilitation activities.

9. WETLAND MAINTENANCE

The management of the surrounding landscape would need to be modified to promote the functioning and integrity of the wetland habitat. The management recommendations within the following section have been derived from Ezemvelo KZN Wildlife's Biodiversity Stewardship programme guideline documents (Kotze & Cowden, 2009; Camp & McCulloch, 2009).

9.1. Management

The above-mentioned guidelines include recommendations for burning and grazing, within wetland habitat. Wetlands rely on the removal of excess plant material at regular intervals to promote plant productivity and maintain habitat value for wetland dependent species (Kotze & Cowden, 2009). Generally, the removal of plant material is achieved using fire. Kotze & Cowden (2009) recommend the following approach to the regular defoliation of the wetland area, either by burning or brush-cutting in this instance:

- The defoliation of the wetland areas would need to be integrated into the overall plan, including the adjacent buffer zones;
- The interval for defoliation of the wetland areas should be every 2 to 3 years;
- The wetland area should be divided into two blocks, with each half being cleared alternately, leaving remnant habitat in the area for wetland dependant species;
- The implementation of burns should:
 - Promote cool, patchy burns by burning when relative humidity is high and air temperatures are low;
 - Promote head fires (with the wind) rather than back burns (against the wind); and
 - Be delayed to the following year if the conditions are not favourable in terms of achieving the abovementioned criteria.

9.2. Maintenance

The maintenance requirements within the wetland and buffer zone would focus on the specified rehabilitation interventions and would be highlighted by the monitoring of the structural interventions at outlined in **Section 8.1**.

9.3. Control of emerging alien invasive plant species

In addition to the initial clearing of the identified alien invasive plant species, follow-up activities are required to eradicate emerging seedlings or coppicing stumps. The implementation of follow-up operations is essential in order to reach maintenance levels in terms of controlling alien invasive plants within the systems.

It is recommended that the follow-up alien plant clearing activities adopt the following approach:

- Manual activities, including hand-pulling of seedlings, to reduce the risk of the translocation of herbicide;
- Frequent follow-up operations, with four operations being undertaken per year, and
- Where necessary foliar application of herbicide to emerging coppice.

Due to the rapid re-growth of species such as *Lantana camara*, at least four follow up operations should be planned for during the first two years after the initial clearing. These will mainly be during the spring and summer months.

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11. APPENDICES

Appendix 1:

Hydrogeomorphic (HGM) types (as per Kotze et al., 2007, p 27)

Hydrogeomorphic types	Description	Source of water maintaining the wetland ¹	
		Surface	Sub-surface
<p>Floodplain</p> 	Valley-bottom areas with a well defined stream channel, gently sloped and characterized by floodplain features such as oxbow depressions and natural levees and the alluvial (by water) transport and deposition of sediment, usually leading to a net accumulation of sediment. Water inputs from main channel (when channel banks overflow) and from adjacent slopes.	***	*
<p>Valley-bottom, channelled</p> 	Valley-bottom areas with a well defined stream channel but lacking characteristic floodplain features. May be gently sloped and characterized by the net accumulation of alluvial deposits or may have steeper slopes and be characterized by the net loss of sediment. Water inputs from main channel (when channel banks overflow) and from adjacent slopes.	***	*/***
<p>Valley-bottom, unchannelled</p> 	Valley-bottom areas with no clearly defined stream channel, usually gently sloped and characterized by alluvial sediment deposition, generally leading to a net accumulation of sediment. Water inputs mainly from channel entering the wetland and also from adjacent slopes.	***	*/***
<p>Hillslope seepage linked to a stream</p> 	Slopes on hillsides, which are characterized by the colluvial (transported by gravity) movement of materials. Water inputs are mainly from sub-surface flow and outflow is usually via a well defined stream channel connecting the area directly to a stream channel.	*	***
<p>Isolated Hillslope seepage</p> 	Slopes on hillsides, which are characterized by the colluvial (transported by gravity) movement of materials. Water inputs mainly from sub-surface flow and outflow either very limited or through diffuse sub-surface and/or surface flow but with no direct surface water connection to a stream channel	*	***
<p>Depression (includes Pans)</p> 	A basin shaped area with a closed elevation contour that allows for the accumulation of surface water (i.e. it is inward draining). It may also receive sub-surface water. An outlet is usually absent, and therefore this type is usually isolated from the stream channel network	*/***	*/***

Appendix 2 – Proposed Intervention Details

Appendix 2: Proposed Intervention Details

Details regarding the proposed interventions are contained in this Appendix.

Intervention HGM1-001

Intervention Type	Concrete Drop Inlet Weir and Earthen berms
Rehabilitation Objective	Control the entry of water into the main channel during high flows and support the upstream intervention
Latitude	-29° 48' 55.64"
Longitude	30° 44' 29.25"
Designed By	Trevor Pike
Date	April 2013
Alternatives Considered	Gabions were not considered as an impermeable intervention was required
Design Drawings	GTW280/HGM1-001/1, 2, 3



Figure A2- 1: Location of proposed concrete weir at the base of the system

Bill of Quantities

Item	Unit	Quantity
Earthworks	m ³	73
Concrete (25MPa)	m ³	33.4
Ref 888 reinforcing steel	m ²	13
Ref 772 reinforcing steel	m ²	24
Earthen berms	m ³	8.25

Construction Notes

The following construction notes apply to the proposed intervention:

- The contractor is to inform the engineer if site conditions have changed and that the intervention no longer adequately addresses the problem;
- The base of the excavation is to be well compacted and any poor material removed and replaced with gravel or suitable material prior to construction;
- Backfill material to be compacted in 150mm layers;
- Backfill material to be moistened to optimum moisture content to ensure optimum compaction;
- Excess earth material to be compacted on the upstream side of the spillway;
- Vegetation and topsoil is to be removed from the footprint of the earthen berm prior to its construction. The topsoil is to be spread and vegetation replanted on the berm (vegetation is to be watered after removal and re-planting);
- Topsoil material is not to be used for the construction of the berm;
- Three diversion berms are to be constructed at 45 degrees across the feature diverting water towards the structure on the right hand bank as indicated on the intervention drawings; and
- The existing road crossing and pipes are to be removed to accommodate the proposed intervention

Intervention HGM1-002

Intervention Type	Concrete Weir
Rehabilitation Objective	Deactivate headcut erosion
Latitude	-29° 48' 54.51"
Longitude	30° 44' 29.80"
Designed By	Trevor Pike
Date	April 2013
Alternatives Considered	Gabions were not considered as an impermeable intervention was required
Design Drawings	GTW280/HGM1-002/1, 2



Figure A2-2: Location of proposed concrete weir at the headcut

Bill of Quantities

Item	Unit	Quantity
Earthworks*	m ³	95
Backfill with competent material*	m ³	36
Concrete (25MPa)	m ³	19.4
Ref 888 reinforcing steel	m ²	16
Ref 655 reinforcing steel	m ²	23
Earthen berms	m ³	4

*A 1.5m deep excavation for the foundation was assumed for the calculation of the quantities. Final depth to be confirmed on site at time of implementation.

Construction Notes

The following construction notes apply to the proposed intervention:

- The contractor is to inform the engineer if site conditions have changed and that the intervention no longer adequately addresses the problem;
- The spillway of the structure should be built to the same level as the top of the headcut;
- The poor material at the foundation of the intervention is to be removed and replaced with suitable material prior to construction e.g.G3;
- The base of the excavation is to be well compacted;
- Backfill material to be compacted in 150mm layers;
- Backfill material to be moistened to optimum moisture content to ensure optimum compaction;

Intervention HGM1-003

Intervention Type	Excavation
Rehabilitation Objective	Removal of road from the wetland
Latitude	-29° 48' 47.26"
Longitude	30° 44' 38.39"
Designed By	Trevor Pike
Date	April 2013
Alternatives Considered	n/a
Design Drawings	n/a



Figure A2-3: Road to be removed from within the wetland and side drain to be deactivated

Bill of Quantities

Item	Unit	Quantity
Removal of existing gravel road from wetland	m ³	880
Removal of pipe culvert and backfilling drain with material excavated from road	sum	1

Construction Notes

The following construction notes apply to the removal of the existing road:

- The road is to be excavated to the natural ground level
- The existing side drain is to be deactivated by means of backfilling with material in 150mm layers. The final 150mm of material is to consist of topsoil material
- The existing culvert is to be removed and backfilled to the natural ground level

Intervention HGM1-004

Intervention Type	Earthworks
Rehabilitation Objective	Deactivate the drain and promote diffuse flows across the wetland
Latitude	-29° 48' 46.19"
Longitude	30° 44' 41.13"
Designed By	Trevor Pike
Date	April 2013
Alternatives Considered	n/a
Design Drawings	n/a

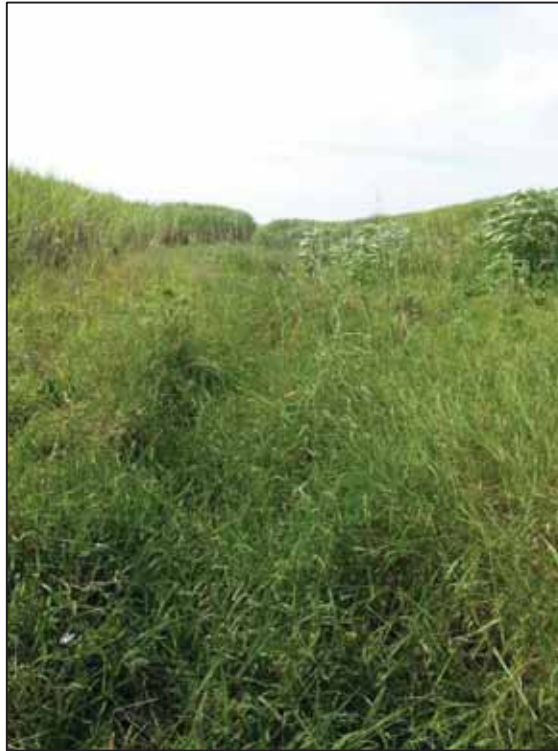


Figure A2- 4: Drain to be deactivated

Bill of Quantities

Item	Unit	Quantity
Backfilling of drain utilising material from adjacent berm	m ³	105

Construction Notes

The following construction notes apply to the backfilling of the drain:

- All vegetation is to be removed from the footprint prior to the backfilling of the drains. Suitable wetland vegetation should be removed in sods and replaced on completion of the backfilling process.
- Backfill material should be compacted in 150mm layers
- The final level should be the same as the surrounding ground level

Intervention HGM2-001

Intervention Type	Concrete weir
Rehabilitation Objective	Promote diffuse flows in the upstream wetland, deactivate the upstream channel and support the backfill material
Latitude	-29° 48' 41.7"
Longitude	30° 44' 20.39"
Designed By	Trevor Pike
Date	April 2013
Alternatives Considered	Gabions were not considered as an impermeable intervention was required
Design Drawings	GTW280/HGM2-001/1, 2



Figure A2-5: Location of proposed concrete weir

Bill of Quantities

Item	Unit	Quantity
Earthworks	m ³	59
Concrete (25MPa)	m ³	20
Ref 888 reinforcing steel	m ²	12
Ref 395 reinforcing steel	m ²	49
Earthen berms	m ³	9

General Notes

The following construction notes apply to the proposed intervention:

- The contractor is to inform the engineer if site conditions have changed and that the intervention no longer adequately addresses the problem;
- The base of the excavation is to be well compacted and any poor material removed and replaced with gravel or suitable material prior to construction;
- Backfill material to be compacted in 150mm layers;
- Backfill material to be moistened to optimum moisture content to ensure optimum compaction;
- Excess earth material to be compacted on the upstream side of the spillway.

Intervention HGM2-002

Intervention Type	Earthworks and gabion cut off walls
Rehabilitation Objective	Deactivate a channel and promote diffuse flows within the wetland upstream of intervention HGM2-001
Latitude	-29° 48' 39.87"
Longitude	30° 44' 19.64"
Designed By	Trevor Pike
Date	April 2013
Alternatives Considered	n/a
Design Drawings	GTW280/HGM2-002

Bill of Quantities

Item	Unit	Quantity
Earthworks (backfilling with imported material)	m ³	160
Gabion cut off walls	m ³	24
AG200 geofabric material or equivalent	m ²	86

Construction Notes

The following construction notes apply to the proposed intervention:

- The drain on the upstream side of proposed intervention HGM2-001 is to be backfilled with imported material for a length of approximately 140m;
- All backfill material is to be compacted in 150mm layers;
- The top 150mm layer of backfill material is to consist of topsoil material to promote the establishment of vegetation;
- Three 8x1x1 gabion cut off walls are to be constructed at even intervals (approximately 35m apart) to support the backfill material. The top of the gabion baskets are to be built level with the natural ground level and must not interfere with the natural flow of surface water;
- Geofabric material is to be placed on all contact surfaces between the gabions and the soil *i.e.* all sides apart from the top;

Intervention HGM2-003

Intervention Type	Earthworks
Rehabilitation Objective	Removal of old road crossing and deactivation of drains
Latitude	-29° 48' 35.53"
Longitude	30° 44' 21.99"
Designed By	Trevor Pike
Date	April 2013
Alternatives Considered	n/a
Design Drawings	n/a

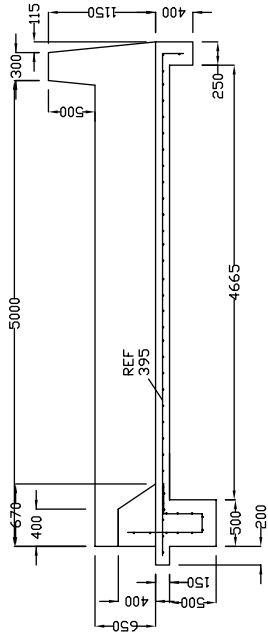
Bill of Quantities

Item	Unit	Quantity
Earthworks (excavation of existing crossing)	m ³	45
Earthworks (backfilling of existing drains)	m ³	45
Removal of vegetation in sods and replanting on completion of backfilling	m ²	90

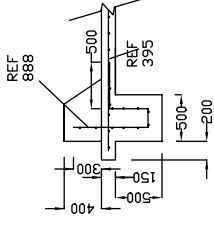
Construction Notes

The following construction notes apply to the proposed activities:

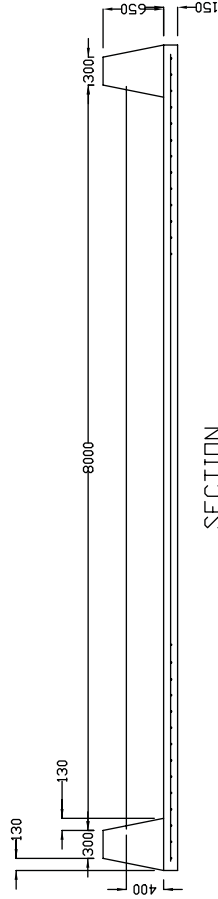
- The existing road and culverts are to be removed to promote diffuse flows;
- Material from the excavation may be utilised as backfill for the upstream and downstream drains;
- Backfill material is to be compacted in 150mm layers;
- Vegetation in the drain on the upstream side of the road crossing should be removed in sods prior to the drain being backfilled, and replanted on completion of the backfill process.



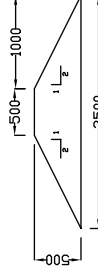
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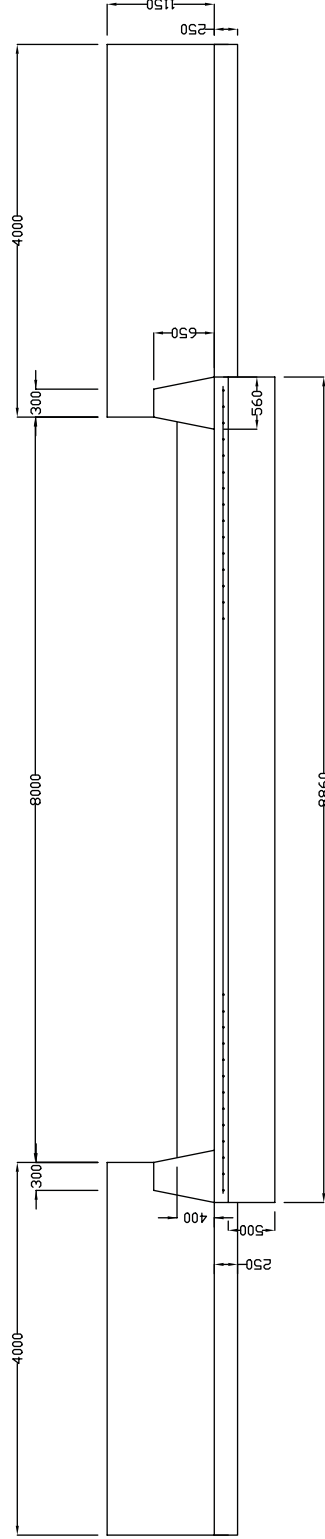


SECTION D-D

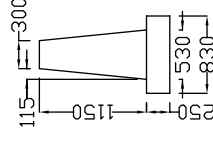


SECTION E-E

EARTHEN BERM



SECTION B-B



SECTION C-C

PROJECT:

SHONGWENI WETLAND REHABILITATION

DRAWING DESCRIPTION:

CONCRETE DROP INLET STRUCTURE

DATE:

05/06/2013

SCALE:

NOT TO SCALE

DESIGNED BY:

T. PIKE

DRAWN BY:

S. GREGSON

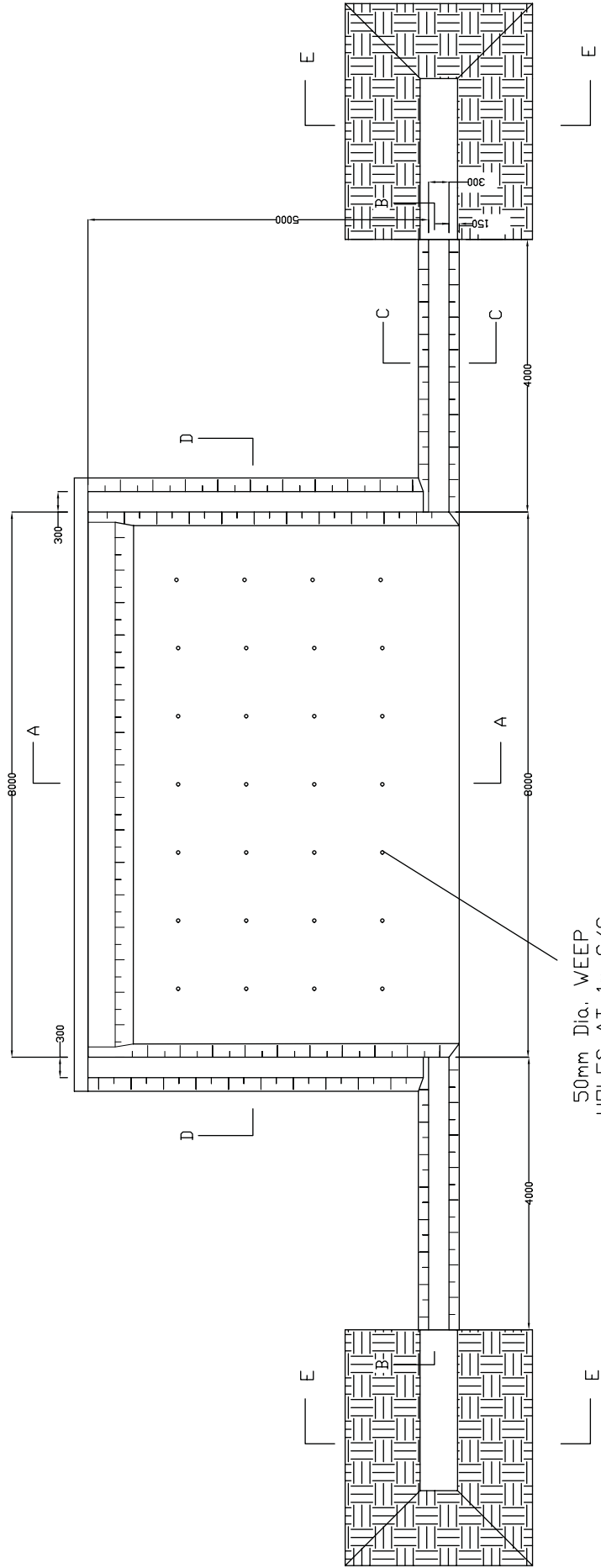
DRAWING No.:

GTW280/HGM2-001/2

DRAWING CHECKED:

T. PIKE



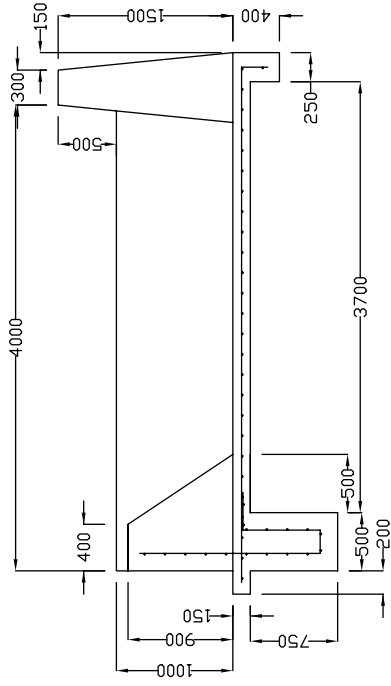


PLAN
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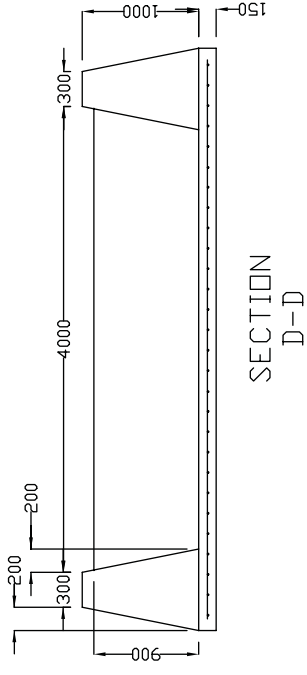
50mm Dia. WEEP
HOLES AT 1m C/C

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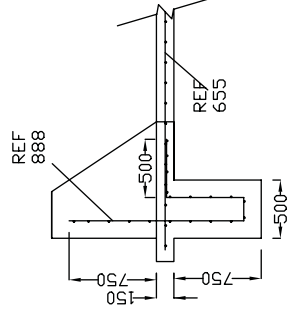
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DRAWING DESCRIPTION:	CONCRETE DROP INLET STRUCTURE		
DATE:	05/06/2013	SCALE:	NOT TO SCALE
DESIGNED BY:	T. PIKE	DRAWN BY:	S. GREGGSON
DRAWING No.:	GTW280/HGM2-001/1		
DRAWING CHECKED:	T. PIKE		



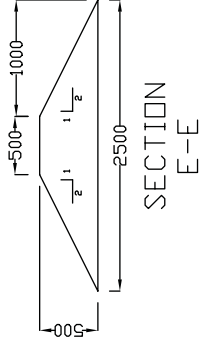
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A-A



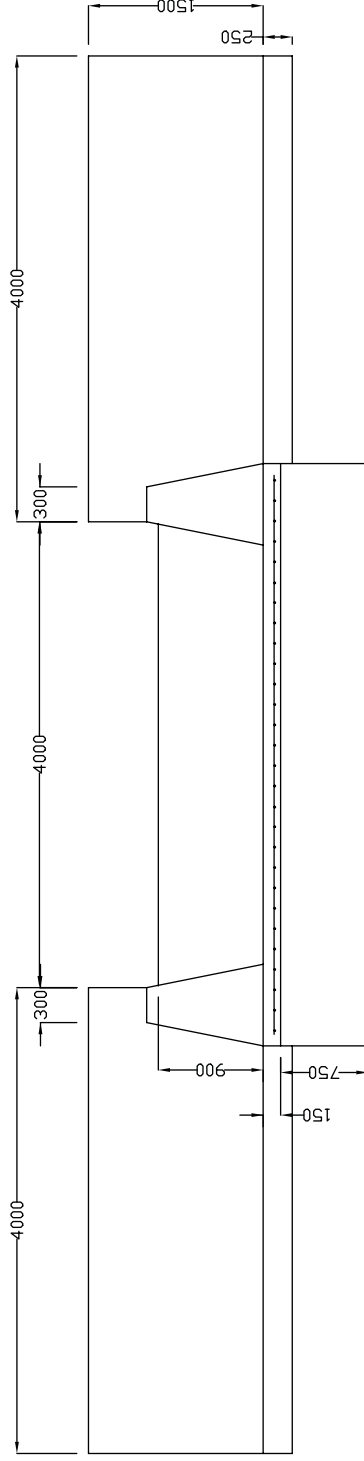
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D-D



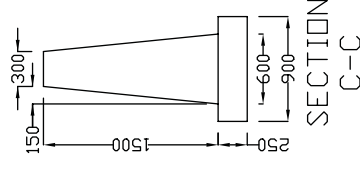
HEEL
DETAIL



SECTION
E-E



SECTION
B-B



SECTION
C-C



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PROJECT: SHONGWENI WETLAND REHABILITATION
DRAWING DESCRIPTION: CONCRETE DROP INLET STRUCTURE

DATE: 05/06/2013

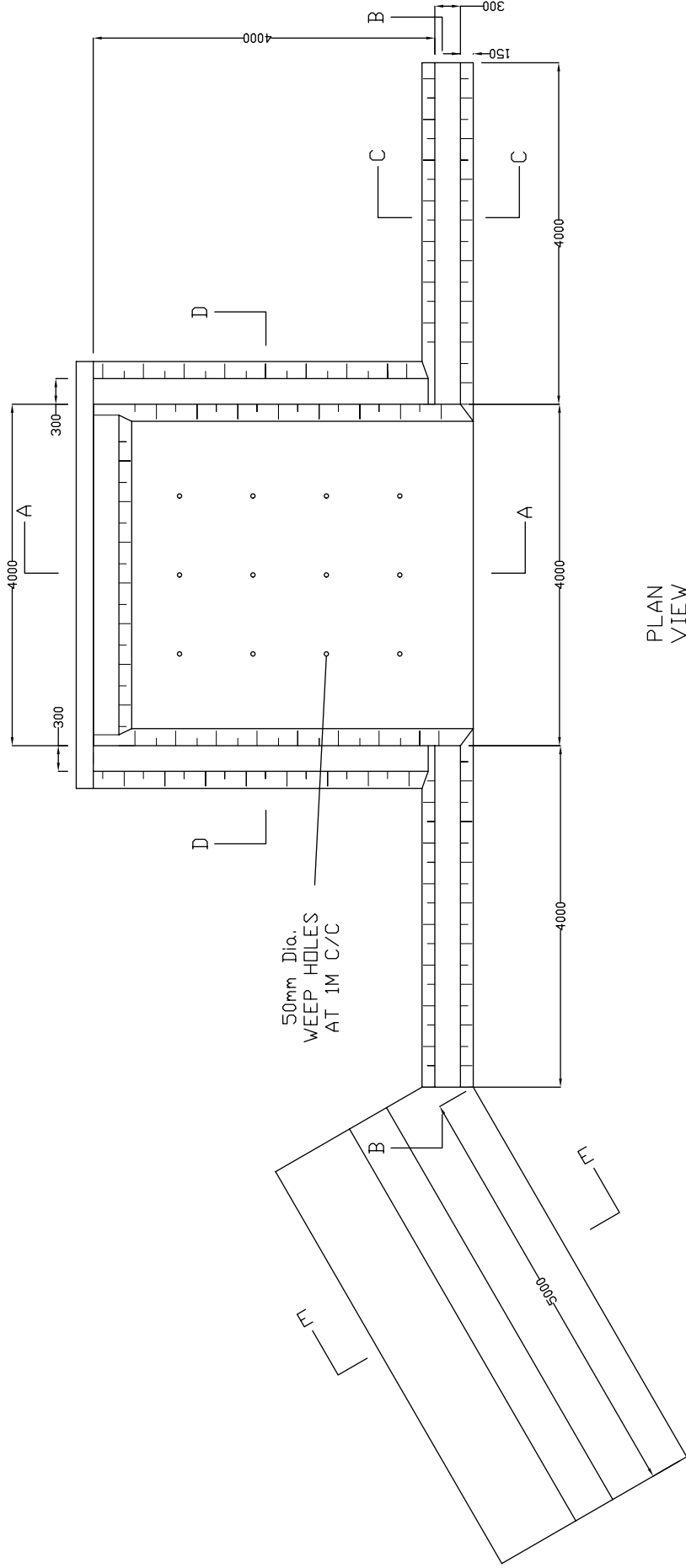
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DRAWN BY: S. GREGGSON

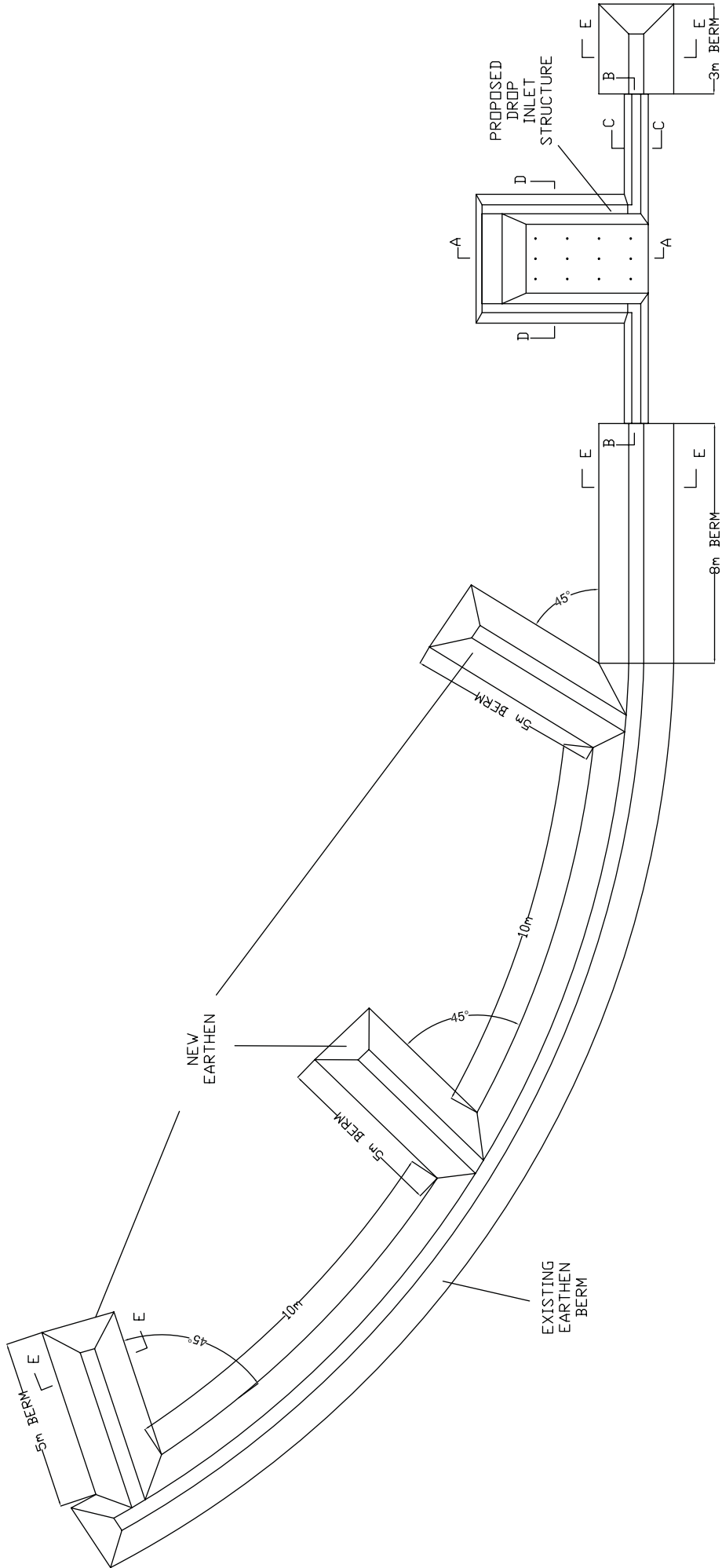
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DRAWING CHECKED: T. PIKE




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DRAWING DESCRIPTION: CONCRETE DROP INLET STRUCTURE
DATE: 05/06/2013
SCALE: NOT TO SCALE
DESIGNED BY: T. PIKE
DRAWN BY: S. GREGGSON
DRAWING NO.: GTW280/HGM1-002/1
DRAWING CHECKED: T. PIKE

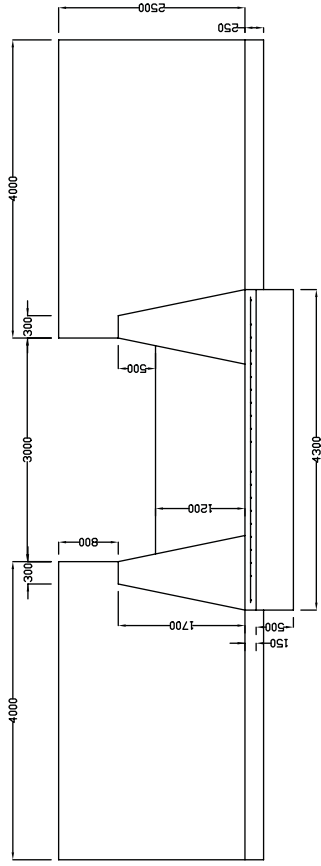


SITE LAYOUT

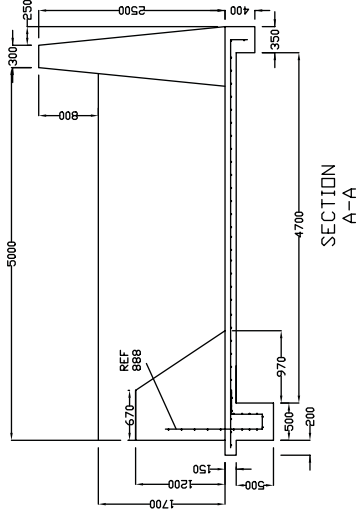


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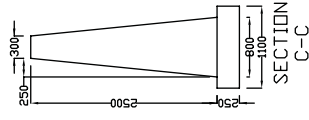
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 DATE: 05/06/2013
 SCALE: NOT TO SCALE
 DESIGNED BY: T. PIKE
 DRAWN BY: S. GREGGSON
 DRAWING CHECKED: T. PIKE



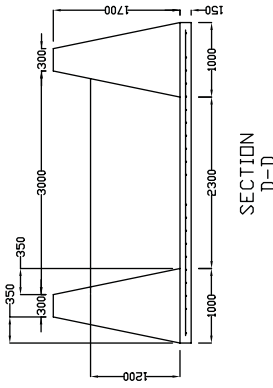
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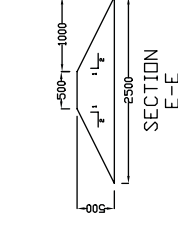
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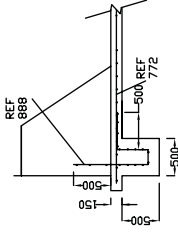
SECTION C-C



SECTION D-D



SECTION E-E



HEEL DETAIL



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PROJECT: SHONGWENI WETLAND REHABILITATION
DRAWING DESCRIPTION: CONCRETE DROP INLET STRUCTURE

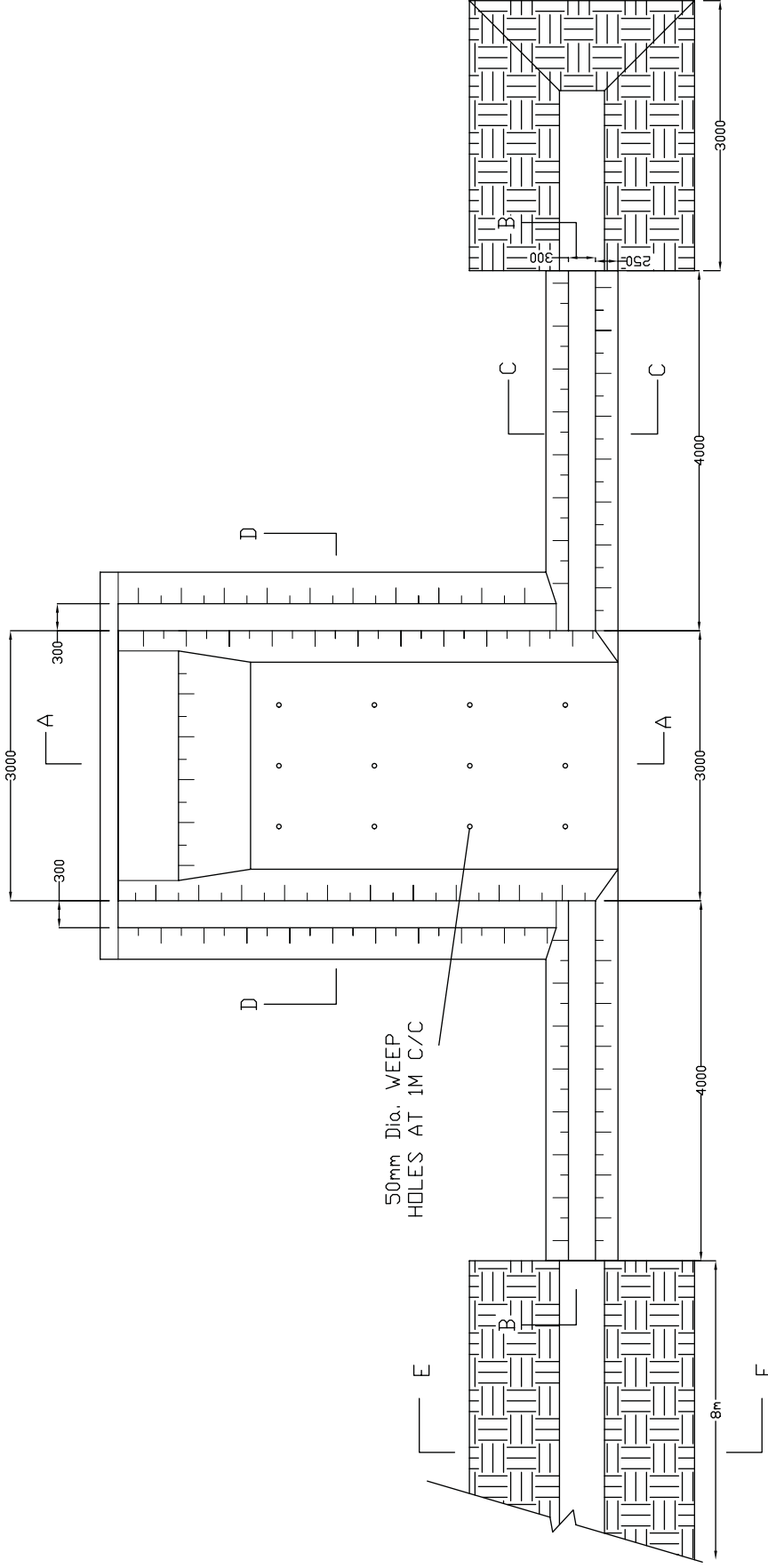
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DESIGNED BY: T. PIKE

DRAWN BY: S. GREGGSON

DRAWING NO.: GTW280/HGM1-001/2

DRAWING CHECKED: T. PIKE

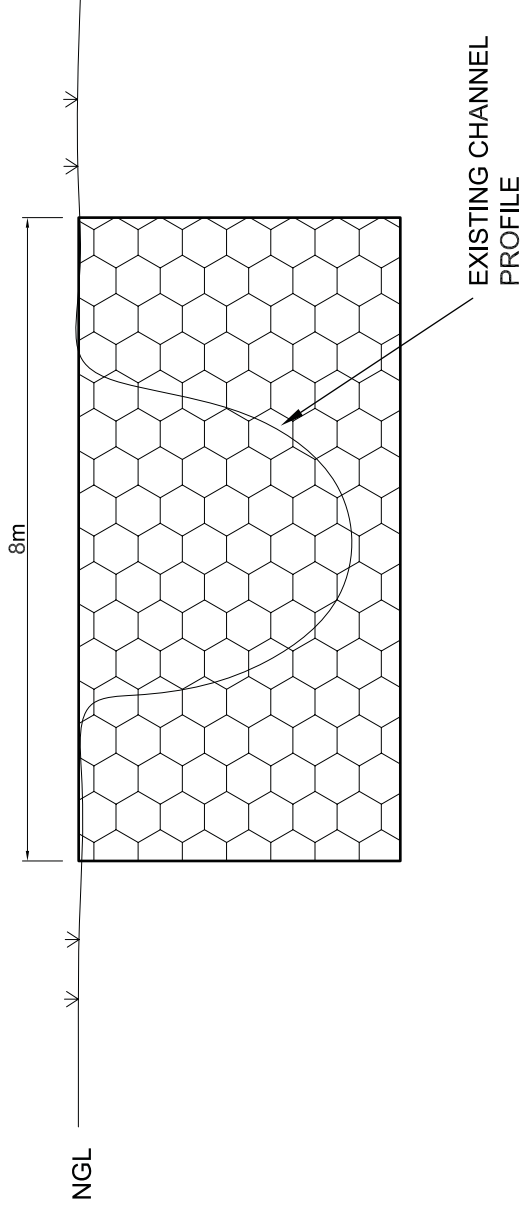


PLAN VIEW

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PROJECT: SHONGWENI WETLAND REHABILITATION
 DRAWING DESCRIPTION: CONCRETE DROP INLET STRUCTURE
 DATE: 05/06/2013
 SCALE: NOT TO SCALE

DESIGNED BY: T. PIKE
 DRAWN BY: S. GREGGSON
 DRAWING No.: GTW280/HGM1-001/1
 DRAWING CHECKED: T. PIKE



SECTION

NOTES:

- 1) BACKFILL MATERIAL COMPACTED IN 150mm LAYERS
- 2) THICKNESS OF GABION WALL TO BE 1m
- 3) GABION WALLS TO BE BUILT LEVEL WITH THE NATURAL GROUND LEVEL (NGL)
- 4) AG200 GEOTEXTILE TO BE INSTALLED ON ALL GABION/SOIL CONTACT SURFACES

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PROJECT:		SHONGWENI WETLAND REHABILITATION	
DRAWING DESCRIPTION:		DETAIL OF GABION CUT-OFF WALL	
DATE:	07/06/2013	SCALE:	NOT TO SCALE
DESIGNED BY:	T. PIKE	DRAWN BY:	V. BRUMMER
DRAWING No.:	GTW280/HGM2-002	DRAWING CHECKED:	
		T. PIKE	

APPENDIX 16: PUBLIC PARTICIPATION

APPENDIX 16.1: PROOF OF NOTIFICATION

Trenell Sewraj

From: KSEMS [kerry.seppings@telkomsa.net]
Sent: 06 February 2012 12:18 PM
To: pillayr@dwa.gov.za; rajay.ramgoolam@eskom.co.za; vanrensburgd@durban.gov.za; andyb@kznwildlife.com; 'Phumelela Dlamini'; wisemanr@daff.gov.za; Carolyn Schwegman; gnoyce@zmail.co.za; HCLAWNMOWER@webstorm.co.za; julie.knatten@drummond.hk; McinnesA@durban.gov.za; lilian@conomirra.co.za; atcon@3i.co.za; dawsonap@telkomsa.net; colleen@worldonline.co.za; kayakc@worldonline.co.za; za_hillcrest@ldsmail.net; larry.vermaak@gmail.com
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012
Attachments: THD Notice of Application .pdf

Dear All

Please find attached a copy of the **Notice of Application for Environmental Authorisation** for the construction of a new regional retail and mixed use development at Shongweni including the upgrading of affected roads and service infrastructure.

Should you wish to receive information regarding the EIA process, please register as an I & AP.

Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



Kerry Seppings Environmental Management Specialists cc
4 Woodville Lane off Hawkstone Road, Summerveld, Assagay
Postal P.O. Box 396; Gillitts; 3603
Phone 031 7691578
Fax 031 7691579
Website www.ksems.co.za

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Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012
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Fax 031 7691579
Website www.ksems.co.za

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Please think of the environment before printing out this email.

Trenell Sewraj

From: KSEMS [kerry.seppings@telkomsa.net]
Sent: 06 February 2012 12:30 PM
To: deniseg@wol.co.za; bird@telkomsa.net; motprop@telkomsa.net
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE
DM/0003/2012
Attachments: THD Notice of Application .pdf
Categories: Red Category

Dear All

Please find attached a copy of the **Notice of Application for Environmental Authorisation** for the construction of a new regional retail and mixed use development at Shongweni including the upgrading of affected roads and service infrastructure.

Should you wish to receive information regarding the EIA process, please register as an I & AP.

Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



Kerry Seppings Environmental Management Specialists cc
4 Woodville Lane off Hawkstone Road, Summerveld, Assagay
Postal P.O. Box 396; Gillitts; 3603
Phone 031 7691578
Fax 031 7691579
Website www.ksems.co.za

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Trenell Sewraj

From: KSEMS [kerry.seppings@telkomsa.net]
Sent: 06 February 2012 01:33 PM
To: Derek Bird; roy.ryan@kzntransport.gov.za
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012
Attachments: THD Notice of Application .pdf

Dear All

Please find attached a copy of the **Notice of Application for Environmental Authorisation** for the construction of a new regional retail and mixed use development at Shongweni including the upgrading of affected roads and service infrastructure.

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Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



Kerry Seppings Environmental Management Specialists cc
4 Woodville Lane off Hawkstone Road, Summerveld, Assagay
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Please think of the environment before printing out this email.

Trenell Sewraj

From: KSEMS [kerry.seppings@telkomsa.net]
Sent: 07 February 2012 03:42 PM
To: landmanc@nra.co.za; archaeology@amafapmb.co.za; Bernadetp@amafapmb.co.za; wayleaves2@telkom.co.za; ltbird@eastcoast.co.za; vah@mweb.co.za; melissavr@hps.co.za; info@cvmakeovers.co.za; grant@propco.co.za; nac@pmmmbtrust.org; hazyview@netactive.co.za; forbesi@eastcoast.co.za; jaandka@telkomsa.net; kross@dbnmail.com; john@rjbprojects.co.za; lachlan.nicholson@expressmedia.co.za
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012
Attachments: THD Notice of Application .pdf

Dear All

Please find attached a copy of the **Notice of Application for Environmental Authorisation** for the construction of a new regional retail and mixed use development at Shongweni including the upgrading of affected roads and service infrastructure.

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Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



Kerry Seppings Environmental Management Specialists cc
4 Woodville Lane off Hawkstone Road, Summerveld, Assagay
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Trenell Sewraj

From: KSEMS [kerry.seppings@telkomsa.net]
Sent: 07 February 2012 03:54 PM
To: kross@dbnmail.co.za; forbesj@eastcoast.co.za; vivienne@plantationsestate.co.za
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE
DM/0003/2012
Attachments: THD Notice of Application .pdf

Dear All

Please find attached a copy of the **Notice of Application for Environmental Authorisation** for the construction of a new regional retail and mixed use development at Shongweni including the upgrading of affected roads and service infrastructure.

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Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



Kerry Seppings Environmental Management Specialists cc
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Trenell Sewraj

From: KSEMS [kerry.seppings@telkomsa.net]
Sent: 09 February 2012 10:31 AM
To: Johnst_G@mtn.co.za; phewarz@hotmail.com; sue.mbabala@gmail.com; itsmylife@telkomsa.net; anton@altix.co.za; ahay@coxyeats.co.za; info@meditateindurban.org; pam@compass.za.net
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012
Attachments: THD Notice of Application .pdf

Dear All

Please find attached a copy of the **Notice of Application for Environmental Authorisation** for the construction of a new regional retail and mixed use development at Shongweni including the upgrading of affected roads and service infrastructure.

Should you have any queries please feel free to contact us.

Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



Kerry Seppings Environmental Management Specialists cc
4 Woodville Lane off Hawkstone Road, Summerveld, Assagay
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Phone 031 7691578
Fax 031 7691579
Website www.ksems.co.za

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Trenell Sewraj

From: KSEMS [kerry.seppings@telkomsa.net]
Sent: 14 February 2012 03:37 PM
To: mggoldie@yebo.co.za; mjason@worldonline.co.za; mjason1972@gmail.com; nicholas@compass.za.net; john@justdone.co.za; jlb.comms@gmail.com
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012
Attachments: THD Notice of Application .pdf

Dear All

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Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



Kerry Seppings Environmental Management Specialists cc
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Trenell Sewraj

From: KSEMS [kerry.seppings@telkomsa.net]
Sent: 20 February 2012 03:49 PM
To: kulshida@larsonfalconer.com; saf@letterhall.co.za; mary@netvendor.co.za; capelle@venturenet.co.za; glaret@gmail.com; karbod65@gmail.com
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012
Attachments: THD Notice of Application .pdf

Dear All

Please find attached a copy of the **Notice of Application for Environmental Authorisation** for the construction of a new regional retail and mixed use development at Shongweni including the upgrading of affected roads and service infrastructure.

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Trenell Sewraj
Junior Environmental Consultant



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Trenell Sewraj

From: KSEMS [kerry.seppings@telkomsa.net]
Sent: 20 February 2012 03:50 PM
To: saf@lesterhall.co.za
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE
DM/0003/2012
Attachments: THD Notice of Application .pdf

Dear All

Please find attached a copy of the **Notice of Application for Environmental Authorisation** for the construction of a new regional retail and mixed use development at Shongweni including the upgrading of affected roads and service infrastructure.

Should you wish to receive information regarding the EIA process, please register as an I & AP.

Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



Kerry Seppings Environmental Management Specialists cc
4 Woodville Lane off Hawkstone Road, Summerveld, Assagay
Postal P.O. Box 396; Gillitts; 3603
Phone 031 7691578
Fax 031 7691579
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Trenell Sewraj

From: KSEMS [kerry.seppings@telkomsa.net]
Sent: 20 February 2012 04:31 PM
To: Derek.robins@larsonfalconer.com
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012
Attachments: THD Notice of Application .pdf

Dear All

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Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



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Trenell Sewraj

From: KSEMS [kerry.seppings@telkomsa.net]
Sent: 21 February 2012 10:38 AM
To: judith@lester3.co.za
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE
DM/0003/2012
Attachments: THD Notice of Application .pdf

Dear All

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Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



Kerry Seppings Environmental Management Specialists cc
4 Woodville Lane off Hawkstone Road, Summerville, Assagay
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Trenell Sewraj

From: KSEMS [kerry.seppings@telkomsa.net]
Sent: 21 February 2012 10:40 AM
To: judith@3lester.co.za
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE
DM/0003/2012
Attachments: THD Notice of Application .pdf

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Junior Environmental Consultant



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Trenell Sewraj

From: KSEMS [kerry.seppings@telkomsa.net]
Sent: 22 February 2012 12:00 PM
To: john@waterfield.co.za; peter@evsolutions.biz
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE
DM/0003/2012
Attachments: THD Notice of Application .pdf

Dear All

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Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



Kerry Seppings Environmental Management Specialists cc
4 Woodville Lane off Hawkstone Road, Summerville, Assagay
Postal P.O. Box 396; Gillitts; 3603
Phone 031 7691578
Fax 031 7691579
Website www.ksems.co.za

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Distribution of documents

Notification of Application

Project Title

THD Shopping Mall

Orange - Must get copy

Pink - Must get copy of Report

Green - Get copy if registered

Blue - Newspapers, no copy

Contact	Name	Dept/ Business/ Private	Date sent	Sent by fax, e-mail, hand delivered notice or post?
Client	Rory Wilkinson	Department	06/02/2012	Email
DAEA	Lethiwe Mabanga	Department	06/02/2012	Email
DAFF	Wiseman Rozani	Department	06/02/2012	Email
DWA	Renelle Pillay	Department	06/02/2012	Email
Eskom	Rajay Ramgoolam	Department	06/02/2012	Email
KZN Wildlife	Andy Blackmore	Department	06/02/2012	Email
Municipal Department- eThekweni	Diane Van Rensburg	Department	06/02/2012	Email
KZN Transport	Roy Ryan	Department	06/02/2012	Email
SANRAL	Casper Landman	Department	06/02/2012	Email
AMAFA	Weziwe Tchabalala	Department	06/02/2012	Email
Telkom	SM Govinden	Department	06/02/2012	Email
MTN Tower	GARY JOHNSTON	Department	09/02/2012	Email
WESSA	Carolyn Schwegman	Department	06/02/2012	Email
Ward Councillor	Phewa Richard Zibani/ Philani Khezwa	Department	09/02/2012	Email
Ward Councillor	Gillian Noyce	Department	06/02/2012	Email
			06/02/2012	Email

Clifton Canyon Residents Association	Mr Brian von Sorgenfrei	Private	06/02/2012	Email
Private	Julie Knatten	Private	06/02/2012	Email
eThekwini	Chumisa Thengwa	Private	06/02/2012	Email
Ethekwini Evaluation	Rakesh Ramlugaan	Private	06/02/2012	Email
Private	Lillian Davis	Private	06/02/2012	Email
Ratepayers Association	Lilian Develing	Private	06/02/2012	Email
Envirowest	Allan Childs	Private	06/02/2012	Email
Company	Alan Dawson	Private	06/02/2012	Email
Dept/ Company/ Private	NAME	Private	06/02/2012	Email
Private	Colleen & Richard Whitton	Private	06/02/2012	Email
Private	Vanessa Holmwood	Private	06/02/2012	Email
Private	Lyris & Garith Hill	Private	06/02/2012	Email
Aintree Lane Complex	Maurice Morgan	Private	06/02/2012	Email
Highburry School	Melissa Van Rooyen	Private	06/02/2012	Email
CV Makeovers	A. Tigar	Private	06/02/2012	Email
Propco	Grant Mcleod	Private	06/02/2012	Email
Private	Denise Graham	Private	06/02/2012	Email
Private	Derek Bird	Private	06/02/2012	Email
Motprop	Ken Fann	Private	06/02/2012	Email
Private	Nora Choveaux	Private	07/02/2012	Email
Hazyview Farm	Keith Standeaven	Private	07/02/2012	Email
Private	John A Forbes	Private	07/02/2012	Email

Assagay Hotel	Cathy (Jake Jacobs)	Private	07/02/2012	Email
Private	Keith Roass	Private	07/02/2012	Email
Private	John Butler	Private	07/02/2012	Email
Private	Sue James	Private	09/02/2012	Email
Private	John Schimper	Private	09/02/2012	Email
Chairperson (Shongweni Club)	Anton Mostert	Private	09/02/2012	Email
Polo Pony Station	Eric	Private	14/03/2012	Fax
MalaMala Ranch	Liz Archibald	Private	06/02/2012	Email
Cox Yeats	Alastair Hay	Private	09/02/2012	Email
Mahasiddha Kadampa Buddhist	Kelsang Jampel	Private	09/02/2012	Email
Private	Pam Flanagan	Private	09/02/2012	Email
Compass Waste Services	Nicholas Hearn	Private	14/02/2012	Email
Private	John Dovey	Private	14/02/2012	Email
Private	Dave and Jo Sobey	Private	14/02/2012	Email
Private	MARK A JASON	Private	14/02/2012	Email
Net Vendor	Mary- Ann	Private	20/02/2012	Email
Private	Terry	Private	20/02/2012	Email
Private	Grant Laret	Private	20/02/2012	Email
Private	Karen and Cassian Bodley	Private	20/02/2012	Email
Waterfall and Link Hills	Derek Scott Robins	Private	20/02/2012	Email
ShoppoinG Centre	Sally Fletcher	Private	20/02/2012	Email
Private	Judith Mcdowell	Private	21/02/2012	Email
Private	Precious Smophe	Private		Fax
Waterfield Farm	John	Private	22/02/2012	Email
Waterfall Shopping Centre	Simon Pitcher	Private	23/02/2012	Email

Private	Naeem Jeewa	Private	23/02/2012	Email
Private	Sonya Keyser	Private	14/02/2012	Email

SIGNBOARDS USED IN NOTIFYING THE PUBLIC OF THE PROPOSED ACTIVITY (INCLUDING THE PIPELINE)



Figure 1: Signboards erected on 03 February 2012 along Kassier Road (Assagay Hotel in the background with Cliffdale Road to the left).



Figure 2: Signboards erected on 03 February 2012 along Kassier Road. This signboard was placed at the entrance of Site 1 (alternate site).



Figure 3: Signboards erected on 03 February 2012 on the corner of Cliffdale and Kassier Road.



Figure 4: Signboards erected on 16 October 2013 on Bowles Road.



Figure 5: Signboards erected on 16 October 2013 near the start of the proposed bulk water pipeline.



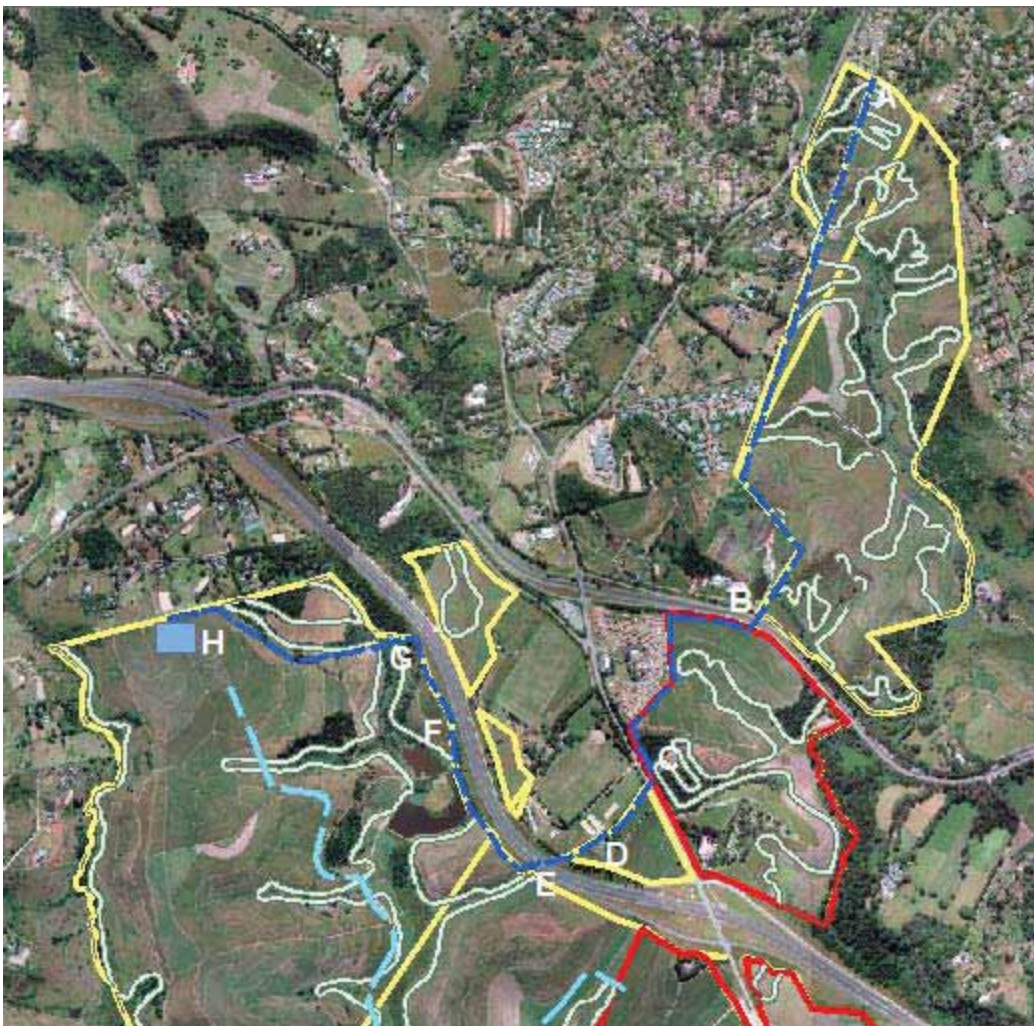
Figure 6: Notices placed in Highmead Estate post boxes on 16 October 2013. Highmead Estate lies adjacent to a portion of the proposed pipeline.

KSEMS

From: KSEMS <kerry.seppings@telkomsa.net>
Sent: 23 October 2013 12:27 PM
To: 'beachbibi@gmail.com'
Subject: THD Shongweni Bulk Water pipeline (DM/0003/2012)

Good Afternoon Mrs Renolds,

With reference to your telephone call earlier this week, please find below the proposed water pipeline in blue. Tongaat Hullet's land is outlined in yellow. The water reservoir is illustrated by the blue square. Trust this is a clearer map. I have however added you to the I & AP register so you will get more details on this proposal once they become available.



I have discussed a meeting opportunity with Kerry, who is open to hosting a meeting once the time period for registering as an interested and affected party (I & AP) has closed. I will therefore be in contact with you Monday next week regarding a meeting date/venue etc. to give new I & APs an outline of the proposed activity.

Kind Regards,

Stephanie Williams
Lead Environmental Scientist



Stephanie

From: Stephanie <stephanie.ksems@telkomsa.net>
Sent: 17 October 2013 01:29 PM
To: 'Barbara Martin'
Subject: RE: THD pipeline map

Tracking:	Recipient	Read
	'Barbara Martin'	Read: 2013-10-17 01:40 PM

Hi Barbara,

No problem.

Obtaining the environmental authorisation is one of the first stages of the development approval process and therefore it is difficult to estimate when construction will start. I do not however expect that it will begin within the next year or so.

Regards,
Stephanie

From: Barbara Martin [mailto:barbara@flexo-it.co.za]
Sent: 17 October 2013 10:47 AM
To: 'Stephanie'
Subject: RE: THD pipeline map

Thank you Stephanie

Perfect. Was just checking it wasn't coming thru our property, when they own all the property behind us.

The pipe line is obviously to feed the housing dev parallel to kassier rd. Any idea when that is going to start, so I can move 😊

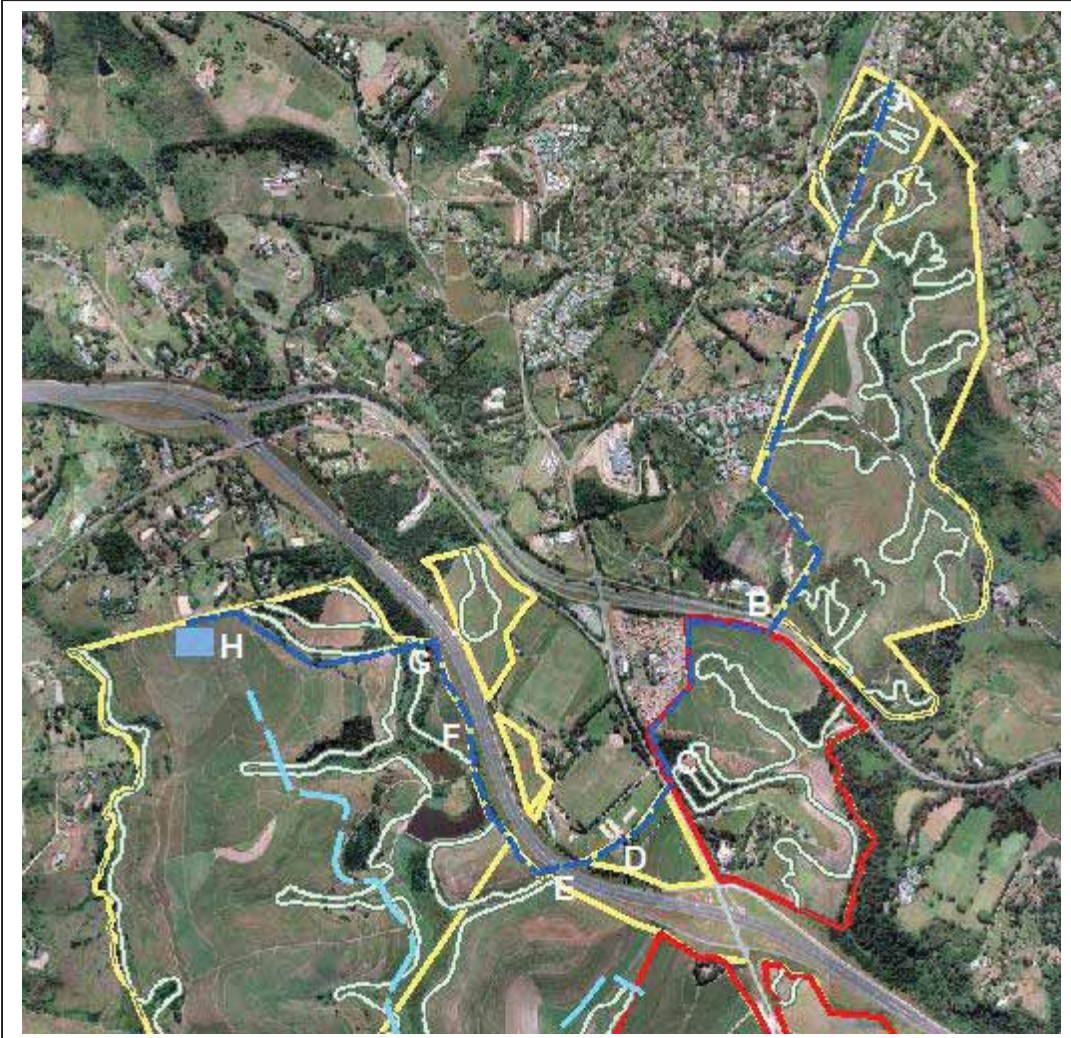
Yes please send proposals, nice to know what we're in for

Regards
Barbara

From: Stephanie [<mailto:stephanie.ksems@telkomsa.net>]
Sent: 17 October 2013 09:45 AM
To: barbara@flexo-it.co.za
Cc: kerry.seppings@telkomsa.net
Subject: RE: THD pipeline map
Importance: High

Good Morning Barbara,

Please see below the proposed water pipeline in blue. Tongaat Hullet's land is outlined in yellow. The water reservoir is illustrated by the blue square.



Trust this is a clearer map?

I have added you to the Interested and Affected Party register so you will get more details on this proposal as they become available. KSEMS is expecting to release the Draft Environmental Impact Report before the end of the month which will provide detailed information on the entire project.

Let me know if you need any more information at this point.

Kind Regards,
Stephanie

From: Barbara Martin
[mailto:barbara@flexo-

it.co.za]

Sent: 16 October 2013 03:38 PM

To: 'KSEMS'

Subject: RE: pipeline map

Assagay tongaat hulett's water

From: KSEMS [mailto:kerry.seppings@telkomsa.net]

Sent: 16 October 2013 03:27 PM

To: 'Barbara Martin'

Subject: RE: pipeline map

Afternoon Barbara,

Please can you confirm which project you are referring to as KSEMS have a few pipeline proposals? Where are you based?

We will then send a map through no problem.

Regards

Stephanie Williams
Lead Environmental Scientist



Kerry Seppings Environmental Management Specialists cc
4 Woodville Lane off Hawkstone Road, Summerveld, Assagay

Postal P.O. Box 396; Gillitts; 3603
Phone 031 7691578
Fax 086 5355281
Cellphone: 079 520 1583
Website www.ksems.co.za

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From: Barbara Martin [<mailto:barbara@flexo-it.co.za>]
Sent: 16 October 2013 02:54 PM
To: kerry.seppings@telkomsa.net
Subject:

Hi
Please can u send me a clearer map of the proposed pipe line
thanks

Best Regards,
Barbara



8 Imola Place, Westmead, Durban, 3610
Phone: +27 (0) 31 7009500
Fax: +27 (0) 31 7009504

Kerry Seppings Environmental Management Specialists cc
Postal P.O. Box 396; Gillitts; 3603
Ph: 031 769 1578
Fax: 086 535 5281
Website www.ksems.co.za

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Stephanie

From: Stephanie <stephanie.ksems@telkomsa.net>
Sent: 18 October 2013 07:54 AM
To: 'Barbara Martin'
Subject: RE: THD pipeline map

Morning Barbara,

A faunal specialist investigated the site and identified species in the area. There were originally three site alternatives with site 2 (outlined in red in the map I sent you) having the least impact on the faunal communities in the area. The preferred site also has the least impact on the linkages between the various catchments in the area. The development layout also includes a significant amount of "green open space" which is to be rehabilitated.

All the details and species lists etc. are included in the Environmental Impact Report that should be released before the end of the month. Interested and Affected Parties are given 40 days to comment on the draft before it is submitted to the Department of Agriculture and Environmental Affairs for a decision.

Regards,
Stephanie

From: Barbara Martin [mailto:barbara@flexo-it.co.za]
Sent: 17 October 2013 01:52 PM
To: 'Stephanie'
Subject: RE: THD pipeline map

Me again

Just thought I would mention, we see a lot of duiker, guinea fowl, mongoose, genets and a very strange looking cat and I'm sure they must live in the cane. Will they relocate them because now they have nowhere else to go with all the developments?

From: Stephanie [<mailto:stephanie.ksems@telkomsa.net>]
Sent: 17 October 2013 01:29 PM
To: 'Barbara Martin'
Subject: RE: THD pipeline map

Hi Barbara,

No problem.

Obtaining the environmental authorisation is one of the first stages of the development approval process and therefore it is difficult to estimate when construction will start. I do not however expect that it will begin within the next year or so.

Regards,
Stephanie

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Please think of the environment before printing out this email.

From: Barbara Martin [<mailto:barbara@flexo-it.co.za>]

Sent: 16 October 2013 02:54 PM

To: kerry.seppings@telkomsa.net

Subject:

Hi

Please can u send me a clearer map of the proposed pipe line

thanks

Best Regards,

Barbara



8 Imola Place, Westmead, Durban, 3610

Phone: +27 (0) 31 7009500

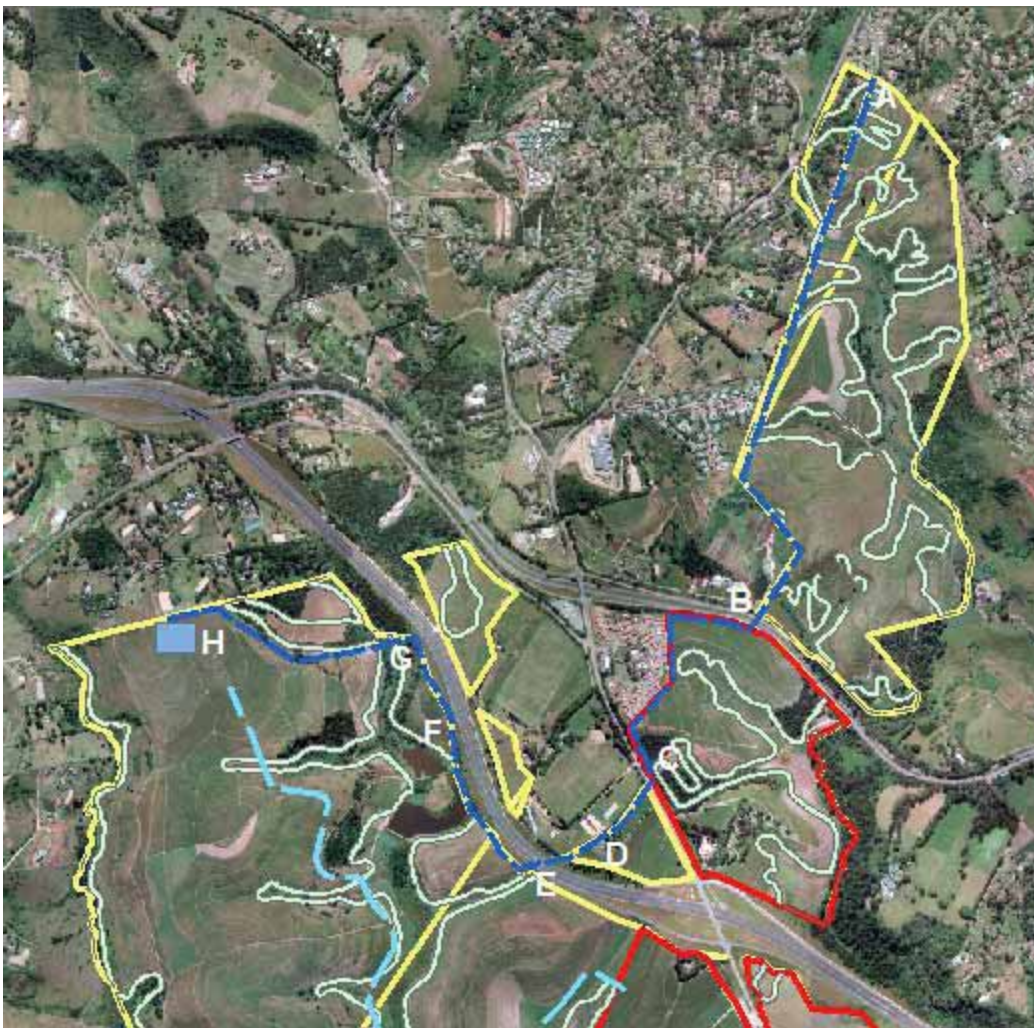
Fax: +27 (0) 31 7009504

KSEMS

From: Stephanie <stephanie.ksems@telkomsa.net>
Sent: 18 October 2013 12:28 PM
To: delcrest@telkomsa.net
Cc: kerry.seppings@telkomsa.net
Subject: THD Shongweni Bulk Water pipeline
Attachments: alternative site.jpg

Good Afternoon Dave,

Thank you for registering as and Interested and Affected Party (I & AP). With reference to your telephone call, please see below the proposed water pipeline in blue. Tongaat Hullet's land is outlined in yellow. The water reservoir is illustrated by the blue square.



Trust this is a clearer map.

I have spoken to the engineer who looked at the proposed alternative site (please see attached). He stated that this alternate location is approximately 25m lower than the originally proposed position which would result in a fair portion of the proposed development not be serviced. Therefore a higher elevation is required. The reservoir will be approximately 4.5m high, with approximate 2m buried and 2.5m exposed at the high point of the surround ground. The proposed 3.5Ml reservoir would be approximately 25m long.

I have added you to the I & AP register so you will get more details on this proposal once they become available.

Kind Regards,

Stephanie Williams
Lead Environmental Scientist



Kerry Seppings Environmental Management Specialists cc
Postal P.O. Box 396; Gillitts; 3603
Ph: 031 769 1578
Fax: 086 535 5281
Website www.ksems.co.za

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Please think of the environment before printing out this email.

Stephanie

From: Stephanie <stephanie.ksems@telkomsa.net>
Sent: 23 October 2013 12:14 PM
To: 'Jenny Dean'
Subject: RE: THD Shongweni Bulk Water pipeline

Afternoon Jenny,

The Engineering Service Report, with the exact position of the reservoir has not yet been submitted to KSEMS. I am expecting to receive this report before the end of the week. I will be able to give you a confident answer at this stage.

Trust this is sufficient.

Stephanie

From: Jenny Dean [mailto:jennyd@ion.co.za]
Sent: 18 October 2013 12:50 PM
To: 'Stephanie'
Subject: RE: THD Shongweni Bulk Water pipeline

Hi Stephanie, thanks again for prompt response – because I cannot see the map clearly at all can you let me know whose property has the reservoir outside ? Strange sentence that , sorry !
Jenny

From: Stephanie [<mailto:stephanie.ksems@telkomsa.net>]
Sent: 18 October 2013 12:33 PM
To: 'Jenny Dean'
Subject: RE: THD Shongweni Bulk Water pipeline

Hi Jenny,

Just to provide you with an update regarding the size of the reservoir, the engineer has stated that each situation requires a different layout and could be either circular or rectangular. It would be safe to say that the reservoir would be approximately 4.5m high, with approximate 2m buried and 2.5m exposed at the high point of the surround ground. The 3.5MI reservoir would therefore be approx. 25m long.

Regards,
Stephanie

Morning Jenny,

I am waiting for the updated Engineering Service Report which will include a detailed, scaled drawing of the pipeline and reservoir. This will be included as part of the Draft Environmental Impact Report (EIR) which will be available to you as a registered I & AP. I do know that the reservoir will have a maximum capacity of 3.5MI. I will however contact the engineer to ask about the height above ground and get back to you.

KSEMS is expecting to release the Draft EIR before the end of this month which will provide a holistic view on the project.

Regards,
Stephanie

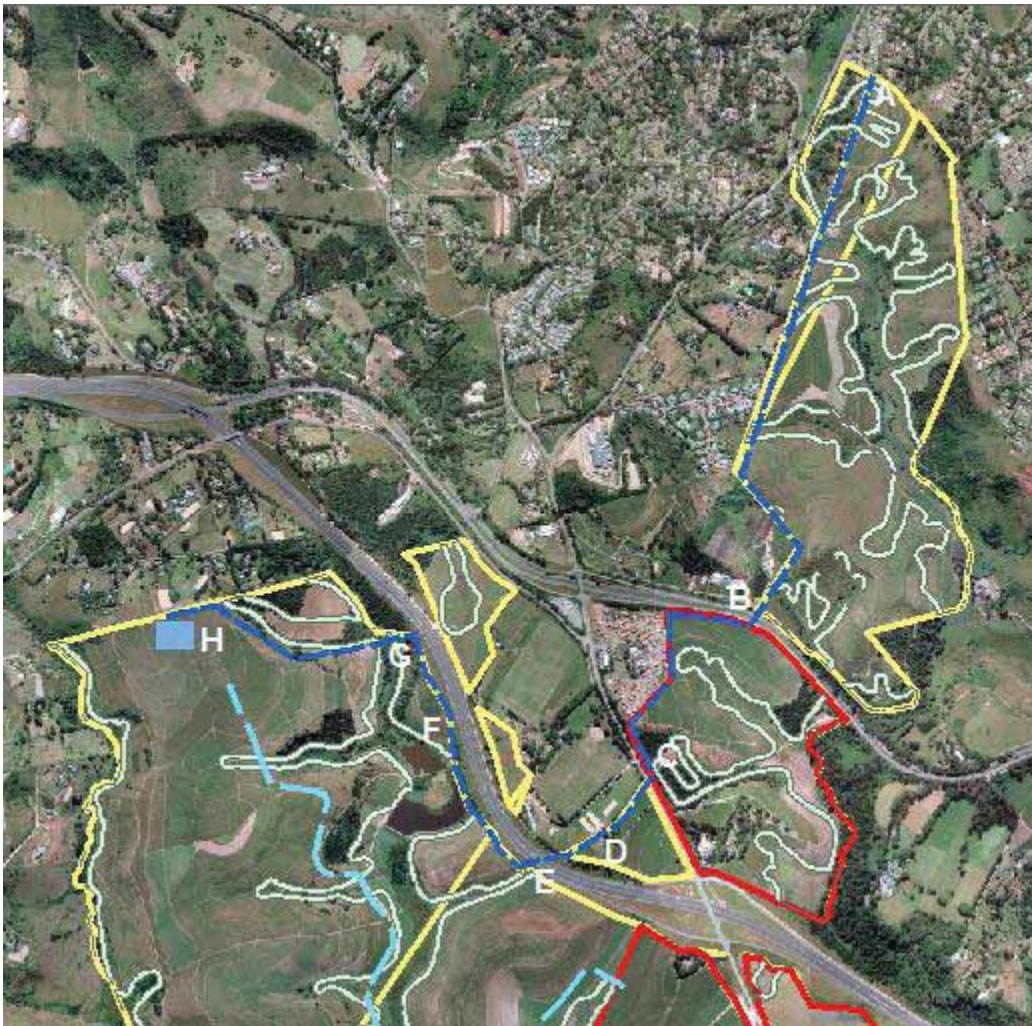
From: Jenny Dean [<mailto:jennyd@ion.co.za>]
Sent: 16 October 2013 07:59 PM
To: 'Stephanie'
Subject: RE: THD Shongweni Bulk Water pipeline

Hi Stephanie, thanks for your prompt response . How big is the reservoir going to be and how high above the ground ?
Thanks.
Jenny

From: Stephanie [<mailto:stephanie.ksems@telkomsa.net>]
Sent: 16 October 2013 04:59 PM
To: jennyd@ion.co.za
Cc: kerry.seppings@telkomsa.net
Subject: THD Shongweni Bulk Water pipeline
Importance: High

Afternoon Jenny,

With reference to your telephone call, please see below the proposed water pipeline in blue. Tongaat Hullet's land is outlined in yellow. The water reservoir is illustrated by the blue square.



Trust this is a clearer map. I have however added you to the I & AP register so you will get more details on this proposal.

Let me know if you need any more information.

Kind Regards,

Stephanie Williams
Lead Environmental Scientist



Kerry Seppings Environmental Management Specialists cc
Postal P.O. Box 396; Gillitts; 3603
Ph: 031 769 1578
Fax: 086 535 5281
Website www.ksems.co.za

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KSEMS

From: lilian@conomirra.co.za
Sent: 18 October 2013 11:56 AM
To: KSEMS
Subject: Re: TH Shopping Centre - posted along Kassier Road opposite Assagay Road

Dear Stephanie,
Thanks for the information.
Lilian

-----Original Message-----

From: KSEMS
To: Lilian Develing
Subject: RE: TH Shopping Centre - posted along Kassier Road opposite Assagay Road
Sent: Oct 18, 2013 11:53

Morning Lilian,

No, this is additional public participation for Tongaat Hulett's proposed Retail/Mixed use Development in Shongweni (DM/0003/2012). The Engineering Service Report identified the need for a new pipeline to supply the proposed development with water. KSEMS therefore notified additional landowners and adjacent properties of the proposed route. The pipeline will be included in the Draft EIR, which is expected to be submitted before the end of the month. You are currently registered as and I & AP and therefore will receive a copy of the report.

Regards

Stephanie Williams
Lead Environmental Scientist

-----Original Message-----

From: Lillian Develing [<mailto:lilian@conomirra.co.za>]
Sent: 17 October 2013 05:40 PM
To: Kerry Seppings
Subject: FW: TH Shopping Centre - posted along Kassier Road opposite Assagay Road

Dear Kerry
Is this a new project.
Thanks
Lilian

-----Original Message-----

From: Jenny [<mailto:jenny|ghln6@gmail.com>]
Sent: 17 October 2013 08:28
To: Lilian Develing; GNoyce
Subject: TH Shopping Centre - posted along Kassier Road opposite Assagay Road

Please see attached.

Sent via my mobile phone.

KSEMS

From: KSEMS <kerry.seppings@telkomsa.net>
Sent: 23 October 2013 12:25 PM
To: 'jenal@vodamail.co.za'
Subject: RE: Tongaat Hulett Shopping Mall

Good Afternoon Ms Loughlin,

Thank you for your email. Please note that you are already registered as an I & AP for the above mentioned project. The proposed pipeline route along Kassier Road is to service the proposed shopping mall. It is therefore part of this original application.

KSEMS anticipate to release the draft Environmental Impact Report for I & AP comment before the end of this month.

Regards

Stephanie Williams
Lead Environmental Scientist

Kerry Seppings Environmental Management Specialists cc
4 Woodville Lane off Hawkstone Road, Summerveld, Assagay Postal P.O. Box 396; Gillitts; 3603 Phone 031
7691578 Fax 086 5355281
Cellphone: 079 520 1583
Website www.ksems.co.za

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-----Original Message-----

From: Jenny [<mailto:jenny|ghln6@gmail.com>]
Sent: 21 October 2013 01:37 AM
To: KSEMS
Subject: Tongaat Hulett Shopping Mall

Hi Kerry,

Please can you register me as an I+AP for the Tongaat Hulett development along Kassier Road.

Thank you
Jenny Loughlin
The Kassier Road Project
031 765 2758

Stephanie

From: KSEMS <kerry.seppings@telkomsa.net>
Sent: 24 October 2013 04:58 PM
To: 'GREGG WILSON'
Cc: eleni@seeff.com; jodi@seeff.com
Subject: RE: Registration as an Interested and Affected Party

Good Afternoon Mr Wilson

Thank you for your interest in the project. You have been registered as an I&AP and will be kept updated on any further developments on the project.

Should you have any queries please feel free to contact us.

Regards
Ronell Kuppen
Projects Manager



Kerry Seppings Environmental Management Specialists cc
4 Woodville Lane off Hawkstone Road, Summerveld, Assagay
Postal P.O. Box 396; Gillitts; 3603
Phone 031 7691578
Fax 086 5355281
Website www.ksems.co.za

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From: GREGG WILSON [mailto:greggwilson@seeff.com]
Sent: 24 October 2013 12:21 PM
To: kerry.seppings@telkomsa.net
Cc: eleni@seeff.com; jodi@seeff.com
Subject: Registration as an Interested and Affected Party

Dear Kerry,

I refer to a notice I received in my post box regarding "NOTICE OF APPLICATION FOR ENVIRONMENTAL AUTHORISATION" made by Tongaat Hulett Developments.

Please can I hereby formally be registered as an interested and affected party?

Kind regards,

GREGG WILSON BComm (*Rhodes*) BSc Honours in Property (*UCT*) MPRE (Master Practitioner in Real Estate)

DIRECTOR

Seeff Hillcrest, Kloof & Waterfall KZN (& Surrounding Areas)

(Office) 031 765 5326 (Mobile) 083 321 8500 (Direct Fax) 031 765 5474

Email: greggwilson@seeff.com



1st Floor, Christians Village Shopping Centre, Old Main Road, Hillcrest, KZN, South Africa

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Stephanie

From: Ronell Kuppen <ronell.ksems@telkomsa.net>
Sent: 01 November 2013 08:18 AM
To: stephanie.ksems@telkomsa.net
Subject: FW: Proposed Shongweni development

Should you have any queries please feel free to contact us.

Kind Regards
Ronell Kuppen
Projects Manager

Kerry Seppings Environmental Management Specialists cc Postal P.O. Box 396; Gillitts; 3603 Phone 031 7691578
Fax 086 5355281 Website www.ksems.co.za

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-----Original Message-----

From: KSEMS [mailto:kerry.seppings@telkomsa.net]
Sent: 17 October 2013 07:58 AM
To: stephanie.ksems@telkomsa.net; ronell.ksems@telkomsa.net
Subject: FW: Proposed Shongweni development

-----Original Message-----

From: wendyraff@gmail.com [mailto:wendyraff@gmail.com]
Sent: 16 October 2013 07:08 PM
To: kerry.seppings@telkomsa.net
Cc: Marco Raffinetti
Subject: Proposed Shongweni development

Hi Kerry

Thank you for the flyer we received today. We are the owners of 14A Bowles rd (D18 Bowles rd) and would like to register as an I & AP please.

Please could you email me a larger version of the map on the flyer as I can't work it out properly.

Many thanks

Kind regards
Wendy

PS I am a friend of your sisters- we worked together at Marriott.

Sent from my iPhone=

Stephanie

From: KSEMS <kerry.seppings@telkomsa.net>
Sent: 25 October 2013 12:48 PM
To: GREGG WILSON; lilian@conomirra.co.za; jennylghln6@gmail.com; jenal@vodamail.co.za; jennyd@ion.co.za; Barbara Martin; swavv@mweb.co.za; delcrest@telkomsa.net; beachbibi@gmail.com; eleni@seeff.com; jodi@seeff.com
Subject: THD_Shongweni Retail/Mixed Use Development (DM/0003/2012)_meeting

Dear I&AP's,

Thank you for registering as an Interested and Affected Party for the Tongaat Hulett Developments Retail/Mixed-Use Development proposal (including a bulk water pipeline to service the development). As a new I & AP, please can you confirm whether you would like KSEMS to organise a meeting to discuss the project proposal. An Environmental Impact Report will be released for I & AP comment shortly.

KSEMS are available to meet during office hours at the KSEMS office (based in 4 Woodville Lane, Summerveld) however if an afterhours meeting is required, an additional venue will be booked. The proposed date is Tuesday 29th October 2013. Please advise if 9am at the KSEMS offices would suite you.

Should you have any queries please feel free to contact us.

Kind Regards,
Trisha Gounden
Junior Environmental Consultant



Kerry Seppings Environmental Management Specialists cc
Postal P.O. Box 396; Gillitts; 3603
Ph: 031 769 1578
Fax: 086 535 5281
Website www.ksems.co.za

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Please think of the environment before printing out this email.

Stephanie

From: KSEMS <kerry.seppings@telkomsa.net>
Sent: 28 October 2013 09:41 AM
To: trisha.ksems@telkomsa.net; 'Stephanie'
Subject: FW: THD_Shongweni Retail/Mixed Use Development (DM/0003/2012)_meeting

From: Barbara Martin [mailto:barbara@flexo-it.co.za]
Sent: 25 October 2013 03:24 PM
To: 'KSEMS'
Subject: RE: THD_Shongweni Retail/Mixed Use Development (DM/0003/2012)_meeting

Hi

I will not attend the meeting, I see Lilian on list of recipients ☺

Would appreciate the EIA report when available.

Thanks
Barbara

From: KSEMS [mailto:kerry.seppings@telkomsa.net]
Sent: 25 October 2013 12:48 PM
To: GREGG WILSON; lilian@conomirra.co.za; jennyghln6@gmail.com; jenal@vodamail.co.za; jennyd@ion.co.za; Barbara Martin; swavv@mweb.co.za; delcrest@telkomsa.net; beachbibi@gmail.com; eleni@seeff.com; jodi@seeff.com
Subject: THD_Shongweni Retail/Mixed Use Development (DM/0003/2012)_meeting

Dear I&AP's,

Thank you for registering as an Interested and Affected Party for the Tongaat Hulett Developments Retail/Mixed-Use Development proposal (including a bulk water pipeline to service the development). As a new I & AP, please can you confirm whether you would like KSEMS to organise a meeting to discuss the project proposal. An Environmental Impact Report will be released for I & AP comment shortly.

KSEMS are available to meet during office hours at the KSEMS office (based in 4 Woodville Lane, Summerveld) however if an afterhours meeting is required, an additional venue will be booked. The proposed date is Tuesday 29th October 2013. Please advise if 9am at the KSEMS offices would suite you.

Should you have any queries please feel free to contact us.

Kind Regards,
Trisha Gounden
Junior Environmental Consultant



Kerry Seppings Environmental Management Specialists cc
Postal P.O. Box 396; Gillitts; 3603
Ph: 031 769 1578

Stephanie

From: Jenny Dean <jennyd@ion.co.za>
Sent: 28 October 2013 05:35 PM
To: 'Stephanie'
Subject: RE: THD Shongweni meeting

Hi Stephanie, yes that would be perfect. Thank you for accommodating me. See you then.
Jenny

From: Stephanie [mailto:stephanie.ksems@telkomsa.net]
Sent: 28 October 2013 02:28 PM
To: 'Jenny Dean'
Subject: THD Shongweni meeting

Good Afternoon Jenny,

Would you be able to meet with myself and some of the other residents at 16:30 at the Bowles cul-de-sac on Wednesday to discuss the project and look at the proposed reservoir site location? Bev Renolds and Dave Dellar are available. Alternatively, could I organise to come see you individually if you are not available then?

Kind Regards,

Stephanie Williams
Lead Environmental Scientist



Kerry Seppings Environmental Management Specialists cc
Postal P.O. Box 396; Gillitts; 3603
Ph: 031 769 1578
Fax: 086 535 5281
Website www.ksems.co.za

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Please think of the environment before printing out this email.

Stephanie

From: KSEMS <kerry.seppings@telkomsa.net>
Sent: 28 October 2013 09:40 AM
To: 'Stephanie'; trisha.ksems@telkomsa.net
Subject: FW: THD_Shongweni Retail/Mixed Use Development (DM/0003/2012)_meeting

From: Lillian Develing [mailto:lilian@conomirra.co.za]
Sent: 25 October 2013 02:37 PM
To: 'KSEMS'
Subject: RE: THD_Shongweni Retail/Mixed Use Development (DM/0003/2012)_meeting

Dear Trisha

I would very much liked to have been at the meeting but we will be going on leave on Thursday.
If there is another meeting from 8 November on, you can put me down to attend.

Many thanks
Lilian Develing

From: KSEMS [mailto:kerry.seppings@telkomsa.net]
Sent: 25 October 2013 12:48
To: GREGG WILSON; lilian@conomirra.co.za; jennyghln6@gmail.com; jenal@vodamail.co.za; jennyd@ion.co.za; Barbara Martin; swavv@mweb.co.za; delcrest@telkomsa.net; beachbibi@gmail.com; eleni@seeff.com; jodi@seeff.com
Subject: THD_Shongweni Retail/Mixed Use Development (DM/0003/2012)_meeting

Dear I&AP's,

Thank you for registering as an Interested and Affected Party for the Tongaat Hulett Developments Retail/Mixed-Use Development proposal (including a bulk water pipeline to service the development). As a new I & AP, please can you confirm whether you would like KSEMS to organise a meeting to discuss the project proposal. An Environmental Impact Report will be released for I & AP comment shortly.

KSEMS are available to meet during office hours at the KSEMS office (based in 4 Woodville Lane, Summerveld) however if an afterhours meeting is required, an additional venue will be booked. The proposed date is Tuesday 29th October 2013. Please advise if 9am at the KSEMS offices would suite you.

Should you have any queries please feel free to contact us.

Kind Regards,
Trisha Gounden
Junior Environmental Consultant



Kerry Seppings Environmental Management Specialists cc
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Fax: 086 535 5281
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APPENDIX 16.2:

INTERESTED AND AFFECTED PARTY REGISTER

REGISTERED INTERESTED AND AFFECTED PARTIES

Tongaat Hulett Development - Shopping Mall

CONTACT	NAME	PHONE	FAX	E-MAIL	ADDRESS
Client	Rory Wilkinson	031 560 1926		Rory.Wilkinson@thdev.co.za	
Assessing Officer	Lethiwe Mabanga	031 302 2874		lethiwe.mabanga@kzndae.gov.za	
DAFF	Wiseman Rozani			wiseman@daff.gov.za	
DWA	Neyo Leburu	031 336 2759	031 305 9915	leburun@dwa.gov.za	
Eskom	Rajay Ramgoolam	031 204 5884	083 517 4327	rajay.ramgoolam@eskom.co.za	
KZN Wildlife	Dineshrie Thambu	033 845 1356 / 033 845 1458	033 845 1499	andyh@kznrwildlife.com	
Municipal Department - eThekweni	Diane Van Rensburg	031 311 7136	031 311 7134	vanrensburd@durban.gov.za	
KZN Transport	Roy Ryan	033 355 0570		roy.ryan@kzntransport.co.za	
SANRAL	Casper Landman	033 392 8100		landmancco@nra.co.za	
SANRAL	Logashit Sewntrain				
AMAFA	Weziwe T.chabalala	033 394 6543	033 342 6097	archaeology@amafamb.co.za	
Telkom				wayleaves@telkom.co.za	
MTN Tower	GARY JOHNSTON	0315028784/ 083 222 6953	031 705 7091	Johnst_G@mtn.co.za	
WEESA	Carolyn Schweigman			afromatz@elkomisa.net	
Ward Councillor	Phewa Richard Zibani/ Philani Khezwa	082 934 5622	086 710 9384	phewartz@hotmail.com	

Rate Payers Association	Gillian Noyce	828 000 943	031 765 1533	gnoyce@zmail.co.za	17 Shongweni Road Hillcrest, 3610
Clifton Canyon Residents Association	Mr Brian von Sorgenfrei	082 490 9270 021 702 9532 / 021 702 7000	031 765 1932	baronvonsorgs@gmail.com	
Private	Julie Knatten	6710		julie.knatten@drummond.hk	
eThekweni	Chumisa Thengwa			ThengwaC@durban.gov.za	
Ethekwini Evaluation	Rakesh Ramlagaan	031-311 4335	031- 337 1004	ramlagaanr@durban.gov.za	
Private	Lillian Davis	031 768 1111	031 768 1754	lildr@eastcoast.co.za	Asagay
Ratepayers Association	Lilian Develing	031 765 1134	086 558 6511	lilian@conomira.co.za	17 Shongweni Road Hillcrest, 3610
Envirowest	Allan Childs			alicon@3.co.za	
Company	Alan Dawson			dawsonap@leikomsa.net	
Private	Colleen & Richard Whilton			colleen@worldonline.co.za; kayak@worldonline.co.za	
Private	Vanessa Holmwood			vah@nwweb.co.za	
Private	Lyris & Garith Hill		083 574 7295	za_hillcrest@tdsmall.net	
Aintree Lane Complex	Maurice Morgan	0734309358		maurice@preferred.co.za	
Highbury School	Meilissa Van Rooyen	031 765 9800	:0317659838	meilissav@hps.co.za	
CV Makeovers	A. Tigar	031 765 7140/ 082 482 5968		info@cmakeovers.co.za	
Propco	Grant Mleod	083 225 1764	(031) 2082858	grant@propco.co.za	
Private	Denise Graham	031-7656910/ 082 851 7339		denise@wol.co.za	
Private	Derek Bird			bird@leikomsa.co.za	
Motprop	Ken Fann	031 266 7399	:0312667949	motprop@leikomsa.net	
Private	Nora Choveaux			rac@pmbtrust.org	
Hazyview Farm	Keith Standeven	031 7771554/ 0824441394	:0665836691	hazyview@netactive.co.za	
Private	John A Forbes	031-765-4359/ 082-956-2511	031-765-4359	forbes@eastcoast.co.za	
Assagay Hotel	Cathy (Jake Jacobs)		8 337 781 171	jeandka@leikomsa.net	
Private	Keith Roass	031 765 6893/ 083 253 7370		kross @cbnmail.co.za	
Private	P. Gillitt	031 7656776/ 084-5882745		newhamcrow@gmail.com	
Private	John Butler	031 765 5082/ 083 654 9913	:086 616 6028	john@jibprojects.co.za	
Hillcrest Newspaper	Lachlan Nicholson	031 762 1831/		lachlaninicholson@expressmedia.co.za	
Private	Lynette Dorkin	082 293 8034	:031 765 4590	lynette@tysonprop.co.za; nallyn@leikomsa.net	
Plantations Estate	Vivienne Jennings	031 765 8968	086 623 6059	vivienne@plantationsestate.co.za	
Private	Sue James	031 783 7853/ 083 7788 713		sue.mbabala@gmail.com	
Private	John Schimper			itsnville@leikomsa.net	
Chairperson (Shongweni Club)	Anton Mostert	082 908 0088	:031 765 1606	anton@atlix.co.za	
Polo Pony Station	Eric	031 768 1145	:031 768 1242		
MaiaMaia Ranch	Liz Archibald	031 716 3555	:031 716 3544	liz@raltrav.co.za	
Cox Yeats	Alastair Hey	0315368508/082 552 9227	:031 536 8088	ahay@coxbeats.co.za	

Mahasiddha Kadampa Buddhist Centre	Keisang Jampel	031 464 0984	086 5133476	info@meditateindurban.org
Private	Pam Flanagan	0317005655/071 680 9235	086 573 9250	Pam@compass.za.net
Compass Waste Services	Nicholas Hearn	031 267 9700	086 573 9193	nicholas@compass.za.net
Private	John Dovey	083 388 8290	086 505 2478	john@justdone.co.za
Private	Dave and Jo Sobey			jb_comms@gomt
Private	Alison Duncan			msalicat@gmail.com
Boftas Hill Residents Association	Peter DAVIES	0317172332/ 083 252 8206	317 658 9666	peter@kavtech.co.za
Private	MARK A. JASON			miason@worldonline.co.za/ miason1972@gmail.com
Net Vendor	Mary-Ann	086 111 6199/ 084 323 3402		mary@netvendor.co.za
Private	Terry	031 768 1367/ 082 417 7351		capelle@venturenet.co.za
Private	Grant Laret			glaret@gmail.com
Private	Karen and Cassian Bodley			karbod65@gmail.com
Waterfall and Link Hills ShoppoinG Centre	Derek Scott Robins	031 3671000	031 367 1020	derek.robins@larsontalcoener.com
Private	Sally Fletcher	031 - 765 9700/ 083 794 1071	031 - 765 9701	saf@lesterhall.co.za
Private	Judith McDowell	082 673 4692		judith@3lester.co.za/ lenymcd@africa.com
Private	Precious Smopthe	084 723 2668/ 076 593 2318		
Waterfield Farm	John			john@waterfield.co.za
Waterfall Shopping Centre	Simon Pitcher	031 763 4433	031 763 3152	simon@wsc.co.za
Private	Naeem Jeewa	083 212 9214		naeem@mobilecom.co.za
Development Planners	Pravin Amar Singh	031 201 7510	031 201 8939	pravinamar@mweb.co.za/admin@pravinamar.com/ environmental1@pravinamar.com
Private	Pat Wilfrew	082 470 5469/ 031 767 3909		wilfrewpa@gmail.com
Private	Ros Parnementer	082 851 5970	031 767 2250	ros.parnementer@telkomsa.net
Private	Brian & Marilyn	031 268 1279		mpoldie@vebo.co.za
Private	Sonya Keyser			KEYSER@ukzn.ac.za
Private	John Cox			jmistview@telkomsa.net
Private	Wallis Buchan	031 717 2517		Wallis.Buchan@dev2.co.za
Private	Alan Smaildon			asmaldon@chillibyte.com
Private	Ronald Coppin	031 765 2909/ 082 278 1144		denron@coppin.co.za
Private	Martin Heiligendroff	083 659 8124		heidis@africa.com
Private	Anthea Spewart	031 085725		tax@cmrtaect.co.za
Private	Antonieta Alves	031 701 1255/ 072 454 2818		antialves@soukop.co.za
Private	Grant Salomon	031 765 1369/ 083 274 4240	086 648 0908	Grant@sapropsal.com
Private	Natalie Way-Jones			nalswi@gmail.com
eThekweni Municipality	Debbie Abel	031 - 311 7367	031 - 311 7592	abeld@durban.gov.za
Private	Deidre & Salomon Oosthuisen			

Private	TC Chetty	832 643 134		tc.chetty@caaa.co.za
Private	Simon Hemingway	082 565 7545		heminwayasa@gmail.com
Private	Andrew and Leander Walford			andrewwalford@telkomsa.net
Private	Dave Smith	083 289 0484	086 671 619	dave@cra-durban.co.za
Board of Highmead Country Estate	Bob Allen		829254470	roberta@saol.com
Beele Inc	Lee-Anne Wilkins			lee@beeleinc.co.za
Hillcrest Hospital Manager	Annette Olls	31 768 1264/82 892 3000	31 768 1232	SusanW@hillcresthospital.co.za
Private	William Horsefield			amazona@africa.com
Private	Jenny Loughlin			jenal@vodamail.co.za / jennyhighin@gmail.com
Private	Creg Beaumont			greg@3dprop.co.za
Private	Mr and Mrs Rennie			craignen@vodamail.co.za
Private	Cathy Rich	312602374	031 260 1169/2092	Richc@ukzn.ac.za / nrp@ukzn.ac.za
Aintree Lane Complex	Pryce Robinson	072 024 3296		pryce.robinson@gmail.com
Aintree Lane Complex	Newet	082 324 8005		dewet@megafreight.co.za
Private	Linda Brenmor			Brens@telkomsa.net
Private	Mhambua Mchunu	083 355 5044		
Private	Mchunu MB	073 498 0782		
Private	Linda Mchunu	072 921 0055		
Ward Councillors Office	Philani Khezwa	076 220 6106		
Private	Warren Fairer	082 652 3656		warren.fairer@ref.co.za
Hillcrest Conservancy	G.L Victor	073 901 13902		Georgievic@telkomsa.net
GAPP Architects Urban Designers	Erky Wood	082 558 5118		erky@eapp.net
Private	Keus Packer	082 330 6772		danneridge@telkomsa.net
Private	C Rennie	083 632 2191		CRAIGREN@VODAMAIL.CO.ZA
Private	G Rennie	083 6320 2191		gail.elizabeth@hotmail.com
Private	Russel Worship	083 379 0777		Russell@Grid.co.za
Private	Nick Swan	0825 807 7796		nickswan@africa.com
Private	C Standaeven	083 777 1674		hazyview@netactive.co.za
Private	Rachel Mathews	031 266 2410		rachel@beeleinc.co.za
Tongaat Hullelt	Bheki Shonywe	031 560 1937		bheki.Shonywe@tongaat.com
Tongaat Hullelt	Mbongi Dhlomo	031 560 1925		Mbonai.dhlomo@tongaat.com
Private	Mickey Clark	031 765 3842		CLARK@XSINET.CO.ZA
Tongaat Hullelt Development	David	031 560 1923		
Private	Penton	082 820 2848		consultsolv@africa.com
Private	Des Donne	084 606 3827		

Private	Dion Nicholas	084 606 3827	dnicholas@tovola.co.za	
Aintree Lane Complex	Babe Ramollo	079 269 6803	mpolokeng.ramollo@dpm.gov.za	
eThekweni Municipality	Thembekie Mbatsha	031 311 2715/071 850 7248	mbathathembekie@durban.gov.za	
COWRA	Alan Smaldon		asmaldon@chillybyte.com	
Private	John Ross	31-372 9700	JohnR@trass.co.za	
Private	Larry & Elaine Vermaak	031 765 7112	larry.vermaak@gmail.com	
After Additional Pipeline Public Participation				
Resident	Jenny Dean	031 768 1209	jennyd@lon.co.za	Bowles Road
Resident	Barbara Martin	031 700 9500	barbara@lexo-it.co.za	
Resident	Wendy Raffinetti	0834523010	wendyraf@gmail.com	Bowles Road
Resident	Dave Dellar	082 375 1150	delcresi@leikomsa.net	Bowles Road
Resident	Bev Renolds	083 799 1218	beachbib@gmail.com	Bowles Road
Resident	Gregg Wilson	0833218500	greggwilson@sseff.com	Bowles Road

APPENDIX 16.3:

BACKGROUND INFORMATION DOCUMENT AND PROOF OF DISTRIBUTION



Background Information Document

The purpose of this document is to serve as a background information document intended to inform I & APs of the project as well as to provide information on the roles and responsibilities of registered I & APs. This document does not serve to provide detailed information on the potential impacts of the proposal which will be described in the scoping report.

Project Title:	Proposed construction of a centre for retail/mixed use development on Rem of the farm Kirkfalls No. 14227 in Durban (Reference number: DM/0003/2012)
Application Type:	Scoping & EIR
Competent Authority:	KwaZulu-Natal Department of Agriculture, Environmental Affairs & Rural Development
Location of Activity:	Shongweni
Contact in Order to Register as an I & AP:	Trenell Sewraj Fax: 031 769 1579 Tel: 031 769 1578 kerry.seppings@telkomsa.net
Environmental Consultants for Project:	Kerry Stanton, Manogrie Chetty and Trenell Sewraj
Applicant:	Tongaat Hulett Developments
Release Date:	20th March 2012

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Kerry Seppings Environmental Management Specialists cc

Phone: 031 769 1578 Fax: 031 769 1579 Cell: 082 823 1844 E- Mail: kerry.seppings@telkomsa.net

4 Woodville Lane, Assagay, Summerveld
Company Registration no: 1999/049452/23
Members: K.A. Stanton (Director)

Introduction

In 2009, the eThekweni Municipality adopted the Outer West Spatial Development Plan (SDP) which serves as the key document driving development in the area (Shongweni LAP, 2010). Since the SDP, a comprehensive and detailed plan for the Shongweni and surrounding areas needed to be prepared to ensure a clear framework for the development and management of these areas. The Shongweni Local Area Plan was therefore prepared and ultimately defines the broader role of the area which is then broken down into precincts or functional areas.

The eThekweni Municipality has identified in the Shongweni Local Area Plan (LAP) the need for a town centre precinct as part of the regional centre. As per the LAP, this town centre precinct of the Shongweni LAP study area should be located in the Central Eastern precinct and includes areas that can be developed to accommodate the following land use:

- **Commercial: Mixed Use – Medium Intensity:** This area will allow for the development of a regional centre, office park development and also includes a residential component.

Tongaat Hulett Developments therefore propose to facilitate the construction of a new regional retail and mixed use development at Shongweni (Figure 1) including the upgrading of affected roads and service infrastructure. The development will include a new regional retail centre, offices, business park and medium to high density residential units including expansive areas of rehabilitated open space and the promotion of sustainability measures.

Figure 1: Aerial map of the proposed site in red



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Company Registration no: 1999/049452/23
Members: K.A. Stanton (Director)

Need and Desirability

The eThekweni Municipality has identified as part of the Shongweni Local Area Plan (LAP), the need for a town centre precinct. This precinct falls within the regional centre and is located in the central eastern precinct. The proposed site identified by Tongaat Hulett Development has been reflected as a future commercial node which will allow for mixed use development of medium intensity.

The proposed development is the next greenfield development opportunity along the N3 corridor between Durban, Pietermaritzburg and Gauteng.

There is significant investor and developer interest in a major retail and commercial development which demonstrates a need to create a consolidated commercial node at Shongweni; with its extensive access and visibility attributes and which the eThekweni Municipality's Shongweni LAP clearly reflects.

Site Description

Tongaat Hulett Development proposes to develop the site located on the Rem of the Farm Kirkfalls no. 14227 (Figure 2). The co-ordinates for the site are as follows: 29° 47' 49.67" South and 30° 44' 46.77" East

Figure 2: Aerial map of the proposed site in orange illustrating the site description



Photograph of vegetation within the existing site



Photograph of existing buildings within the proposed site



Photograph of the existing sugar cane fields



Photograph of existing vegetation within the drainage line onsite

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Company Registration no: 1999/049452/23
Members: K.A. Stanton (Director)

The proposed site is located between the N3 and the M13 and is currently used for agricultural purposes (i.e. for sugar farming).

The site is surrounded by the Aintree residential complex to the North West, the M13 to the North, the N3 to the South, Kassier Road to the East and the DMOSS area to the East and South East. The uMhlatuzana River flows along the eastern boundary of the proposed site.

Specialist Studies

The following specialist studies will be conducted during the Scoping and EIR process and will be discussed and reviewed in the EIR:

- a wetland delineation study to identify and delineate all wetlands / drainage lines within the proposed sites and to assess the wetland habitat,
- a traffic impact assessment to determine the impact of the proposed development on the traffic on Kassier Road and the M13 and N3 interchanges,
- a socio-economic assessment to determine whether the proposed development will have an impact on both the social and economic aspects within the area,
- a vegetation survey to assess the vegetation present on site,
- a geotechnical assessment to identify soil and geological stability, and
- an engineering study.

Potential Environmental Impacts and Mitigation Measures

A number of potential environmental issues have already been identified and are listed in Table 1 to assist I & APs to better understand the investigations to be undertaken as part of the Environmental Impact Assessment Report (EIR). Where mitigation measures have already been identified, these have also been provided in Table 1. The Environmental Management Programme (EMPr) is usually prepared as part of the EIR. It translates the recommended mitigation and monitoring measures into specific actions that must be carried out by the contractor / engineer / applicant.

Table 1: Potential Impacts and Mitigation Measures

Potential Impact	Mitigation Measure
During Construction	
Interruption to traffic.	Will need to be carefully controlled through flagsman, timing of vehicles etc.
Generation of dust, solid waste and noise pollution.	Will be controlled as per the EMPr.
Generation of building rubble requiring disposal.	Rubble to be disposed of in appropriate landfill and monitoring of construction activities will be detailed as per the EMPr.
Interruption or damage to services (electricity, water etc).	All services have to be identified prior to construction so as to ensure these are not damaged.
Damage and removal of existing vegetation.	Will be controlled as per the EMPr.
Impacts on watercourses, water bodies or drainage and DMOSS areas.	Will be controlled as per the EMPr.
Contamination by cement and other hazardous materials.	Designated concrete mixing areas and storage areas for hazardous materials; to be monitored as per the EMPr.
Potential temporary employment for skilled local community members during construction phase.	Positive impact. No mitigation measure required.
Erosion of soil and stockpiled material	Will be monitored as per the EMPr.
During Operation	
Potential increase in traffic.	There will be an increase in traffic to and from the proposed development. This will be discussed further in the EIR.

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4 Woodville Lane, Assagay, Summerveld
Company Registration no: 1999/049452/23
Members: K.A. Stanton (Director)

Potential risk of injury to people due to increase in traffic.	Speed limits will need to be implemented on Kassier Road at the entrance and exit points to the development. This will be assessed further in the EIR.
Potential contamination of soil, wetland & river.	A stormwater management plan must be implemented to manage all runoff on or through the site. A buffer zone will be in place to ensure the protection of the environmentally sensitive areas.
Increased pressure on services i.e. water, sewer, electricity and stormwater.	Water and electricity will require new infrastructure to accommodate the proposed development, the network is in place in the area to facilitate this. Waste water issues are currently under discussion with the municipality. These issues will be further investigated in the EIR.
Increased surface water runoff	A stormwater management plan will need to be implemented to manage all runoff on or through the site. A buffer zone will be in place to ensure the protection of the environmentally sensitive areas.
Potential loss of wetland areas	A wetland study will be conducted and discussed in the EIR. Buffers should be implemented to ensure protection of these areas.
Potential erosion of wetland or drainage lines	A wetland study will be conducted and discussed in the EIR. Buffers should be implemented to ensure protection of these areas.
Loss of grassland areas	A vegetation study will be conducted and discussed in the EIR.
Loss of open space	Buffers should be implemented to ensure that environmentally sensitive areas are protected. Indigenous vegetation should be planted within the development to compensate for the loss of this space.
Development of oversteep areas leading to erosion and collapse of banks	A geotechnical study will be conducted and discussed in the EIR to ensure that development does not occur in oversteep areas.
Impact on surrounding property values	Potential impacts on values will be assessed in the EIR.

Further impacts will be assessed in the Environmental Impact Assessment Report (EIR).

Who are Tongaat Hulett Developments?

Tongaat Hulett is an agri-processing business which includes the integrated components of land management, property development and agriculture. The company's development arm has established a reputation for excellence as one of South Africa's leading private land developers, having planned and developed more than 2000ha of serviced land for residential, commercial, industrial, resort and mixed-use purposes. In collaboration with key stakeholders, the company is uniquely positioned to take on projects on a massive scale.

They are committed to uncovering and implementing global best practices, with the aim of creating relevant, holistic environments in which we can all live, work, play, pray and learn within our fair share of the Earth's resources.

www.ksems.co.za

Kerry Seppings Environmental Management Specialists cc

Phone: 031 769 1578 Fax: 031 769 1579 Cell: 082 823 1844 E- Mail: kerry.seppings@telkomsa.net

4 Woodville Lane, Assagay, Summerveld
 Company Registration no: 1999/049452/23
 Members: K.A. Stanton (Director)

Environmental Impact Assessment

In order to determine the overall environmental feasibility of the proposal, an Environmental Impact Assessment is required (EIA) as per the National Environmental Management Act, 1998 (Act No. 107 of 1998), (as amended) and the Environmental Impact Assessment Regulations of 2010. An Environmental Impact Assessment (EIA) is an assessment undertaken to determine the environmental impacts of a proposed project. It is a planning and management tool for sustainable development and aims to inform decision-makers about the potential environmental, physical, biological and socio-economic effects of the proposed project. This allows relevant authorities and decision-makers to provide an Environmental Authorisation (EA) either authorising or rejecting the proposal.

The construction of a new regional retail and mixed use development at Shongweni requires that a Scoping and EIA process be followed as the following activities under GNR 544 and GNR 545 are triggered:

Activity	Description
Activity 11 of GNR 544	<p>The construction of:</p> <ul style="list-style-type: none"> (i) canals; (ii) channels; (iii) bridges; (iv) dams; (v) weirs; (vi) bulk storm water outlet structures; (vii) marinas; (viii) jettles exceeding 50 square metres in size; (ix) slipways exceeding 50 square metres in size; (x) building exceeding 50 square metres in size; (xi) infrastructure or structures covering 50 square metres or more <p>where such construction occurs within a watercourse, OR WITHIN 32m of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line.</p>
Activity 15 of GNR 545	<p>Physical alteration of undeveloped, vacant or derelict land for residential, retail, commercial, recreational, industrial or institutional use where the total area to be transformed is 20 hectares or more;</p> <p>except where such physical alteration takes place for:</p> <ul style="list-style-type: none"> (i) linear development activities; or <p>agriculture or afforestation where activity 16 in this Schedule will apply.</p>

The Scoping and EIR Process

The following components of Scoping and EIR process have been completed:

- The application form together with a declaration of interest by the EAP was submitted to the competent authority (DAEARD) on the **1st March 2012** for acknowledgement.
- The public participation process commenced on the **3rd February 2012**.
 - Neighbours were notified on the **3rd February 2012**;
 - Signboards / notices were placed along the boundary of the site on the **3rd February 2012**;
 - Emails and / faxes were sent to I & Aps from the **6th February 2012**;and
 - Adverts were placed in The Mercury (**6th February 2012**) and The Highway Mail (**10th February 2012**).

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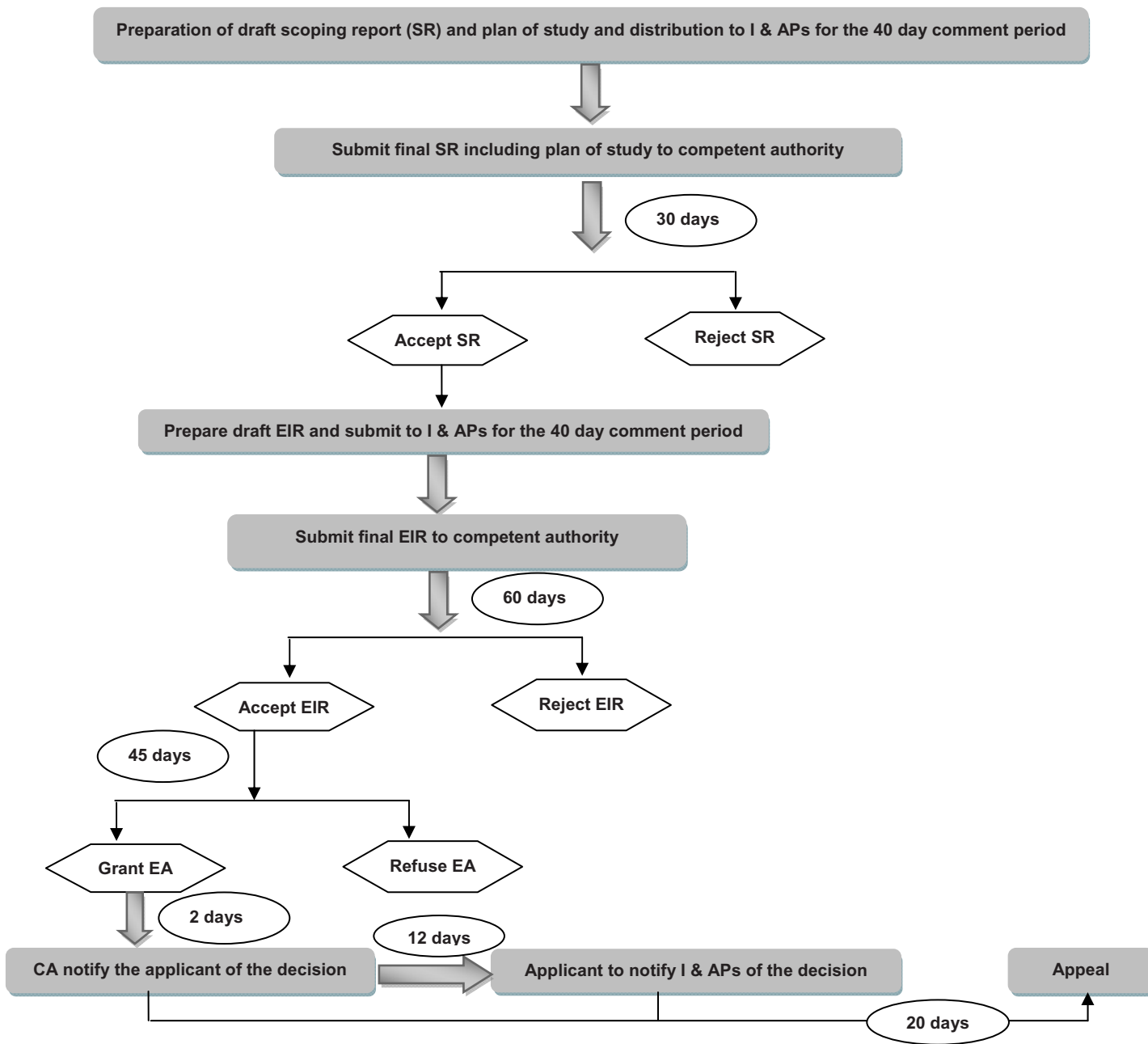
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- A I & AP register has been prepared and maintained.
- The Scoping and EIR process requires that a Background Information Document (BID) be submitted to all I & Aps for comment. This was distributed to all I & Aps on the 20th March 2012.

The following steps of the Scoping and EIR process still need to be undertaken:



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4 Woodville Lane, Assagay, Summerveld
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 Members: K.A. Stanton (Director)

About KSEMS

Kerry Seppings Environmental Management Specialists cc (KSEMS) is an established environmental consultancy which has been based in KwaZulu-Natal since 1998. KSEMS is the independent party and is responsible for assessing the impacts of the proposal. All people that may be interested or affected by this development can help KSEMS by providing us with questions, comments or feedback for this proposal. You can do this by registering as an Interested & Affected Party (I&AP) for this project with the contact person below.

Any Persons Interested In This Project Should Register As An Interested And Affected Party In Order To Receive Information And Comment On The Proposal

You are invited to register with:
Trenell Sewraj
Kerry Seppings Environmental Management Specialists cc
Phone 031 769 1578
Fax 031 769 1579
E-mail kerry.seppings@telkomsa.net

By registering for the process, your name will be included in the register of I & APs and you will be notified of meetings and availability of reports for comment. You will be able to offer comments or queries on any written submission or information provided which will be included in the reports that will be distributed to the authorities.

EXCERPT TAKEN FROM NEMA EIA REGULATIONS (2010) DESIGNATING RESPONSIBILITIES OF REGISTERED INTERESTED AND AFFECTED PARTIES

Registered interested and affected parties entitled to comment on submissions (Regulation 56) -

(1) A registered interested and affected party is entitled to comment, in writing, on all written submissions made to the competent authority by the applicant or the EAP managing an application, and to bring to the attention of the competent authority any issues which that party believes may be of significance to the consideration of the application, provided that –

- (a) comments are submitted within – (i) the timeframes that have been approved or set by the competent authority; or*
- (ii) any extension of a timeframe agreed to by the applicant or EAP;*
- (b) a copy of comments submitted directly to the competent authority is served on the applicant or EAP; and*
- (c) the interested and affected party discloses any direct business, financial, personal or other interest which that party may have in the approval or refusal of the application.*

The lead consultant on this project is Manogrie Chetty and is available on the following details:

Phone 031 769 1578
Fax 031 769 1579
E-mail: kerry.seppings@telkomsa.net

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Company Registration no: 1999/049452/23
Members: K.A. Stanton (Director)

KSEMS

From: KSEMS <kerry.seppings@telkomsa.net>
Sent: 20 March 2012 03:13 PM
To: WisemanR@nda.agric.za; 'wisemanr@daff.gov.za'; NeziswaMe@nda.agric.za; 'lethiwe.mabanga@kzndae.gov.za'; 'pillayr@dwa.gov.za'; rajay.ramgoolam@eskom.co.za; 'andyb@kznwildlife.com'; 'Phumelela Dlamini' (dlaminip@kznwildlife.com); 'vanrensburgd@durban.gov.za'; roy.ryan@kzntransport.gov.za; landmanc@nra.co.za; 'archaeology@amafapmb.co.za' (archaeology@amafapmb.co.za); Bernadetp@amafapmb.co.za; 'Johnst_G@mtn.co.za'; Carolyn Schwegman; 'phewarz@hotmail.com'
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE (DM/0003/2012)
Attachments: meeting agenda.pdf; Tongaat Hulett Dev BID.pdf

Dear All

Please see attached the Background Information Document for the above-mentioned project.

Please see attached the agenda for the meeting to be held on **the 22nd of March 2012 at the Assagay Hotel at 17:30pm .**

If you have not already confirmed attendance please do so, as we require this information for the venue set up and refreshment purposes.

Should you have any queries please feel free to contact us.

Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



Kerry Seppings Environmental Management Specialists cc
4 Woodville Lane off Hawkstone Road, Summerveld, Assagay
Postal P.O. Box 396; Gillitts; 3603
Phone 031 7691578
Fax 031 7691579
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To: gnoyce@zmail.co.za; HCLAWNMOWER@webstorm.co.za;
julie.knatten@drummond.hk; 'ThengwaC@durban.gov.za';
ramlugaanr@durban.gov.za; 'ltbird@eastcoast.co.za'; 'lilian@conomirra.co.za'
(lilian@conomirra.co.za); liliand@webafrica.org.za; 'atcon@3i.co.za';
'dawsonap@telkomsa.net'; colleen@worldonline.co.za; vah@mweb.co.za;
za_hillcrest@ldsmail.net; 'maurice@preferred.co.za'; 'melissavr@hps.co.za';
'info@cvmakeovers.co.za'; 'grant@propco.co.za'; 'deniseg@wol.co.za'
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE
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Sent: 20 March 2012 03:21 PM
To: Derek Bird (bird@telkomsa.net); motprop@telkomsa.net; nac@pmbtrust.org; hazyview@netactive.co.za; forbesj@eastcoast.co.za; jaandka@telkomsa.net; kross@dbnmail.co.za; newnhamcrow@gmail.com; john@rjbprojects.co.za; lachlan.nicholson@expressmedia.co.za; 'lynette@tysonprop.co.za'; 'vivienne@plantationsestate.co.za'; 'sue.mbabala@gmail.com'; 'itsmylife@telkomsa.net'; 'anton@altix.co.za'; 'liz@rattray.co.za'; 'ahay@coxyeats.co.za'; 'info@meditateindurban.org'
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE (DM/0003/2012)
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Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE (DM/0003/2012)
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Sent: 20 March 2012 03:31 PM
To: pravinamar@mweb.co.za; witherowp@gmail.com; ros.pammenter@telkomsa.net; mggoldie@yebo.co.za; larry.vermaak@gmail.com; KEYSER@ukzn.ac.za; Wallis.Buchan@dev2.co.za; 'asmaldon@chillibyte.com'; 'denron@coppin.co.za'; 'heidis@iafrica.com'; 'tax@cmgacct.co.za'; 'antalves@soukop.co.za'; 'Grant@sapropsal.com'; 'natswj@gmail.com'; 'AbelD@durban.gov.za'; 'govindsm@telkom.co.za'
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Sent: 20 March 2012 04:28 PM
To: tc.chetty@tcaa.co.za; 'craigren@vodamail.co.za'
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE (DM/0003/2012)
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Distribution of documents

Distribution of BID

Project Title

THD Shopping Mall

Orange - Must get copy

Pink - Must get copy of Report

Green - Get copy if registered

Blue - Newspapers, no copy

Contact	Name	Dept/ Business/ Private	Date sent	Sent by fax, e-mail, hand delivered notice or post?
Client	Rory Wilkinson	Department		
DAEA	Lethiwe Mabanga	Department	20/03/2012	Email
DAFF	Wiseman Rozani	Department	20/03/2012	Email
DWA	Renelle Pillay	Department	20/03/2012	Email
Eskom	Rajay Ramgoolam	Department	20/03/2012	Email
KZN Wildlife	Andy Blackmore	Department	20/03/2012	Email
Municipal Department- eThekweni	Diane Van Rensburg	Department	20/03/2012	Email
KZN Transport	Roy Ryan	Department	20/03/2012	Email
SANRAL	Casper Landman	Department	20/03/2012	Email
AMAFA	Weziwe Tshabalala	Department	20/03/2012	Email
Telkom	SM Govinden	Department	20/03/2012	Email
MTN Tower	GARY JOHNSTON	Department	20/03/2012	Email
WESSA	Carolyn Schwegman	Department	20/03/2012	Email
Ward Councillor	Phewa Richard Zibani/ Philani Khezwa	Department	20/03/2012	Email
Ward Councillor	Gillian Noyce	Department	20/03/2012	Email

Clifton Canyon Residents Association	Mr Brian von Sorgenfrei	Private	20/03/2012	Email
Private	Julie Knatten	Private	20/03/2012	Email
eThekwini	Chumisa Thengwa	Private	20/03/2012	Email
Ethekwini Evaluation	Rakesh Ramlugaan	Private	20/03/2012	Email
Private	Lillian Davis	Private	20/03/2012	Email
Ratepayers Association	Lilian Develing	Private	20/03/2012	Email
Envirowest	Allan Childs	Private	20/03/2012	Email
Company	Alan Dawson	Private	20/03/2012	Email
Dept/ Company/ Private	NAME	Private	20/03/2012	Email
Private	Colleen & Richard Whitton	Private	20/03/2012	Email
Private	Vanessa Holmwood	Private	20/03/2012	Email
Private	Lyris & Garith Hill	Private	20/03/2012	Email
Aintree Lane Complex	Maurice Morgan	Private	20/03/2012	Email
Highburry School	Melissa Van Rooyen	Private	20/03/2012	Email
CV Makeovers	A. Tigar	Private	20/03/2012	Email
Propco	Grant Mcleod	Private	20/03/2012	Email
Private	Denise Graham	Private	20/03/2012	Email
Private	Derek Bird	Private	20/03/2012	Email
Motprop	Ken Fann	Private	20/03/2012	Email
Private	Nora Choveaux	Private	20/03/2012	Email
Hazyview Farm	Keith Standeaven	Private	20/03/2012	Email
Private	John A Forbes	Private	20/03/2012	Email

Assagay Hotel	Cathy (Jake Jacobs)	Private	20/03/2012	Email
Private	Keith Roass	Private	20/03/2012	Email
Private	P. Gillitt	Private	20/03/2012	Email
Private	John Butler	Private	20/03/2012	Email
Hillcrest Newspaper	Lachlan Nicholson	Private	20/03/2012	Email
Private	Lynette Dorkin	Private	20/03/2012	Email
Plantations Estate	Vivienne Jennings	Private	20/03/2012	Email
Private	Sue James	Private	20/03/2012	Email
Private	John Schimper	Private	20/03/2012	Email
Chairperson (Shongweni Club)	Anton Mostert	Private	20/03/2012	Email
Polo Pony Station	Eric	Private	20/03/2012	Email
MalaMala Ranch	Liz Archibald	Private	20/03/2012	Email
Cox Yeats	Alastair Hay	Private	20/03/2012	Email
Mahasiddha Kadampa Buddhist	Kelsang Jampel	Private	20/03/2012	Email
Private	Pam Flanagan	Private	20/03/2012	Email
Compass Waste Services	Nicholas Hearn	Private	20/03/2012	Email
Private	John Dovey	Private	20/03/2012	Email
Private	Dave and Jo Sobey	Private	20/03/2012	Email
Private	Alison Duncan	Private	20/03/2012	Email
Bothas Hill Residents Association	Peter DAVIES	Private	20/03/2012	Email
Private	MARK A JASON	Private	20/03/2012	Email
Net Vendor	Mary- Ann	Private	20/03/2012	Email
Private	Terry	Private	20/03/2012	Email

Private	Grant Laret	Private	20/03/2012	Email
Private	Karen and Cassian Bodley	Private	20/03/2012	Email
Waterfall and Link Hills ShoppoinG Centre	Derek Scott Robins	Private	22/03/2012	Email
Private	Sally Fletcher	Private	20/03/2012	Email
Private	Judith McDowell	Private	20/03/2012	Email
Private	Precious Smophe	Private	20/03/2012	Email
Waterfield Farm	John	Private	20/03/2012	Email
Waterfall Shopping Centre	Simon Pitcher	Private	20/03/2012	Email
Private	Naeem Jeewa	Private	20/03/2012	Email
Development Planners	Pravin Amar Singh	Private	20/03/2012	Email
Private	Pat Withew	Private	20/03/2012	Email
Private	Ros Pameenter	Private	20/03/2012	Email
Private	Brian & Marylin	Private	20/03/2012	Email
Private	Sonya Keyser	Private	20/03/2012	Email
Private	John Cox	Private	20/03/2012	Email
Private	Wallis Buchan	Private	20/03/2012	Email
Private	Alan Smaldon	Private	20/03/2012	Email
Private	Ronald Coppin	Private	20/03/2012	Email
Private	Martin Heigendroff	Private	20/03/2012	Email
Private	Anthea Spowart	Private	20/03/2012	Email
Private	Antonieta Alves	Private	20/03/2012	Email
Private	Grant Salomon	Private	20/03/2012	Email
Private	Natalie Way-Jones	Private	20/03/2012	Email
eThekwini Municipality	Debbie Abel	Private	20/03/2012	Email
Private	TC Chetty	Private	20/03/2012	Email
Beetle Inc	Lee-Anne Wilkins	Private	20-03-2012	Email
Private	Creg Beaumont	Private	28-03-2012	Email
Private	C Rennie	Private	20/03/2012	Email

APPENDIX 16.4:

ADVERTS

636 Retirement Homes
666 To Let Garden Cottages

636 SOUGHT-AFTER RETIREMENT HOME! GARDEN GROVE ST THOMAS ROAD MUSGRAVE
 Delightful 1 bedroom flat, full kitchen, tiled bathroom, kitchenette & lounge, stunning views overlooking lovely gardens, close to school on the property.
 R500 000
 Call 082 492 1995 between 6pm & 9pm or send an sms

666 GLENWOOD
 2 bedrooms with fridge and oven supplied. Serviced once a week.
 Has its own drive in access & full size garage.
Available immediately
 R3 850
 Call 074 709 5606

670 To Let Simplex/Duplex
HILLCREST
 3 bed unit, secure golf course, 1500 sqm. Call 083 486 7020

604 Artisans/Trade
FILER Experienced filer/printer client required urgently for panel shop. Call 011 559 0011

613 Drivers
CODE 10 DRIVER
 Avail to let. Requirements: Valid code 10 Drivers Licence and motor. WOBZ. Call 082 919 3130

642 Stores/Warehousing
EXPERIENCED STOREMAN
 Required for flexible work. Strong skills needed. Fax 2 Page CV to: 082 959 9292

642 Technical
Service Technician - Medical Equipment
 Repair & maintain equipment in Hospitals. Valid code 8 Drivers Licence. Stock control knowledge. Technical skill. Call 082 959 9292

643 Sale in Execution
IN THE MAGISTRATE'S COURT FOR THE DISTRICT OF DURBAN
 Case No: 16438/2011

643 Sale in Execution
IN THE MAGISTRATE'S COURT FOR THE DISTRICT OF DURBAN
 Case No: 16438/2011

675 Tenders
INTENTION TO AWARD BIDS
 Bid No: 111/12
 Service: Appointment of a service provider to provide clearing services for the Department of Economic Development and Tourism - Head Office.

675 Tenders
INTENTION TO AWARD BIDS
 Bid No: 111/12
 Service: Appointment of a service provider to provide clearing services for the Department of Economic Development and Tourism - Tourist Offices.

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 Bid No: 111/12
 Service: Appointment of a service provider to provide clearing services for the Department of Economic Development and Tourism - Tourist Offices.

Accommodation
Accommodation
 ACCOM Luxury Water front flat avail daily. Contact 083 771 3618

WESTVILLE
 New big 2 bedroom cottage close to Westville Campus.
 R5 000 pm
 Call 082 557 6055

601 Staff Vacancies
ARTICLE CLERK
 SAICA & SAIPA Dynamic National Auditing firm is seeking the services of B.Com or B.Tech graduates to serve articles. Please call Jonty on (031) 2888800.

601 Accounts/Financial
VACANCY FOR PROJECT MANAGER
 Secure and growing Company based in Pinetown, we are expanding our road network and are looking for an experienced Project Manager to manage all aspects of our road network projects. Please email your CV to: info@pml.co.za

602 Admin Clerical
ADMIN CLERK
 Required for work in La Lucia. Must be computer literate and have experience between 8:00am and 4:00pm. Call 021 970 8099

602 General
Bandsaw Operator
 Min 5yrs exp. Working with wood. 'Sal' neg. Live in or out of town. Contact: 082 485 1009

602 Technical
Site Supervisor - HDPE Piping Installations
 Repairs & maintenance of HDPE piping in industrial areas. Must have a valid code 10 Drivers Licence. Call 082 959 9292

603 Rooms To Let
RESERVOR Hills Room
 100 sqm, 1 room, 1 bath, incl. V.O. To 078 804 3691

603 Rooms To Let
SEA COV Lake
 1 large room, 1 bath, incl. V.O. To 078 804 3691

603 Rooms To Let
WESTVILLE 1 Bed, part
 view, R3275.75. Call 021 970 8099

603 Rooms To Let
GLENHILLS
 Stunning 2 bedroom, fully furnished, fully fitted kitchen (Granite top), tiled bathroom, pool, fully fenced, aimed towards close to all amenities. 10mins to school. Call 082 459 6337

603 Rooms To Let
BLUFF
 Secure 1 bedroom flat with lounge.
 R3000pm including water and lights
 Available immediately.
 Call 078-877-7670

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0877 Domestic Employment Wanted

ROSITA efficient lady seeks fit h/keeping. Sleep out. Good references. **Phone 078 822 1090**

UN001901

Saliswa efficient h/keeper, loves kids, exp pet care seeks fit, s/o. 2yrs exp Refs **Phone 073 024 2328**

UN001811

Sindi reliable honest lady seeks fit h/keeping, Mon-Fri, s/out. Refs **Phone 078 503 5474**

UN001802

Sindi reliable hardworking domestic good with children seeks fit. Good refs. **Phone 072 599 0147**

UN001836

SINDISIWE seeks fit gen h/keeping & elderly care. Sleep in. Avail imm. **Phone 084 764 0991**

UN001990

SINDY reliable lady seeks fit h/keeping, child care, great cook, s/o. Refs avail **Phone 078 385 2932**

UN001869

SIZAKELE reliable lady seeks fit h/keeping, kids, pet, gardening **Phone 073 750 7570**

UN001925

0877 Domestic Employment Wanted

SIZANE hardworking lady seeks fit h/keeping, kids, elderly, cook, s/o. Refs **Phone 079 982 4514**

UN001923

STHOKOZA seeks fit domestic job, 5yrs exp. Sleep in. Good references. **Phone 072 499 4445**

UN001952

SYLVIA mature lady seeks fit h/keeping, sleep out. Traceable references. **Phone 078 425 5004**

UN001965

THABISILE reliable loyal lady seeks fit h/keeping child & elderly care, s/o. Refs **Phone 078 795 0712**

UN001816

THANDAZILE experienced lady seeks fit h/keeping, s/o in 15yrs exp. Good refs **Phone 079 645 0734**

UN001951

THANDEKILE seeks Mon-Fri gen h/keeping, gardening, s/o. 17yrs exp **Phone 081 311 0232**

UN001832

0877 Domestic Employment Wanted

Thandi dependable lady exp h/keeping, elderly & child care, pets, fit, s/out. **Phone 072 149 1486**

UN001776

THEMBEKA honest lady exp h/keeping, kids, pets, elderly, cooking, s/o. Refs **Phone 073 180 4510**

UN001875

THEMBELIHE seeks fit/pt child & pet care h/keeping, can cook, s/out. Refs **Phone 078 180 4510**

UN001978

Thembi honest lady, exp h/keeping 7 child care seeks fit job. God references. **Phone 079 331 6721**

UN001823

THENJIWE seeks fit h/keeping & child minding job, s/out. Avail imm. **Phone 084 449 0989**

UN001963

THOBEKA pleasant lady seeks fit h/keeping, 3yrs experience. Avail imm **Phone 083 439 0604**

UN001918

THOLA seeks Mon-Fri h/keeping job, child care. Good References. **Phone 073 393 6468**

UN001999

TREVOR dedicated h/keeper seeks fitime job. Exp child & elderly care, s/in. **Phone 083 383 6578**

UN001981

Tryphinah seeks pit gen h/keeping. 14yrs exp. Traceable references. **Phone 072 488 3275**

UN001792

VICTORIA seeks full time, very reliable. Employer relocating. Phone for reference 083-652-3203. **JH081128**

VICTORIA seeks fit h/keeping, great cook, loves kids, fitime. Avail imm. **Phone 072 408 4160**

UN001946

Virginia reliable lady seeks p A - Wed or Sat h/keeping job. 12yrs exp. Refs. **Phone 073 944 0893**

UN001816

VIRGINIA seeks pitime h/keeping. 13yrs experience. Avail imm. **Phone 079 030 2720**

UN001994

Xolisi dedicated loyal h/keeper seeks fit job, can cook. Good references. **Phone 072 816 3547**

UN001805

Zanele experienced maid, exp elderly care, cooking, f s/o, s/o 3yrs exp + Refs **Phone 073 387 7869**

UN001797

0877 Domestic Employment Wanted

ZANELE seeks pit h/keeping, exp child minder, elderly. Refs avail. **Phone 073 057 1144**

UN001613

ZETHU seeks fit h/keeping, good with kids & pet seeks s/o. Mon-Sat. **Phone 083 928 1514**

UN001945

Notice of Application for Basic Assessment
Notice is hereby given that an application for environmental authorization in terms of the EIA Regulations, 2010 (Regulations in terms of Chapter 5 of the National Environmental Management Act, 1998, as amended) has been lodged with the Department of Agriculture, Environmental Affairs and Rural Development.

Tongaat Hulett Developments propose to facilitate the construction of a new regional retail and mixed use development at Shongweni including the upgrading of affected roads and service infrastructure. The development will include a new regional retail centre, offices, business park and medium to high density residential units including expansive areas of rehabilitated open space and the promotion of sustainability measures. The coordinates for the proposed site are: 29°47'46.67"S and 30°44'46.77"E. The proposed activity requires application subject to a scoping and EIA and all interested and affected parties (I & APs) are invited to register with the contact person below within 14 days of the issuing of this notice. Representations with respect to this application may be made by phone, fax or e-mail. Please note that in order to continue to receive information regarding this project, you must register as an I & AP. A meeting may be held if requested. The time and venue of the meeting will be confirmed with registered I & APs.

Kerry Seppings Environmental Management Specialists cc
Contact: Treneil Sewraj
Phone: 031 769 1578
Fax: 031 769 1579
E-mail: kerry.seppings@telkomsa.net
Website: www.ksems.co.za



LADY PRESENTER (Kloof area)

This position could be yours, if you are computer literate and if you can work independently. You will also be responsible for managing the clinic as well as for the clinic's admin.

You must have matric, a valid drivers' license, your own transport and you must enjoy working with people.

We offer a basic salary of R6 000 per month PLUS commission! (Earning potential is R15 000+ pm)

Fax your CV to 086 524 4614
Closes on: 13/02/2012

DIE DIET WAARVAN ALMAL PRAAT THE DIET EVERYONE TALKS ABOUT

NOTICE TO CREDITORS IN DECEASED ESTATES

All persons having claims against the undermentioned estate must lodge it with the Executor concerned within 30 days (or as indicated) from date of publication hereof.

Estate No: 8323/2011/PMB
Master's Office: PIETERMARITZBURG

Sumname: HALL
Christian names: ETHEL PEGGY
Date of birth: 4 June 1923
Identity No: 230604 0027 087
Last address: THE CAMPHORS CARE CENTRE, 50 FISCHER ROAD, HILLCREST, NATAL, 3610
Date of death: 17 May 2011

B. Only applicable if deceased has been named in community of property / subject to the accrual system

Name and (only one) address of Executor or authorised agent
A J TAPPENDEN & CO, 18 McINTYRE STREET, PARROW, 7500

Period allowed for lodgement of claims, if other than 30 days.

Advertiser and address: A J TAPPENDEN & CO, 18 McINTYRE STREET, PARROW, 7500

Date: 23 January 2012
Tel No: 021-530 5060
AG052883

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Globe 19 700 Distributed Friday Month End

SOUTH COAST Sun 17 640 Distributed Every Thursday

SOUTHLANDS Sun 18 100 Distributed Every Tuesday

SOUTH COAST Herald 20 325 Print Order Distributed Every Thursday

(MID SOUTH COAST) Mail SOLD Distributed Every Wednesday

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OVERPORT RISING SUN 41 500 Copies Distributed on Wednesday Weekly

TONGAAT, VERULAM AND PHOENIX SUN 60 000 Copies Distributed on Thursday Weekly

LENASIA RISING SUN 33 000 Copies Distributed on Wednesday Weekly

MAYFAIR & FORDSBURG RISING SUN 25 000 Copies Distributed on Thursday Weekly

MID SOUTH COAST RISING SUN 20 175 Copies Distributed on Tuesday Weekly

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115 Escrom Road, New Germany

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Action packed weekend

PHAROS Summer Series at the Durban Shongweni Club got off to a great start last Wednesday.

Some of the 'big names' in equestrian circles competed in the first of the 13-week series including Tracy Galway (a former Olympic qualifier), Heidi Wood and Douglas Welsh, both of whom represented South Africa at the World Equestrian Games in Kentucky last year. The courses were designed by local course builder and showjumper Martin Taylor.

While some of the mountain bike riders enjoyed the personal challenge of doing as many laps as possible (the route has been re-designed and now incorporates some challenging single track sections), others were riding their hearts out to be potential winners of the Tomac Challenge - the person who completes the most laps during the series will win an amazing full suspension Tomac 29er mountain bike. Peter Lowry did the most laps last Wednesday, completing eight laps in total, easily clocking up 26.5km placing him in the lead, but with 12 more rides to go, the field is wide open.

The single-track speed challenge saw Mike Hande win the men's section, followed by Peter Lowry. Tiffany Keep took home the women's title which was closely contested by Bronwyn Friedman. These riders will be eligible to compete in the 'speed challenge finale' on the 25 April to win a three-day Wildcoat Mountain bike experience with single-track minded.

These events take place every Wednesday afternoon, with show-jumping from 2pm to 4.30pm, mountain bike lap riding with a kiddies loop from 4.30pm to 6.30pm and touch rugby from 5.30pm.

Take a nature hike

Sunday 12 February
GROMOR - starting from the Inchinga hotel, past the station and through the abandoned railway nursery, then up to the top of Bartlett's estate and down to Gromor.

Pay R20 for petrol and R10 to the conservancy. Leave Pine-town at 7am or meet at the Inchinga Hotel bottom gate at 7.30am.

Joint Ramblers Club hike.

Contact Jon the leader beforehand on 082 459 1522.

APPENDIX 16.5:
PROOF OF PUBLIC MEETINGS

PROJECT TITLE THD Summerfeld Shopping Centre
Venue Assagay Hotel

Date 22/03/2012
Time 17:30

Please print names clearly!

Dept / company / private	Name	Signed	Contact no	e-mail address
Client	Rory Wilkinson			
Assessing Officer	Lethwe Mabanga			
DAFF	Wiseman Rozani			
DWA	Renselle Pillay			
Eskom	Rajay Ramgoolam			
KZN Wildlife	Andy Blackmore			
Municipal Department of Thekwini	Diane Van Rensburg			
KZN Housing	Roy Ryan			
SANRAL	Casper Landman			
AMAFA	Waziwa Tshabalala			
Telkom	Gowinden			
MTN Tower	GARY JOHNSTON			
WESSA	Carolyn Schwegman			
Ward Councillor	PHEWA RICHARD ZIBANI	<i>P.P.</i>	<i>0829345622</i>	<i>pewor2@hotmail.com</i>




Propco	Grant McLeod			
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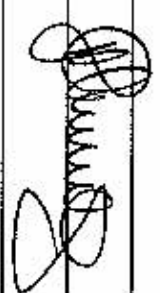



Please print names clearly!

Dept / company / private	Name	Signed	Contact no	e-mail address
Private	Denise Graham			
Private	Derek Bird			
Midprop	Ken Farn			
Private	Nora Chouveau	<i>N. Chouveau</i>	082 771 6324	<i>nac@pwwbtrust.org</i>
Hazyview Farm	Keith Standeven			
Private	John A Forbes			
Assagay Hotel	Cathy (Jake Jacobs)			
Private	Keith Rooss			
Private	P. Gillitt			
Private	John Butler			
Private	Lachlan Nicholson			
Private	Lynette Dorkin			
Plantations Estate	Vivienne Jennings			
Private	Sue James			

Rate Payers Association	Gillian Noyce		
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Please print names clearly!

Dept / company / private	Name	Signed	Contact no	e-mail address
Clifton Canyon Residents Association	Mr Brian von Sorgenfrei			
Western Rural Community Forum	Julie Knatten			
Giba Gorge Environmental Precinct	Chumisa Thengwa			
Ettrekvini Evaluation	Rakesh Ramjugan			
Private	Lillian Davis		0317681111	LTBIBROEAST@ASTR 024
Company	Lilian Daveling		031 9651134	Liliana Daveling@ast.024 34
Envirovest	Alan Childs			
Company	Alan Dawson			
Private	Colleen & Richard Whitton			
Private	Vanessa Holmwood			
Private	Lyns & Garth Hill			
Aintree Lane Complex	Maurice Morgan		0774398258	Maurice Morgan preferred 00.24
Highbury School	Melissa Van Rooyen			
CV Makeovers	A. Tigar			

Private	Sally Fletcher				
Private	Judith McDowell		terrymcd@ibyrnia.com	082 673 4619	
Private	Precious Smopha				
Waterfield Farm	John				
Waterfall Shopping Centre	Simon Pithcher				
Private	Naseem Jaewa				
Development Planners	Braun Amar Singh	D. S. SOX 215 6 months	082 4704 469		
Private	Pat Witherow				
Private	Fos Pammenter		082 851 5970	fos.pammenter@talksonsa.net	
Private	Brian & Marilyn				
Private	Sonya Keyser				
Private	John Cox				
Private	Walls Buchan				
Private	Alan Smalden				
Private	Ronald Coping				
Private	Martin Heiligendroff				
Private	Anthea Spowart		083 262 7942	tax@mgact.co.za	
Private	Antonieta Alves		072 454 2818	ant@alves@SO4Kopco	

SO4Kopco
Za




Private	John Schimper	<i>John Schimper</i>	082 8007 812	<i>HS my life @ Estoria.net johnschimper</i>
Chairperson (Shangwen Club)	Anton Mostert			
Polo Pony Station	Eric			
MalaMala Ranch	Liz Archibald			
Cox Yeats	Alastair Hay			
Mahasiddha Kadempa Buddhist	Kaisang Jampel			
Private	Pam Flanagan			
Compass Waste Services	Nicholas Haam			
Private	John Dovey			
Private	Dave and Jo Sobey			
Private	Alison Duncan			
Bothas Hill Residents Assoc	Peter DAVIES			
Private	MARK A JASON			
Net Vendor	Mary Ann			
Private	Terry			
Private	Grant Larell			
Private	Karen and Cassian Bodley			
Waterfall and Link Hills Shopping Centre	Derek Scott Robins			

Beetle Inc.	LeeAnne Williams		031-2662410	lee@beetleinc.com
Beetle Inc	Rachel Matthews		081-266 2410	rachel@beetleinc.com
Bibby Shawcross	Tommas Mulet		031-560 1937	shedi.shawcross@bryant.com
Nobori Okuma	Tomoko Hatt		031-5601925	nobori.okuma@tomoko-hatt.com
Mary Cline	Dr. TMS		031-7653842	mary@xsmet.co.za
David Johnson	TMS		031-5601923	
Tony Louglin			031-7652758	ian@jod.co.za
Saver Barer	Dr		031-52202845	save@save.com
SRINATH	DRS. DAVUR		084 606 3827	FRANZ-RD
	DON MICHONAS		084 645 7005	donmichonas@toyota.co.za
Kimree Lane	Babe Ramollo		079 2696603	mpolokeng.ramollo@odpu.gov.za
Chie Kawan Administration	The Mabele Administration		031 511 2715 071 850 7248	chie@chiekawan.co.za
Private	Karen Bodley		072 237 6360	karnbodley@gmail.com

PROJECT TITLE THD Summerfeld Shopping Centre
Venue Assagay Hotel


Date 22/03/2012
Time 17:30

Please print names clearly!

Dept / company / private	Name	Signed	Contact no	e-mail address
Client	Rory Wilkinson		0832 784 204	Rory.Wilkinson@thd.co.za
Assessing Officer	Lethibe Mabanga			
DAFF	Wiseman Rozani		033 342 0761	WisemanRozani@daff.gov.za
DWA	Renelle Pillay			
Eskom	Rajay Ramgoolam			
KZN Wildlife	Andy Blackmore			
Municipal Department - eThekweni	Diana Van Rensburg			
KZN Housing	Roy Ryan			
SANRAL	Casper Landman			
AMAFA	Weziwe Tshabalala			
Telkom	Govindan			
MTN Tower	GARY JOHNSTON			
WESSA	Carolyn Schwegman			
Ward Councillor	PHEWA RICHARD ZIBANI		08293 456 22	Phewarz@networld.com

Proposo	Grant Nicolod			
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Please print names clearly!

Dept / company / private	Name	Signed	Contact no	e-mail address
Private	Deitise Graham			
Private	Derek Bird			
Motorop	Ken Farm			
Private	Mora Chouveau			
Hazyview Farm	Keith Standeven			
Private	John A Forbes			
Assagay Hotel	Cathy (Jake Jacobs)			
Private	Keith Roass			
Private	P. Gillitt			
Private	John Butler			
Private MILLCROFT BUREAU MILLS ROAD	Lachlan Nicholson		076 385 2335	Lachlan.Nicholson@P.Rossme
Private	Lynette Dorkin			
Plantations Estate	Vivienne Jennings			
Private	Sue James			



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ROSSME


Private	Sally Fletcher			
Private	Judith Medowall			
Private	Precious Smaphe			
Waterfield Farm	John			
Waterfall Shopping Centre	Simon Pitcher			
Private	Naseem Jaewa			
Development Planners	Prawin Amar Singh			
Private	Pat Witherow			
Private	Ros Parmentier			
Private	Brian & Marilyn			
Private	Sonya Keyser			
Private	John Cox			
Private	Walls Buchan			
Private	Alan Smalton			
Private	Ronald Cappin			
Private	Martin Heilgerdrot			
Private	Arthas Spowart			
Private	Antonietta Alves			

Agnes
Ronald Cappin

Proprio	Grant Meleod			
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Please print names clearly!

Dept / company / private	Name	Signed	Contact no	e-mail address
Private	Darise Graham			
Private	Derek Bird			
Molprop	Kan Fann			
Private	Nora Choveaux			
Hazyview Farm	Keith Standeven		082-856-2511	forbesj@eastcoast.co.za
Private	John A Forbes			
Assagay Hotel	Cathy (Jake Jacobs)		031-7656176	newhamcrow@gmail.co
Private	Keith Roass			
Private	P Gillin			
Private	John Butler			
Private	Lachlan Nicholson			
Private	Lynette Dorkin			
Plantations Estate	Wivienne Jennings			
Private	Sue James			

Private	John Schimper			
Chairperson (Shogweni Club)	Anton Mostert			
Polo Pony Station	Eric			
MajaMaja Ranch	Liz Archibald			
Cox Yeats	Alastair Hay			
Mahasiddha Kadampa Buddhist	Kelsang Jampel			
Private	Pam Flanagan			
Compass Waste Services	Nicholas Hearn			
Private	John Dovey			
Private	Dave and Jo Sobey			
Private	Alison Duncan			
Bothas Hill Residents Associa	Peter DAVIES			
Private	MARK A JASON			
Net Vendor	Mary Ann		0843237402	mary@netvendor.co.za
Private	Terry			
Private	Grant Lareit			
Private	Karen and Cassian Bodley			
Waterfall and Link Hills Shopping Centre	Derek Scott Robins	DSK	0841004670	derek@dhmsg.com

Jason Halden.com

Private	Sally Fletcher			
Private	Judith McDowell			
Private	Precious Simophe			
Waterfield Farm	John			
Waterfall Shopping Centre	Simon Pitcher			
Private	Nabeem Jaewq			
Development Planners	Pravin Anwar Singh			
Private	Pat Witherow			
Private	Ros Parmenter			
Private	Brian & Marilyn			
Private	Sonya Kayser			
Private	John Cox			
Private	Walls Buchan			
Private	Alan Smaildon			
Private	Ronald Copping			
Private	Martin Heiligendroff			
Private	Arthea Spewart			
Private	Antonieta Alves			

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0724542818

antivalves@sonutop.co.z

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Private	Grant Salomon					
Private	Natalie Way-Jones		<i>M. Jones</i>		0832546602	nalsw@qmail.com
eThekweni Municipality	Debbie Abel		<i>Debbie</i>			
Private	Daidra & Salomon Oosthuizen		<i>Debbie</i>		0731709307	Heerin B
Private	TC Chetty					
Private	Simon Hemmingway					
Private	Andrew Walford					
Private	Dave Smith					
Private	Larry & Elaine Vermaak					
Board of Highroad Country Estate	Bob Allen					
HILLCREST CONSERVANCY	S.L. VICTOR		<i>S.L. Victor</i>		0739013902	GEORGEVIC@TELKOM.SI
APP KRISTOFFER WILSON BENJAMIN	ALAN DAWSON		<i>ALAN DAWSON</i>			
PRIVATE	ERIKY WOOD		<i>ERIKY WOOD</i>		0825585118	eriky@qpp.net
PRIVATE	KENJ SAKKA		<i>KENJ SAKKA</i>		08231067M	olamen@qpp.net
Private	C. Kauri		<i>C. Kauri</i>		0836322191	CAIQREN@VONMURR.CO.ZA
Private	G. Pennie		<i>G. Pennie</i>		0836322151	gail.ellis@qpp.net
"	TC CHETTY		<i>TC CHETTY</i>		0832643134	tc.chetty@tea.co.za
Developer	G.M. Meyer.		<i>G.M. Meyer</i>		0828000943	gmeyer@zmail.co.za



ENVIRONMENTAL IMPACT ASSESSMENT (EIA)

**Proposed construction of a centre for retail/mixed use
development on Rem of the farm Kirkfalls No. 14227 in Durban**

EIA Number: DM/0003/2012

Public Meeting - 22nd March 2012

Agenda

- ▶ **EIA Process**
- ▶ **Brief Description of Proposed Development**
- ▶ **Comments and Issues to be Discussed for
inclusion in the Scoping and EIR**

Introduction

- ▶ **Introduction to EIA Process – The main aim is to assess the proposed development by**
 - modify and improve the design
 - identifying key impacts and measures for mitigating them
 - Inform decision making and condition setting
 - Avoid serious and irreversible damage to the environment and
 - Protect human health and safety

- ▶ **The Environmental Authorisation is not the only authorisation required that may be required**

- ▶ **Important Stakeholders**
 - Applicant -THD
 - EAP - KSEMS cc and various specialists
 - I & AP – organisations and government bodies
 - Authorising Body

Some important information

- ▶ **What is the outcome of the EIA process?**
 - 3 possible outcomes
- ▶ **What real input can I&AP have?**
- ▶ **Can you just object?**
- ▶ **What recourse does I&AP have?**
- ▶ **What are limitations of the EIA process? Can't answer all development queries – has to be activity specific often not able to effectively deal with strategic development issues?**
- ▶ **How can I&AP ensure comments are included?**
- ▶ **The EAP is paid for by the applicant – how can the I&AP be sure that the EAP is independent?**
- ▶ **Legal Responsibilities of I&AP to follow.**

Responsibilities of I & APs

- ▶ **Registered I & APs are entitled to comment, in writing, on all written submissions made to the authority and to raise any issues that they believe may be of significance provided that:**
 - **comments are submitted within the timeframes set by the competent authority or extensions of timeframes agreed to by the applicant or EAP;**
 - **a copy of comments submitted directly to the competent authority is served on the applicant or EAP; and**
 - **the I & AP discloses any direct business, financial, personal or other interest which that party may have in the approval or refusal of the application**

Proceedings for today ?

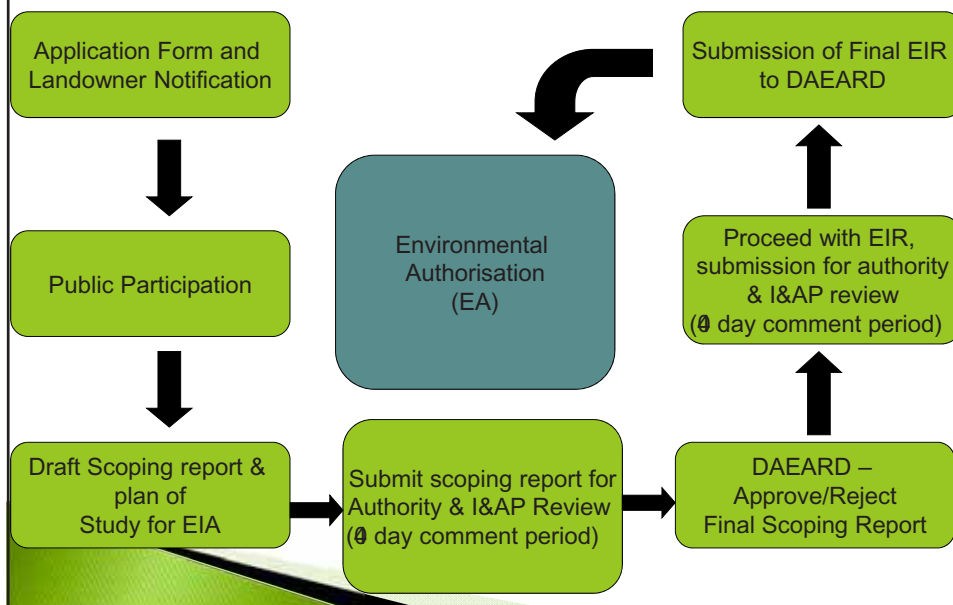
- ▶ **Manogrie going to go through the technical aspects of the EIA process and information on the proposal.**
- ▶ **Not detailed because does not exist at this stage.**
- ▶ **End result will be influenced by EIA process and studies done for it.**
- ▶ **First opportunity to provide input – many more!**
- ▶ **Keep questions to end – answer what we can and remainder will be addressed in minutes.**

Environmental Impact Assessment (EIA)

► What is it?

- Tool for assessing the potential environmental impacts of a project/development.
- The environment includes people, nature, air, and the economy.
- The findings of the assessment are used to help authorities & decision-makers make an informed decision about the project/development.
- The EIA is governed by a set of regulations called the National Environmental Management Act.
- The act identifies two types of environmental assessments i.e. Basic Assessment (BA) & Scoping and EIR (S & EIR).

Scoping & EIR process



Legal Requirement for S & EIR

As per the NEMA EIA regulations, the proposed development requires a Scoping & EIR process due to the following:

- ▶ **GNR 545 (Activity 15) - Physical alteration of undeveloped, vacant or derelict land for residential, retail, commercial, recreational, industrial or institutional use where the total area to be transformed is 20 hectares or more;**
- ▶ **GNR 544 (Activity 11) - The construction of:**
 - bulk storm water outlet structures;
 - building exceeding 50 square metres in size;
 - infrastructure or structures covering 50 square metres or more

where such construction occurs within a watercourse, OR WITHIN 32m of a watercourse, measured from the edge of a watercourse,

Process to date

- ▶ **Application form submitted to DAEARD on the 1st March 2012**
- ▶ **Public Participation commenced on the 3rd February 2012 (Notification of neighbours)**
- ▶ **I & Aps were notified by either email / fax from the 6th February 2012**
- ▶ **The application was advertised in the Mercury and the Highway Mail**
- ▶ **The following authorities were notified by fax or email:**
 - eThekweni Municipality
 - KZN Wildlife
 - DWA
 - DAFF
 - ESKOM
 - SANRAL
 - KZN DOT
 - AMAFA
 - WESSA
 - Rate Payers Associations
 - Conomirra
 - Ward Councilors



English Advert – The Mercury and Highway Mail

10 February 2012 **Highway MailSport**

THE MERCURY Monday February 6 2012

Notice of Application for Basic Assessment
Notice is hereby given that an application for environmental authorization in terms of the EIA Regulations, 2010 (Regulations in terms of Chapter 5 of the National Environmental Management Act, 1998, as amended) has been lodged with the Department of Agriculture, Environmental Affairs and Rural Development.

Tongaat Hulett Developments propose to facilitate the construction of a new regional retail and mixed use development at Shongweni including the upgrading of affected roads and service infrastructure. The development will include a new regional retail centre, offices, business park and medium to high density residential units including expansive areas of rehabilitated open space and the promotion of sustainability measures. The coordinates for the proposed site are: 29°47'46.67" S and 30°44'46.77" E. The proposed activity requires application subject to a basic assessment and all interested and affected parties (I & APs) are invited to register with the contact person below within 14 days of the issuing of this notice. Representations with respect to this application may be made by phone, fax or e-mail. Please note that in order to continue to receive information regarding this project, you must register as an I & AP. A meeting may be held if requested. The time and venue of the meeting will be confirmed with registered I & APs.

Kerry Seppings Environmental Management Specialists cc
Contact: Trenell Sewraj
Phone: 031 769 1578 **Fax: 031 769 1579**
E-mail: kerry.seppings@telkomsa.net
Website: www.ksems.co.za

Notice of Application for Basic Assessment
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Kerry Seppings Environmental Management Specialists cc
Contact: Trenell Sewraj
Phone: 031 769 1578
Fax: 031 769 1579
E-mail: kerry.seppings@telkomsa.net
Website: www.ksems.co.za

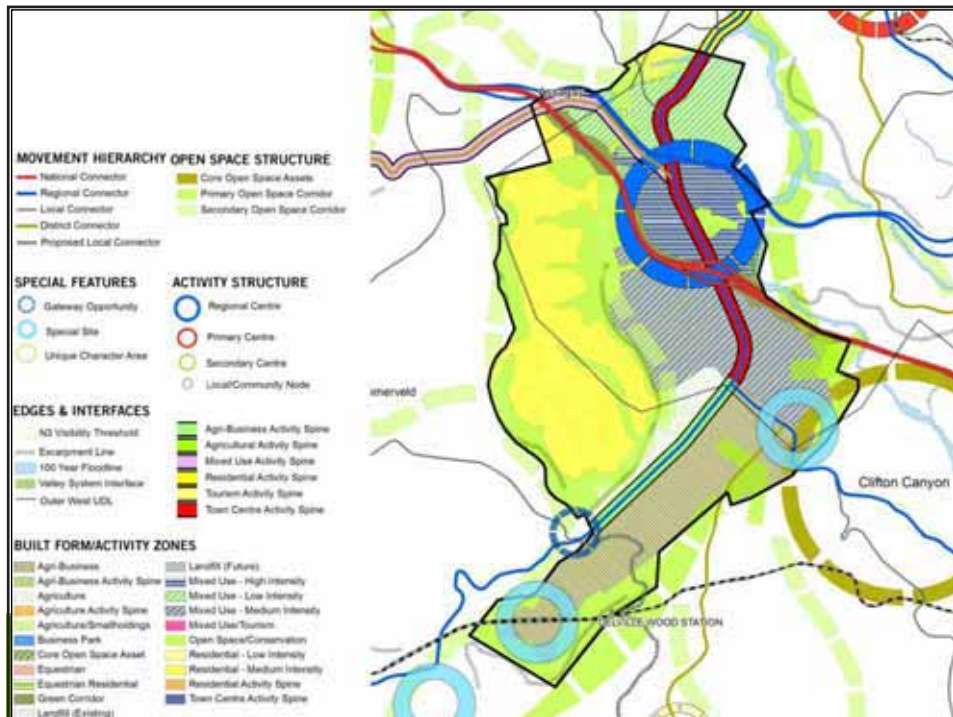
Proposal

- ▶ **Tongaat Hulett Developments (THD) propose to facilitate the construction of a new regional retail and mixed use development at Shongweni including the upgrading of affected roads and service infrastructure.**
- ▶ **The development will include a new regional retail centre, offices, business park and medium to high density residential units including expansive areas of rehabilitated open space and the promotion of sustainability measures.**



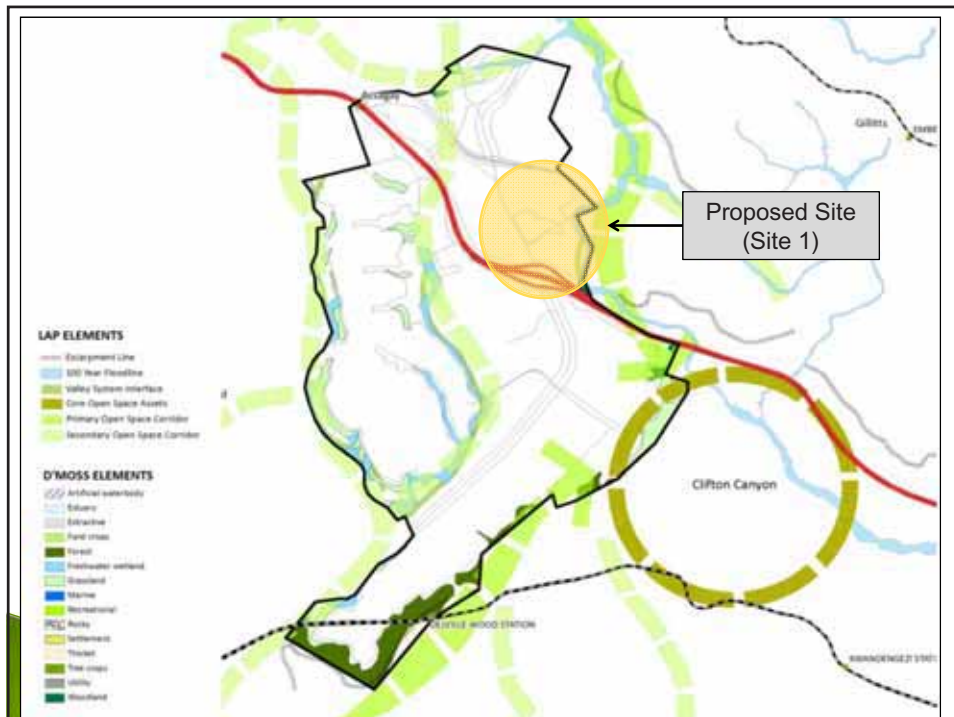
Background

- ▶ The eThekweni Municipality has identified a need for a commercial development on the preferred site, which is located between the N3 and the M13.
- ▶ The preferred site is located within the Central Eastern precinct (Town Centre Precinct) and has been identified for the following in terms of the Shongweni Local Area Plan (LAP):
 - Commercial: Mixed Use – Medium Intensity: this allows for a regional centre, office park development and also includes a residential component.
- ▶ The proposed development will also be located within the regional centre as identified in terms of the LAP



Background

- ▶ In line with the LAP, the proposed development will also include expansive areas of rehabilitated open space (i.e. DMOSS and wetland areas) and the promotion of sustainability measures.



Background

- ▶ **The Kassier Road / M13 interchange is currently operating beyond acceptable levels of service (Shongweni LAP, 2010 – Revert B).**
- ▶ **THD propose to upgrade affected roads (i.e. the Kassier and M13 and N3 interchanges) as part of the development.**

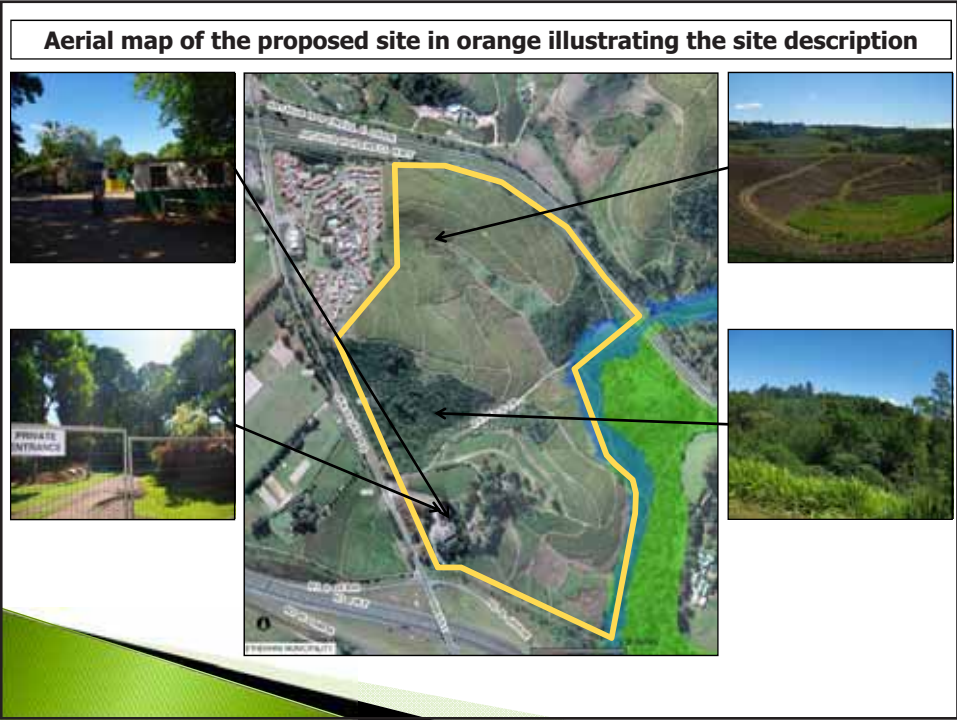
Alternatives

- ▶ **Proposal: Construction of a new regional retail and mixed use development at Shongweni including the upgrading of affected roads and service infrastructure**
 - **Three site alternatives have been identified and will be investigated in the Scoping and EIR.**
 - **At present, there are no layout options, this will be further investigated in the EIR, if required.**



Site Description (Site 1)

- ▶ **The site is located between the N3 and the M13.**
- ▶ **The site is currently used for agricultural purposes (i.e. for sugar farming).**
- ▶ **The site is surrounded by the Aintree residential complex to the North West, the M13 to the North, the N3 to the South, Kassier Road to the East and the DMOSS area to the East and South East.**
- ▶ **The uMhlatuzana River flows along the eastern boundary of the proposed site.**

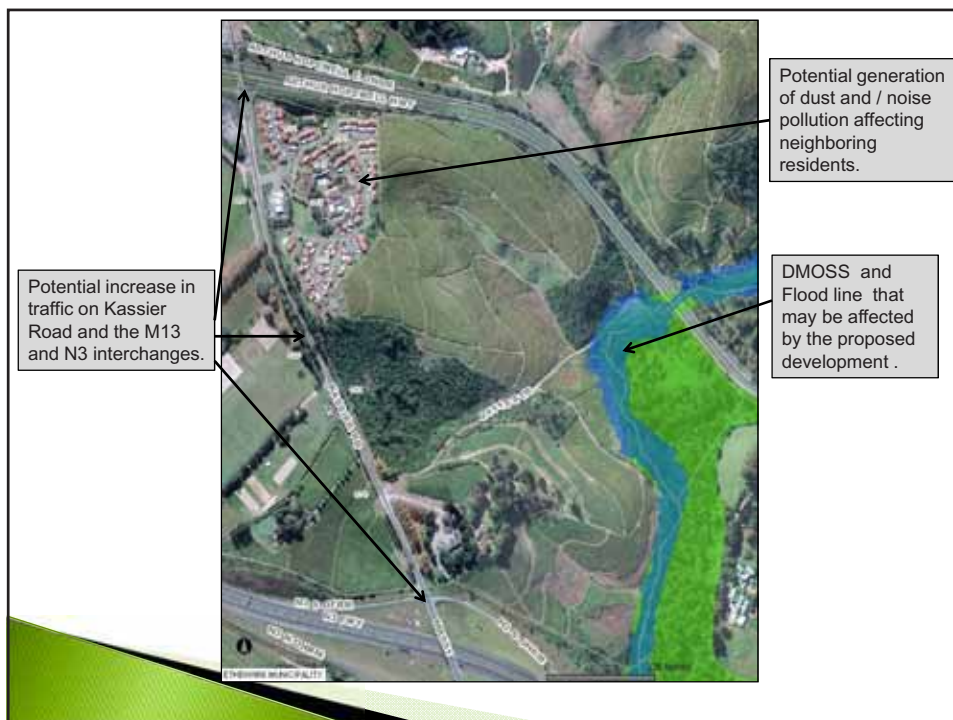


Potential Impacts and Mitigations for Investigation – Construction

Potential Impact	Mitigation Measures
Generation of dust, solid waste and noise pollution.	This will be controlled with an EMPr.
There may be an increase in traffic.	Will need to be carefully controlled through flagman, timing of vehicles etc.
Potential impact on environmentally sensitive areas i.e. wetland, river, drainage line, DMOSS.	Buffers will be implemented. This will be controlled with an EMPr.

Potential Impacts and Mitigations for Investigation – Operation

Potential Impact	Mitigation Measures
Potential contamination of DMOSS and wetland areas.	This will be controlled with an operational EMPr.
Potential increase in traffic.	A traffic impact assessment will be undertaken to minimise the potential impact. This will be controlled with and operational EMPr.
Increase in service capacity (i.e. sewer, water, electricity)	This will be discussed further in the Scoping and EIR. The site will be serviced by eThekwin Municipality where possible.



Potential Impacts and Mitigations for Investigation – Operation (Positive Impacts)

Potential Impact	Mitigation Measure
Potential increase in property values.	Positive impact – no mitigation measure required.
Potential for future investment & employment opportunities in the area as a result of the proposed development.	Positive impact – no mitigation measure required.
Upgrade of service infrastructure.	Positive impact – no mitigation measure required.

Conclusion

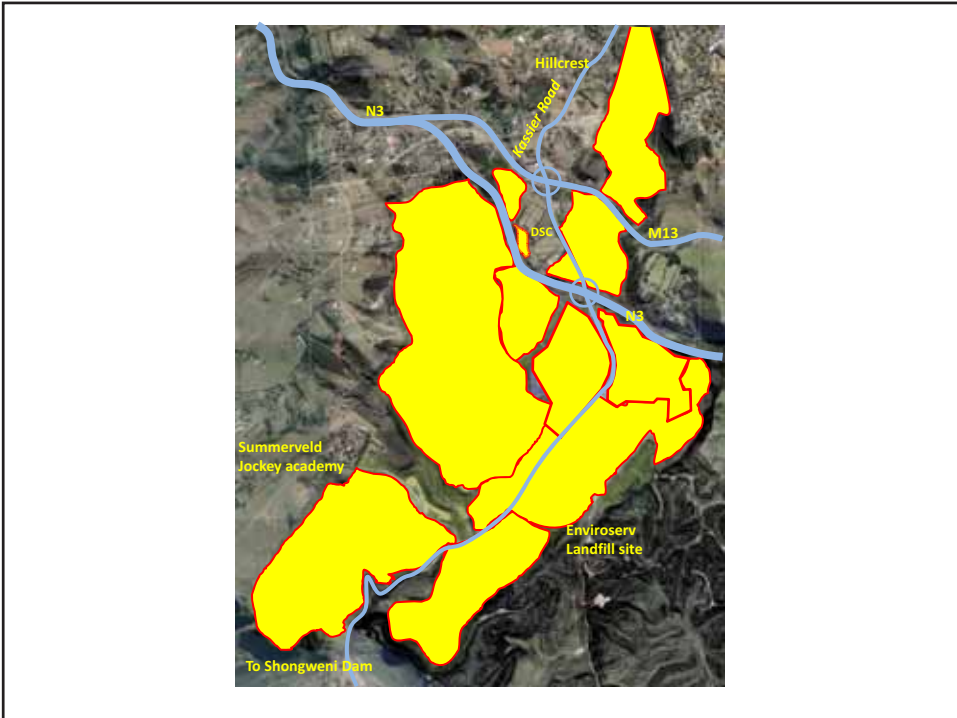
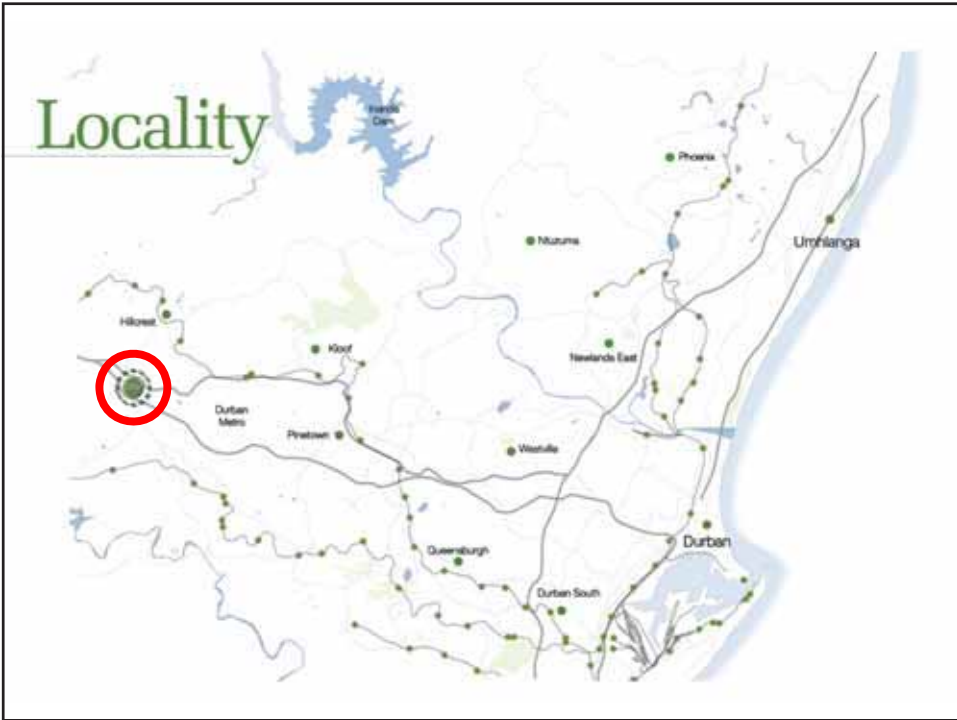
- **Impacts and mitigation measures will be further investigated in the scoping report and EIR**
- **Additional issues or comments will form part of the investigation into the impact of the proposed development**

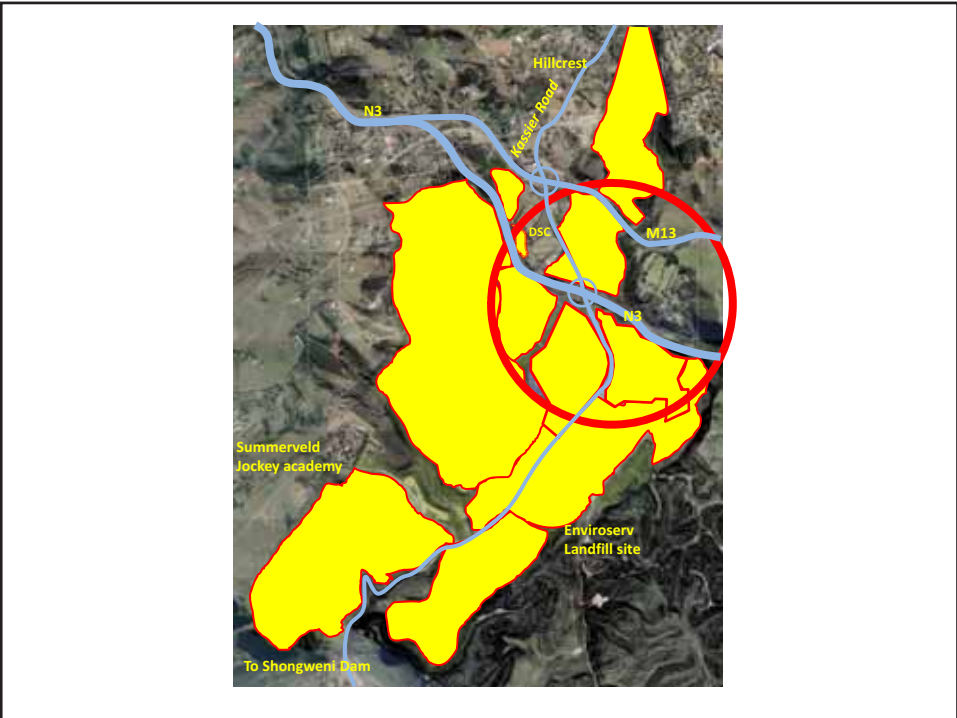
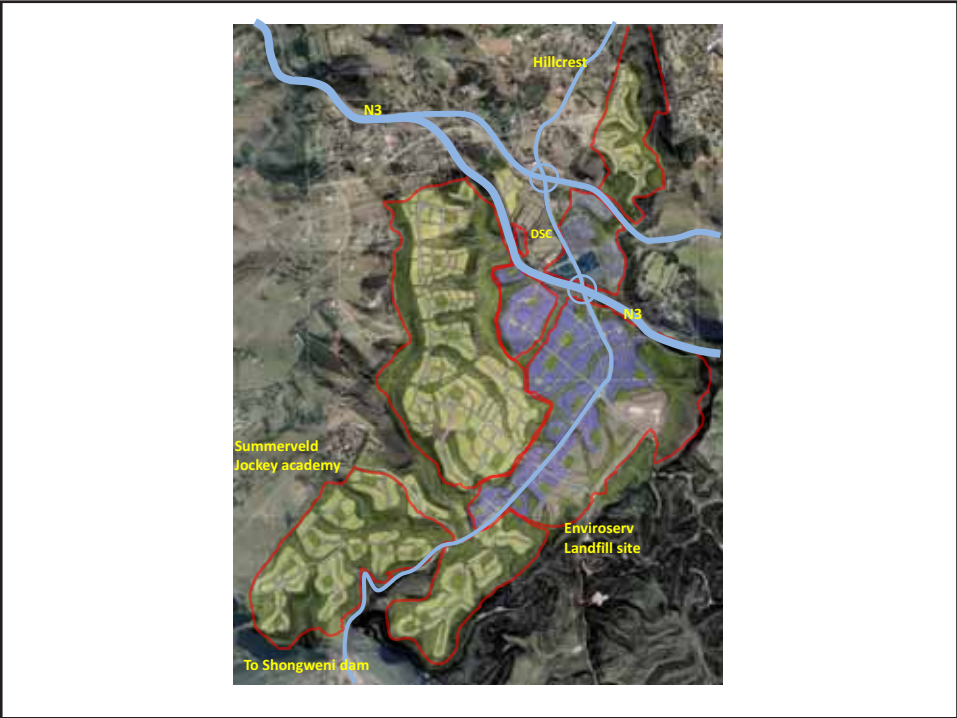
Comment and Response Period

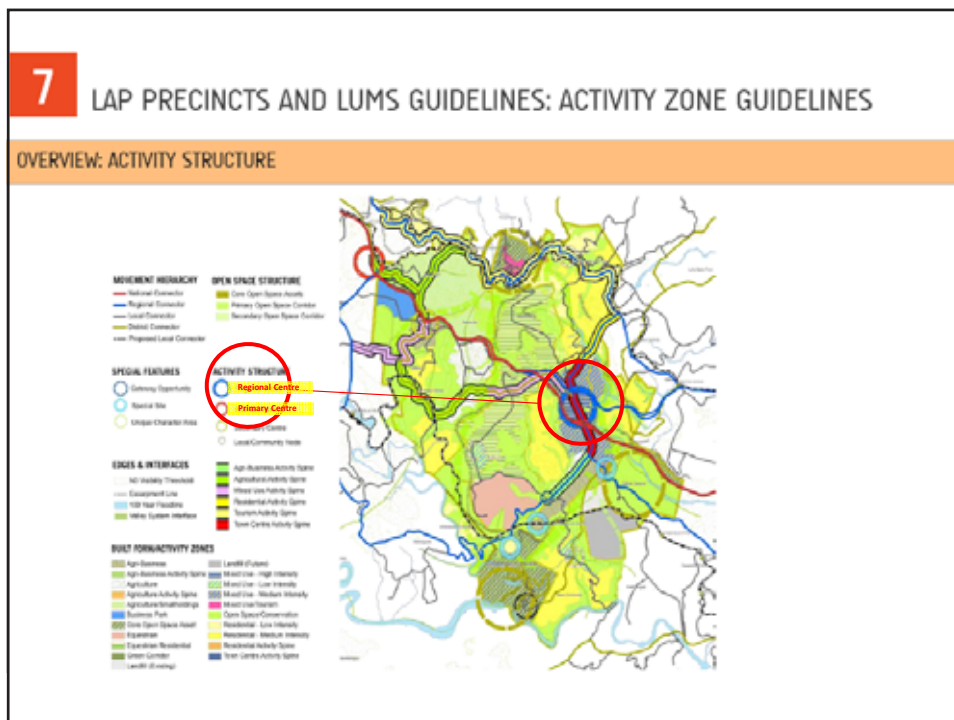
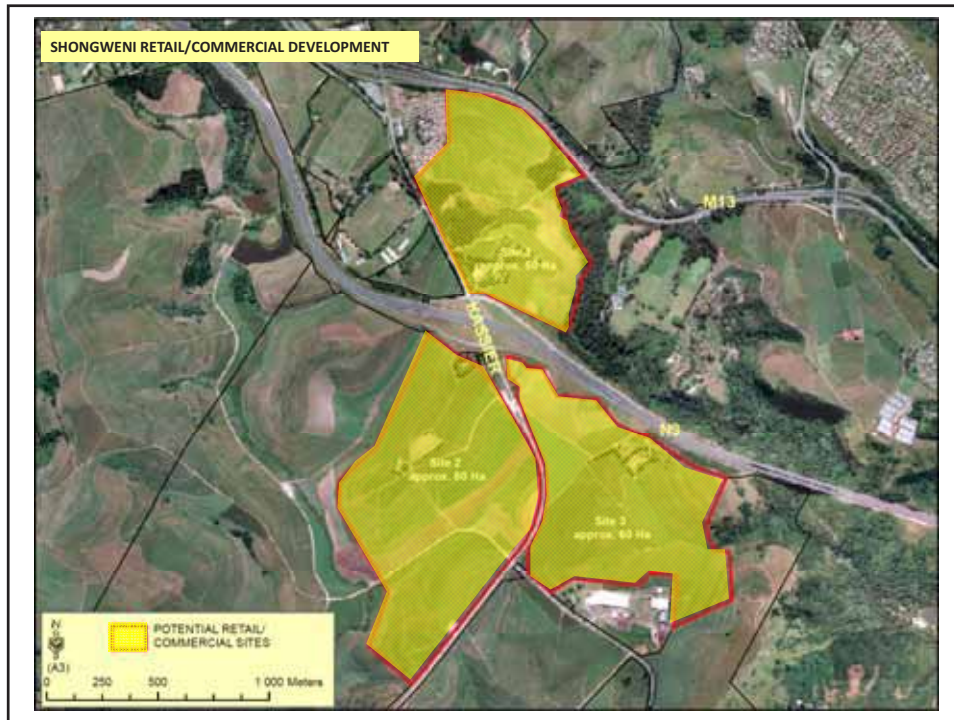
**Please state name and organisation
before commenting so that all
comments can be accurately
recorded.**

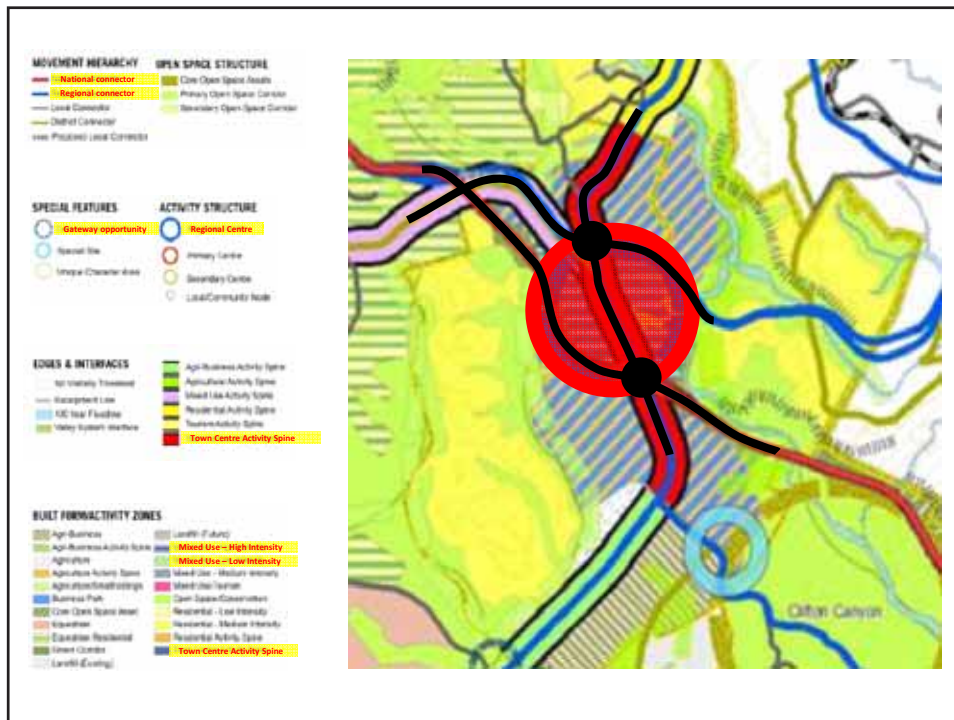
**A copy of the presentation can be
uploaded from www.ksems.co.za**

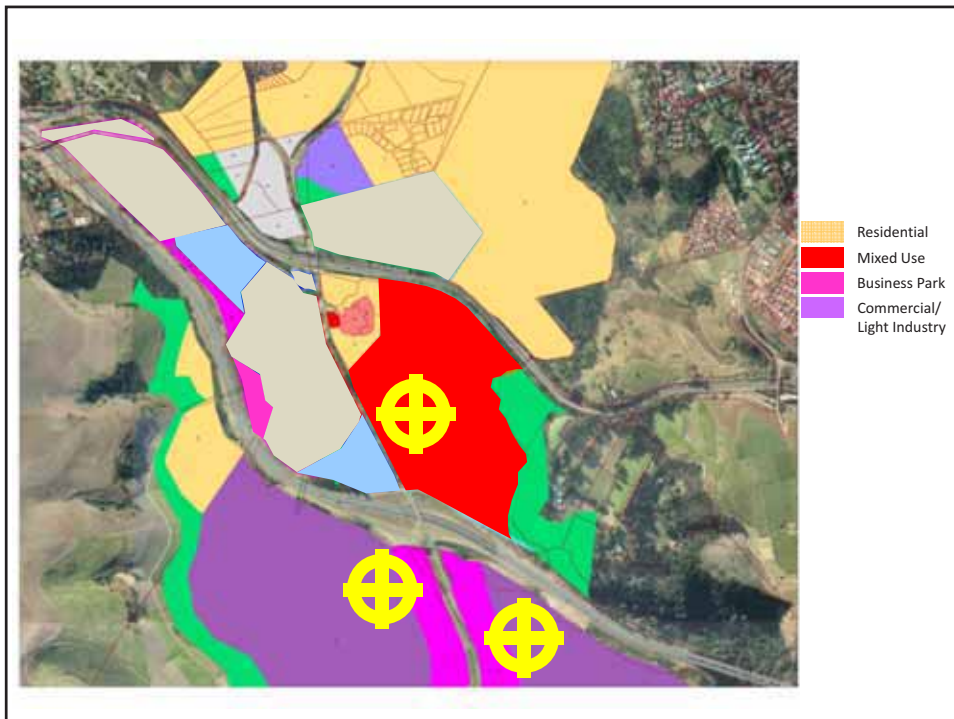
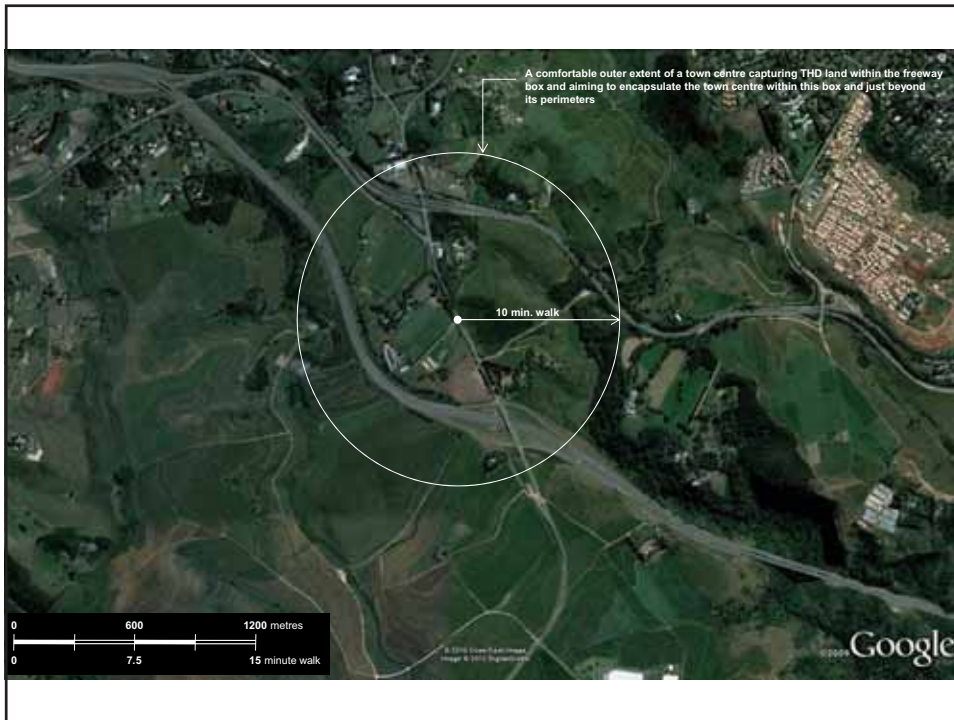
THE END

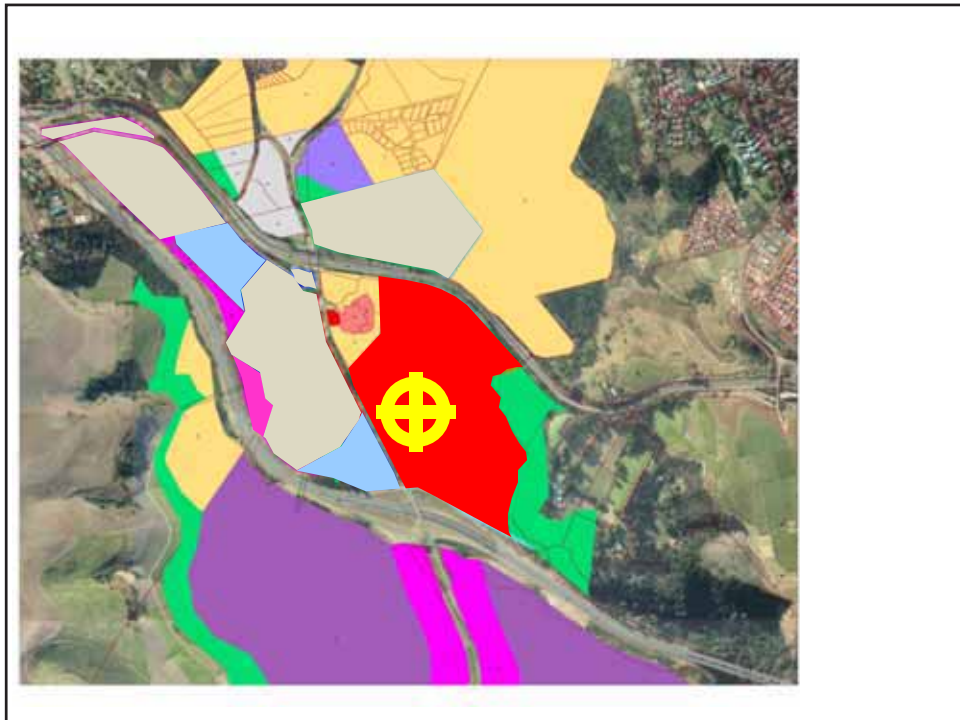


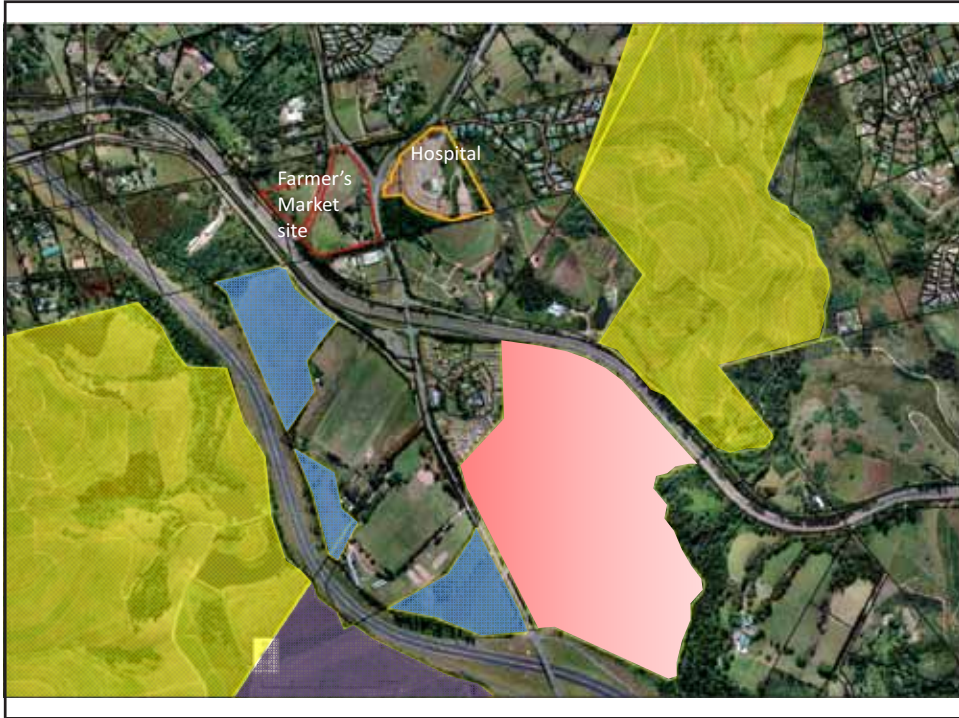


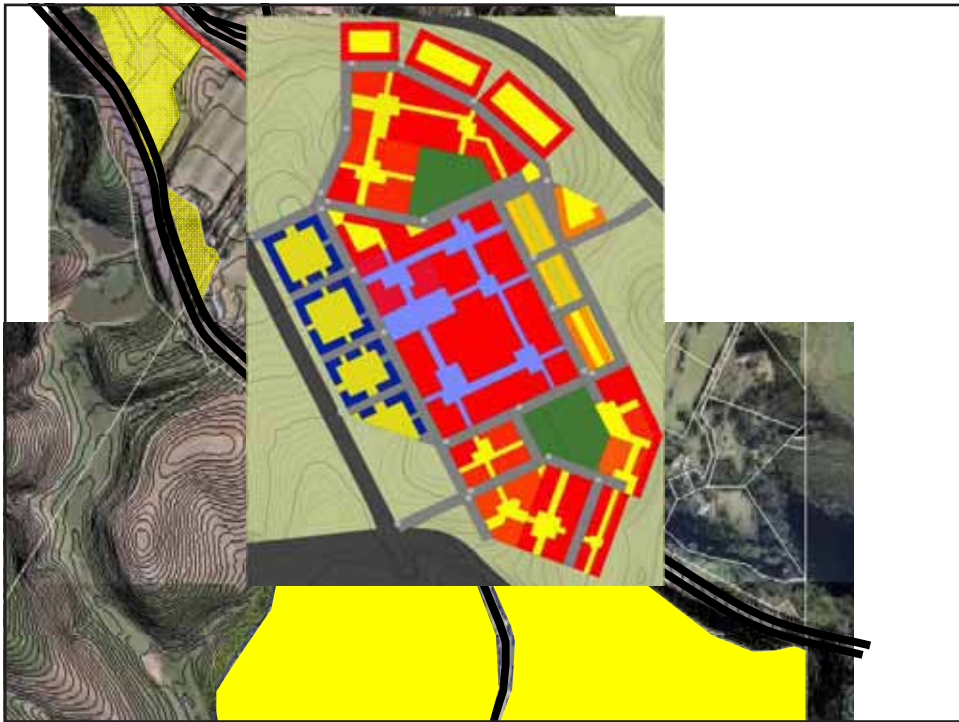


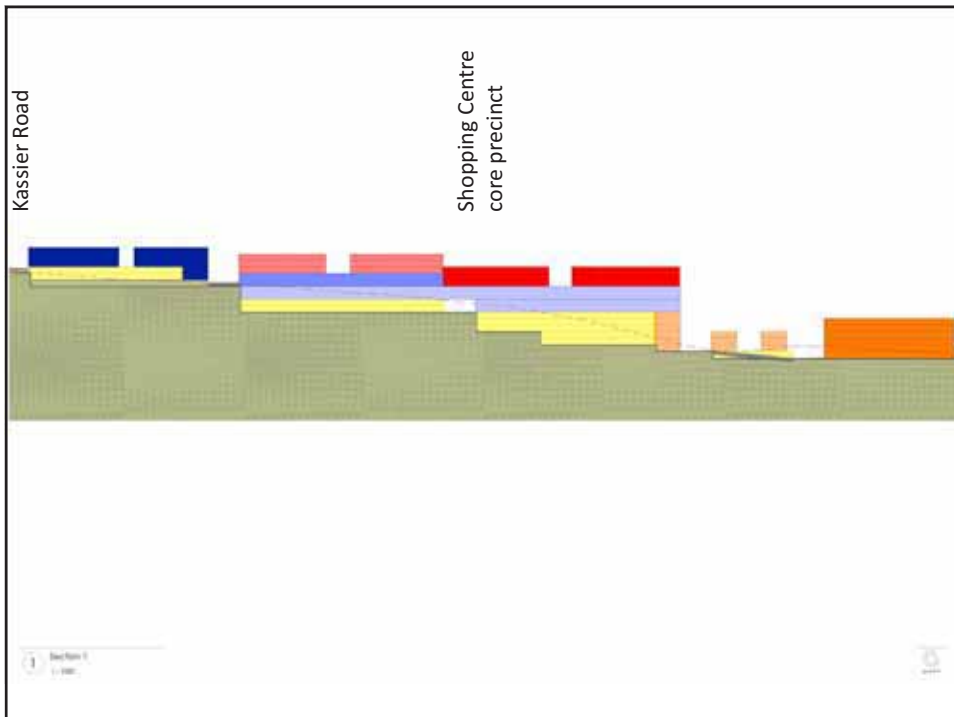
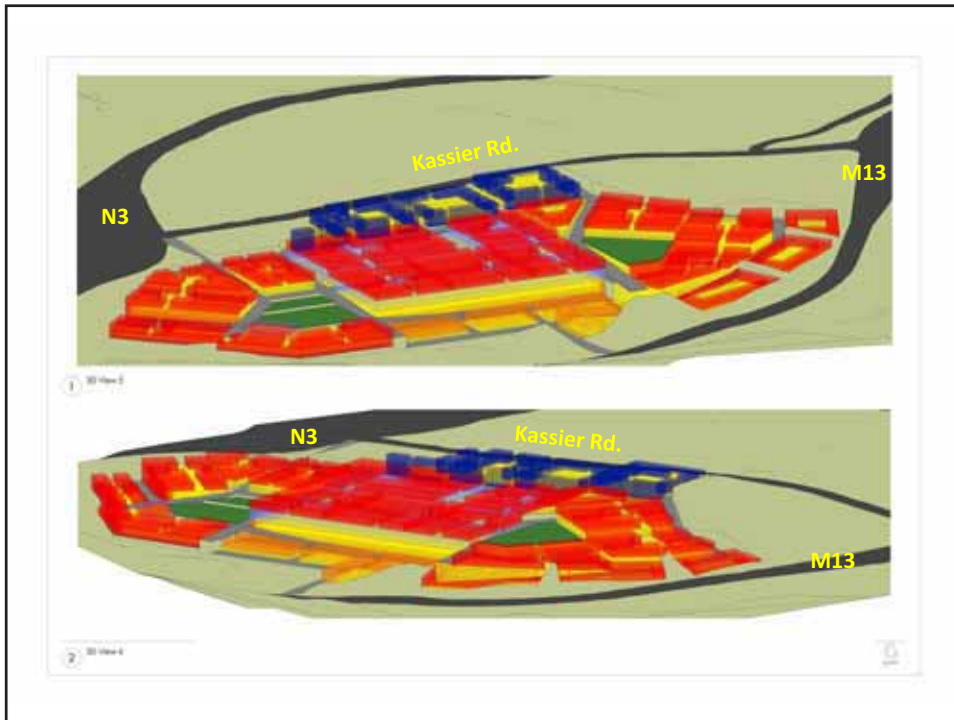


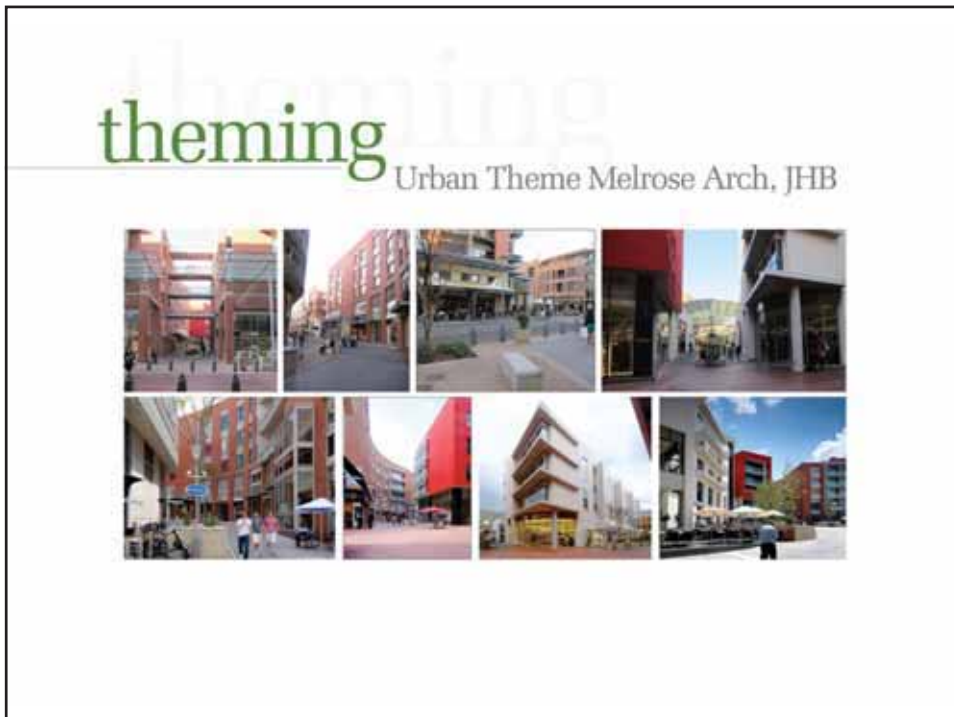
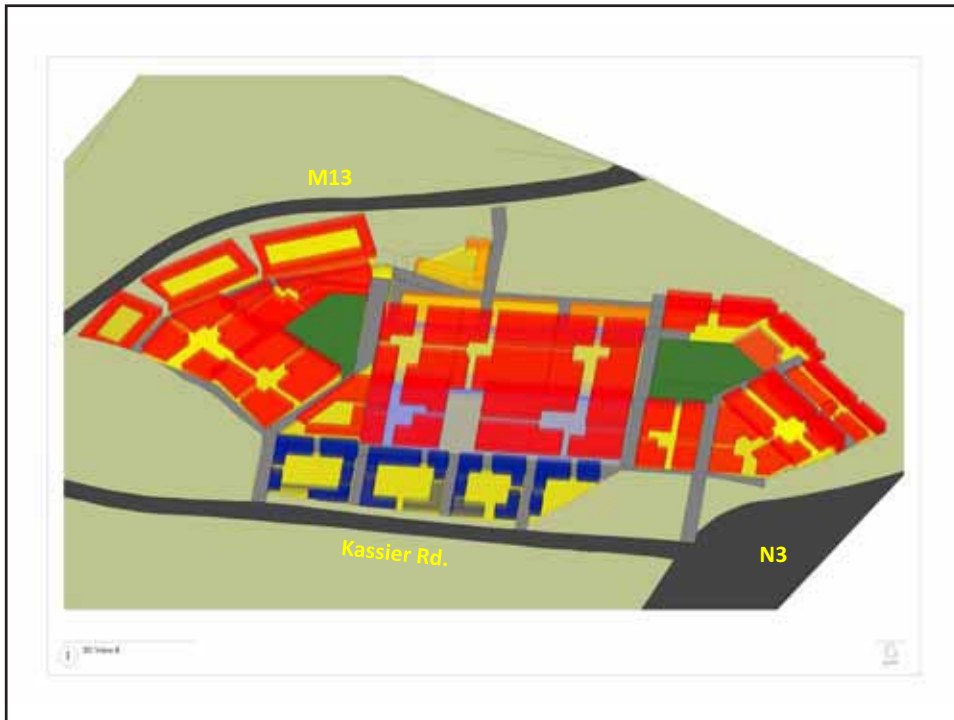












urban design framework



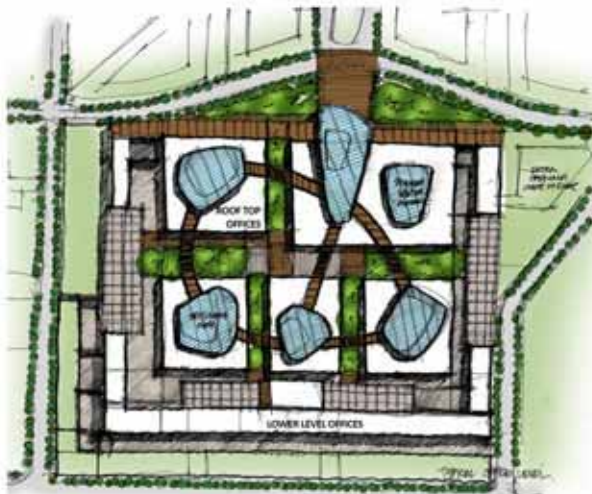
upper level mall plan



Area Schedule

Lower Level Mall	50,000m ²
Upper Level Mall	50,000m ²
Value Mall	25,000m ²
Total	125,000m ²

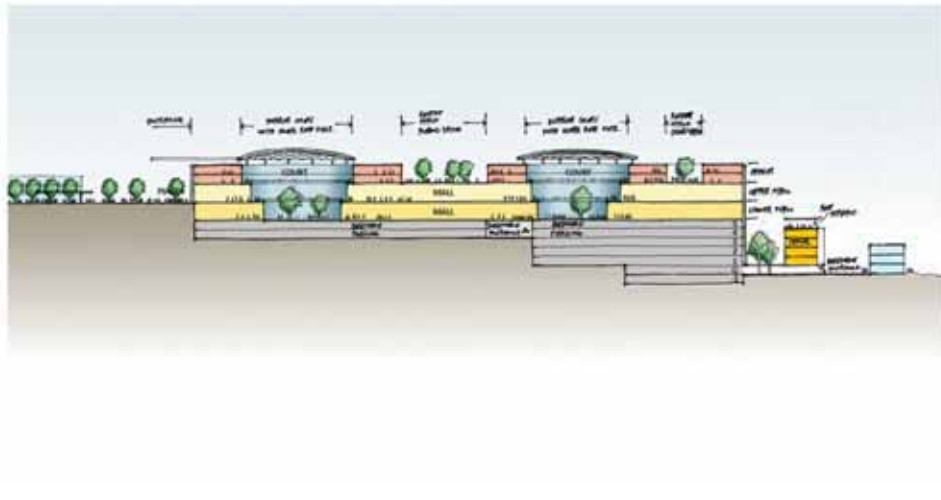
mall master plan



Area Schedule

Roof Top Offices	73,000m ²
Lower Level Offices	37,000m ²
Total	110,000m ²

Section

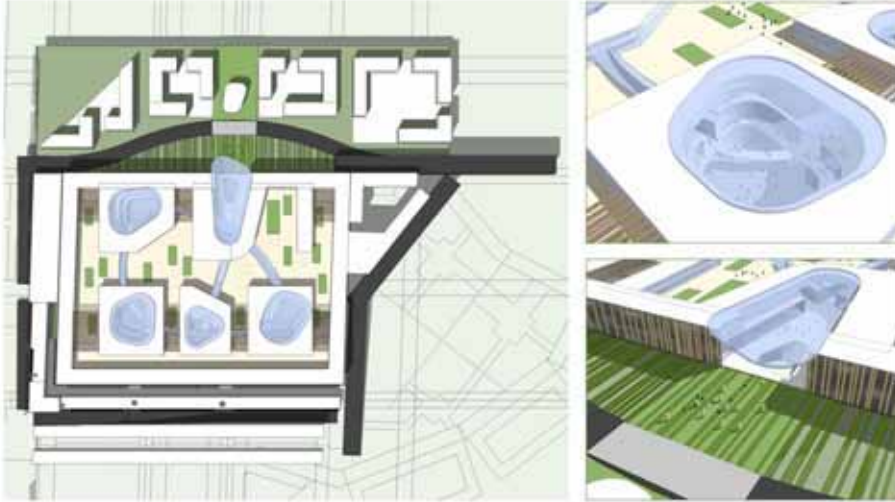


theming

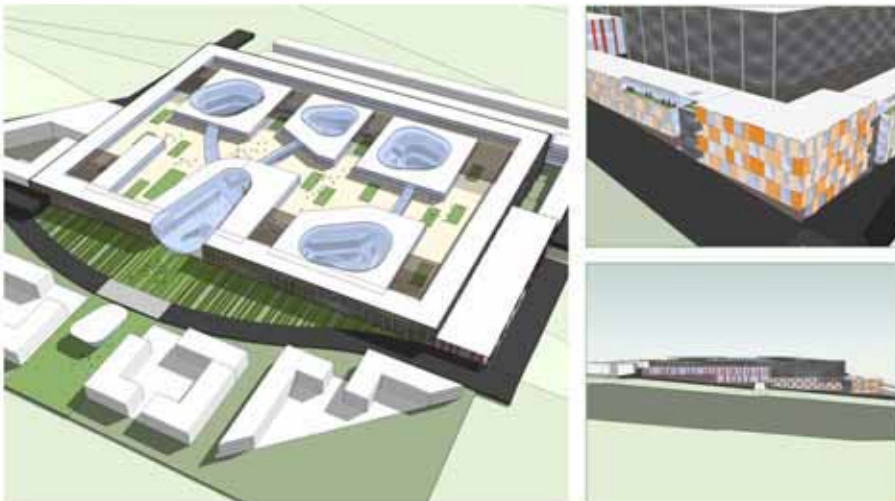
Architectural Theme



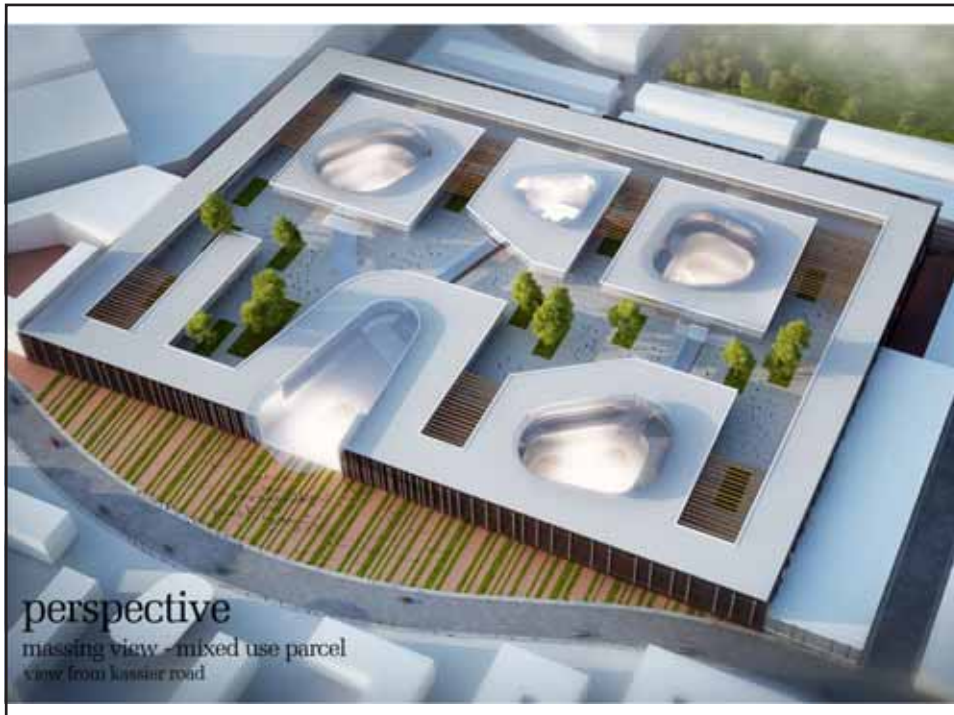
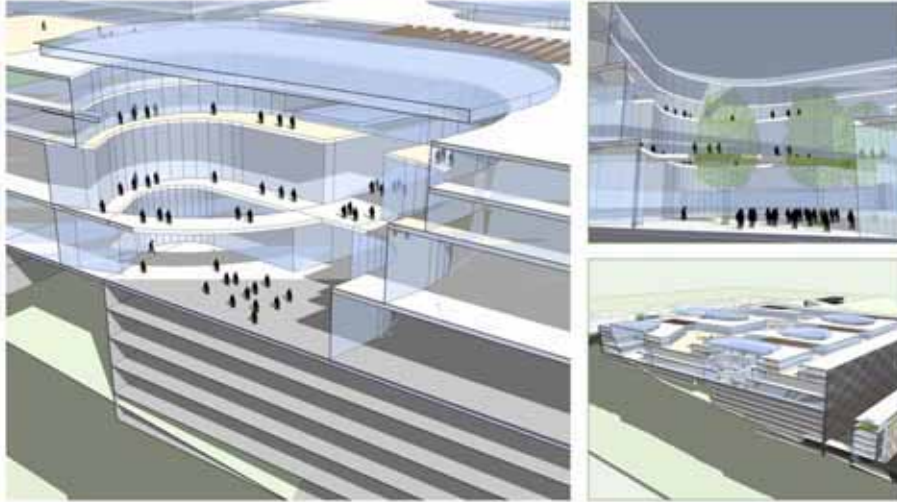
design model perspectives



design model perspectives



design model perspectives







Meeting Minutes for the Tongaat Hulett Development (THD) Proposed Centre for Retail / Mixed Use Development on Rem of the Farm Kirkfalls No. 14227 in Durban

Date: 22nd March 2012

Venue: The Assagay Hotel

Time: 5:30pm

The public meeting was hosted by Kerry Seppings Environmental Management Specialists cc, represented by Kerry Stanton, Manogrie Chetty and Trenell Sewraj.

Agenda

- | | |
|------------------------------------|-------------------------------|
| ▪ Welcome | Kerry Stanton |
| ▪ Purpose of Meeting | Kerry Stanton |
| ▪ Presentation – EIA | Manogrie Chetty |
| ▪ Presentation – Layout and Design | Erky Wood |
| ▪ Questions and Comments | Kerry Stanton/Manogrie Chetty |

Apologies were submitted by the following I & APs:

- | | |
|-----------------|-----------------|
| ▪ Alan Dawson | ▪ Bob Allen |
| ▪ Alan Childs | ▪ Peter Davies |
| ▪ Pam Flanagan | ▪ Grant McLoed |
| ▪ Jo Bowden | ▪ Julie Knatten |
| ▪ Nicolas Hearn | |

Attendees

Name	Company / Private
Kerry Stanton	Kerry Seppings Environmental Management Specialists cc (KSEMS)
Manogrie Chetty	Kerry Seppings Environmental Management Specialists cc (KSEMS)
Trenell Sewraj	Kerry Seppings Environmental Management Specialists cc (KSEMS)
Rory Wilkinson	Tongaath Hulett Developments (THD)
Mbongi Dhlomo	Tongaath Hulett Developments (THD)
Bheki Shongwe	Tongaath Hulett Developments (THD)
David	Tongaath Hulett Developments (THD)
Philani Khezwa	Ward Councillor Representative for Phewa Zibani
Lillian Develing	Ratepayers Association
Lillian Davis	Private
Maurice Morgan	Aintree Lane Complex
Nora Choveaux	Private
John Schimper	Private
Judith McDowell	Private
Pravin Amar Singh	Development Planners
Ros Pamementer	Private
Anthea Spowart	Private
Grant Solomon	Private

Kerry Seppings Environmental Management Specialists cc

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PO Box 396 Gilitts 3606

Company Registration no: 1999/049452/23

Members: K.A. Stanton (Director)

Debbie Abel	Private
T C Chetty	Private
Simon Hemmingway	Private
Dave Smith	Private
Lee Anne Wilkins	Beetle Inc
Rachel Mathews	Beetle Inc
Mickey Clark	Private
Jenny Louglin	Private
Penton	Private
Des Donne	Private
Dion Nicholas	Private
Babe Ramollo	Antree Lane
Thembekile Mbatha	eThekweni Municipality
Karen Bodley	Private
John A Forbes	Private
P Gillit	Private
Mary - Anne	Net Vendor
Derek Scott Robins	Waterfall & Link Hills Shopping Centre
Antonieta Alves	Private
Natalie Way – Jones	Private
Deidre & Salmon Oosthuisen	Private
G L Victor	Waterfall Conservancy
Erky Wood	GAPP Architecture Urban Designers
Keus Packer	Private0
C Rennie	Private
G Rennie	Private
G Noyce	Councillor
Annette Olls	Hillcrest Private Hospital
Russell Worship	Private
Nick Swan	Private
C Standeaven	Private
Wiseman Rozani	DAFF
Neziswa Mengqan	DAFF
Lachlan Nicholson	Hillcrest Fever Newspaper
Alan Smaldon	Private
Ronald Coppin	Private
Kathy & Jake Jacobs	Assagay Hotel
Pryce Robinson	Aintree Lane
Newet	Aintree Lane
M Jason	Private
Linda Bremmor	Private
Mhlahla Mchuna	Private
Mchunu M B	Private
Linda Mchunu	Private
Warren Farrer	Private
William Horsefield	Private

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Members: K.A. Stanton (Director)

We wish to thank all interested and affected parties (I & APs) for attending the meeting. All comments raised have been summarised in the minutes and will be included in the Final Scoping Report and Environmental Impact Assessment Report (EIR).

Record of Comments:

The following is a record of concerns raised at the meeting. It is important that your comment has been acceptably represented. In this regard please check carefully. Responses have been provided for each issue. These comments may not be exactly as stated, and have been summarized.

Purpose of the Public Meeting:

The public meeting serves as a tool to further inform I & APs about the project proposal and the environmental impact assessment (EIA) process, as well as allowing for I & APs to voice their views and concerns regarding the project. These meeting minutes will be distributed to all I & APs and authorities for comment. All comments will be included in the final Scoping Report and EIR which will be submitted to DAEARD for assessment.

Need and Desirability

The eThekweni Municipality has identified in both the Outer West Spatial Development Plan (SDP) and the Shongweni Local Area Plan (LAP) the need for and benefit of a town centre precinct as a new critical structuring element of the broader region. As per the LAP, this town centre precinct of the Shongweni LAP study area should be located in the Central Eastern precinct and includes areas that can be developed to accommodate the following land use:

- **Commercial: Mixed Use – Medium Intensity:** This area will allow for the development of a regional centre, office park development and also includes a residential component.

Tongaat Hulett Developments therefore propose to facilitate the construction of a new regional retail and mixed use development at Shongweni (refer to figure 1 as indicated in the Background Information Document (BID)) including the upgrading of affected roads and service infrastructure. The development will include a new regional retail centre, offices, business park and medium to high density residential units including expansive areas of rehabilitated open space and the promotion of sustainability measures.

The following issues/concerns were raised by I & APs during the meeting:

Comment	Response
<ul style="list-style-type: none"> ▪ Concerns were raised regarding the volume of traffic that is anticipated to be generated from the proposed development and whether a Traffic Impact Assessment was being undertaken. ▪ I & APs requested the details of the specialist responsible for undertaking the Traffic Impact Assessment (TIA). 	<ul style="list-style-type: none"> ▪ Traffic is a key impact that will be assessed in the EIR. A traffic impact assessor has been appointed to undertake the relevant study for the purpose of this EIA. This assessment will be included in the EIR for comment. ▪ ARUP has been appointed as the traffic impact assessment specialist to assess the current situation and to determine the impacts of the traffic as a result of the proposed development.
<ul style="list-style-type: none"> ▪ A concern was raised regarding the site alternatives chosen. The I & AP acknowledges the three alternatives chosen and recommends that a fourth site alternative be considered. It is recommended that polo fields which are considered to be flatter and easier to develop be considered as it is less likely to have a significant impact on the uMhlatuzana River. 	<ul style="list-style-type: none"> ▪ The comment has been noted. Please note that the applicant engaged with and worked closely with the landowner of the polo fields site over a 3 year period towards finding a mutually beneficial solution to enable the long term sustainability and viability of the Durban Shongweni Club (DSC). The DSC however confirmed in late 2011 that they were no longer interested in concluding a deal with the applicant and wanted to pursue

Kerry Seppings Environmental Management Specialists cc

<ul style="list-style-type: none"> ▪ Should this proposed development go ahead, there is going to be development on the other side of the road and planning must take that into account and that will have to be integrated. ▪ The I & AP is pleased with the comparison to the Melrose Arch development. The Melrose Arch development is a much better model to emulate in that there is greater integration with new urbanism of people and cars. ▪ Based on the layout and design presented by Mr Wood, as illustrated in the cross section and looking at where the uMhlatuzana River is, on the right hand side of the development, there are quite a number of stories proposed. The I & AP acknowledges that the design is in its early stages, however there doesn't seem to be much emphasis on the protection and buffering of the uMhlatuzana River. There is a similar situation at Melrose arch, where there is a little stream located between Melrose Arch and the M1 and there are significant erosion problems that may be as a result of stormwater run-off. This must be addressed in the EIR. 	<p>their own opportunities which may include not moving. Accordingly this site option is no longer a feasible alternative.</p> <ul style="list-style-type: none"> ▪ The purpose of this EIA is to assess the impacts of the proposed development and to assess the cumulative impacts. All existing developments and any proposed developments that have been made public will be considered as part of this EIA. ▪ Comment Noted. ▪ A wetland impact assessment and vegetation impact assessment will be undertaken to ensure that all sensitive areas i.e. the uMhlatuzana River and DMOSS areas will be protected. The potential impacts on these areas will be discussed further in the EIR. Stormwater will also be addressed in detail in the EIR to ensure that erosion is prevented or minimised.
<ul style="list-style-type: none"> ▪ A concern was raised regarding the natural vegetation on the proposed site and along the boundary of the site. What mitigation measures will be put in place to ensure protection of the natural forest and will there be any buffers in place. 	<ul style="list-style-type: none"> ▪ A vegetation specialist will be appointed to assess the existing situation of those areas, to determine the impact of the development on the natural forest and to provide recommendations in the form of mitigation measures that must be incorporated into the development layout. This information will be included in the draft EIR and submitted to I & APs for comment. All relevant legislation, including the Forestry Act will be taken into consideration.
<ul style="list-style-type: none"> ▪ The water table in the Assagay area is very high and must be taken into consideration. ▪ The proposed development which includes a residential component will have an impact on schools. There needs to be a school for every 100 units. There has not been a new school in this area for the last 25 years and as such this development needs to identify as part of the development an area for a school which will accommodate grade 0 to grade 12. 	<ul style="list-style-type: none"> ▪ Noted. A geotechnical assessment will be undertaken by Drennan Maud and Partners to determine the impact of the water table on the proposed development and vice versa. This information will be provided in the Draft EIR. ▪ The need for and potential location of any relevant and required social facilities such as schools will be assessed and included in the Draft EIR.

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<ul style="list-style-type: none"> ▪ A query was raised regarding the security measures that will be put in place post construction as this is a major issue for people staying in the area. ▪ Will the development be fenced with palisade fencing or a brick wall? 	<ul style="list-style-type: none"> ▪ The relevant security measures will be put in place during and post construction. This will be discussed further in the EIR. ▪ It is not known at this stage what type of fencing will be used, this will be discussed further in the EIR.
<ul style="list-style-type: none"> ▪ A query was raised as to what is the anticipated date for the construction of the proposed development. 	<ul style="list-style-type: none"> ▪ At this stage there is no anticipated timeframe. The EIA needs to run its course first and if approved then a planning application will need to be submitted before the development goes out to tender for construction. This is anticipated to take a minimum of approximately five years.
<ul style="list-style-type: none"> ▪ There are many people that reside in this area because of the open space and use the THD area to ride their bicycles and horses and take hikes through this property. Please can the development allow for either a cycle track / hiking track along the uMhlatuzana River which allows people to access the polo fields. 	<ul style="list-style-type: none"> ▪ Noted. This request will be considered as part of the development and discussed further in the EIR.
<ul style="list-style-type: none"> ▪ A concern was raised regarding the town planning process that has been undertaken and who has been appointed to undertake that process on the applicant's behalf. 	<ul style="list-style-type: none"> ▪ The EIA process is a separate process to the town planning process. The town planning process will only commence once the EIA process has been concluded. A town planner has not been appointed for to undertake the town planning application as yet.
<ul style="list-style-type: none"> ▪ A concern was raised regarding the fact that members of this community prefer living in the 'country' and don't mind travelling 10km to get into the Hillcrest town. The I & AP recommends that the development be located on the other side of the freeway, where it is not easily visible to the residents near site alternative 1. ▪ The only people that are going to benefit from the proposed development are the investors and not necessarily the people that reside in the area. 	<ul style="list-style-type: none"> ▪ Noted. All three alternatives will be assessed in the draft EIR in terms of aesthetic impact. It is noted that this I & AP does not prefer site alternative 1. ▪ Please note that socio-economic assessment will be undertaken to determine the impacts of the proposed development on the surrounding community members. All comments raised by I & APs will be included in the draft EIR.
<ul style="list-style-type: none"> ▪ Based on the design layouts presented, the development will incorporate a large amount of concrete and in this age where sustainability and carbon footprint is at the forefront, the I & AP would prefer to see a more eco-friendly architectural design including more greenery as the large amount of concrete surfaces will have a significant impact on the runoff generated from the development. This runoff will negatively impact the uMhlatuzana River. 	<ul style="list-style-type: none"> ▪ These issues will be addressed in the draft EIR and as the EAP we will recommend that where possible, eco-friendly measures be incorporated into the proposed development. Runoff will be addressed as part of the wetland impact assessment report and the EIR. The relevant mitigation measures will be put in place to prevent, mitigate or minimise this impact where possible.
<ul style="list-style-type: none"> ▪ A comment was made by another I & AP in support of the polo fields as the preferred site for the proposed development. Is this option going to be assessed any further? 	<ul style="list-style-type: none"> ▪ This option will not be assessed any further. (See related comment above)

Kerry Seppings Environmental Management Specialists cc

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 PO Box 396 Gilitts 3606
 Company Registration no: 1999/049452/23
 Members: K.A. Stanton (Director)

<ul style="list-style-type: none"> Traffic will remain an issue as most of the community members still have to travel into the Hillcrest town for work and schools, until these issues are addressed, the traffic will still be an issue. 	<ul style="list-style-type: none"> These potential impacts of traffic as a result of the proposed development will be discussed further in the EIR.
<ul style="list-style-type: none"> It is recommended that the traffic impact assessment look at the Stockville Road entrance down to the N3 and MR360. There is an application in to develop a shopping centre across the MR360 and as this area densifies, there will be fewer people that will be able to afford the tariff on the N3 to go into Durban. Fields hill is going to struggle more, this is an important link that must be maintained and therefore needs to be taken into consideration. 	<ul style="list-style-type: none"> Noted. This information will be provided to the Traffic specialist and the relevant recommendations will be made. Comment noted, the direct, indirect and cumulative impacts on traffic will be discussed further in the EIR.
<ul style="list-style-type: none"> An I & AP has requested that a cycle access route along the river in the buffer zone, adjacent to the river be considered for horses and cyclers to continue to enjoy the beauty of the area. The I & APs only point of access to the polo grounds is via the land next to the uMhltuzana River 	<ul style="list-style-type: none"> Noted. This request will be considered as part of the development and discussed further in the EIR.
<ul style="list-style-type: none"> The Department of Agriculture, Forestry and Fisheries (DAFF) prefers site alternative 2 as it is less vegetated in terms of natural forests and will have a less significant impact on the natural vegetation. 	<ul style="list-style-type: none"> Noted. A vegetation specialist will be appointed to determine the impact of the proposed development of the natural vegetation. It is noted that DAFF prefers option 2 and this will be taken into consideration in the draft EIR.
<ul style="list-style-type: none"> A concern was raised regarding the fauna / animals present in the forest that will be impacted by the proposed development. Concerns were once again raised regarding the increase in traffic along Kassier Road, the increase in runoff as a result of the large amount of concrete areas and it was requested that a green architect be used. Is the applicant proposing upmarket anchor tenants for the development? Has anyone been approached at this point? 	<ul style="list-style-type: none"> A faunal assessment will be undertaken to ensure that all fauna is protected. This will be addressed further in the draft EIR. The relevant specialist studies are being undertaken and the issue of traffic and runoff are major impacts that will be addressed further in the draft EIR. GAPP Architects and Urban Designers have been appointed as the architects and will incorporate greenery into the design where possible. The issue of tenants etc has not as yet been considered and will only be considered further when approvals have been obtained.

The meeting was closed at 7:00pm by Kerry Stanton.

Manogrie

From: KSEMS <kerry.seppings@telkomsa.net>
Sent: 20 April 2012 01:42 PM
To: lethiwe.mabanga@kzndae.gov.za; wisemanr@daff.gov.za; NeziswaMe@nda.agric.za; pillayr@dwa.gov.za; rajay.ramgoolam@eskom.co.za; andyb@kznwildlife.com; 'Phumelela Dlamini'; vanrensburgd@durban.gov.za; roy.ryan@kzntransport.gov.za; landmanc@nra.co.za; archaeology@amafapmb.co.za; govindsm@telkom.co.za; wayleaves2@telkom.co.za
Subject: Tongaat Hulett Development (Reference number: DM/0003/12)- Construction of a centre for retail / mixed use development on the Rem of the farm Kirkfalls 14277
Attachments: Layout Presentation 22 March 2012.pdf; THD Retail Centre Meeting Minutes.pdf; EIA Presentation.pdf

Dear I & APs

Please find attached a copy of the meeting minutes for the public meeting held on the 22nd March 2012. Please also find attached a copy of the EIA and layout presentation. Please note that a larger version containing A4 pictures of the layout presentation, has been uploaded to the following website: www.ksems.co.za, this file is too large to send via email and as such has been uploaded to the website.

Please feel free to contact us should you require any further information.

Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



Kerry Seppings Environmental Management Specialists cc
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Please feel free to contact us should you require any further information.

Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



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Manogrie

From: KSEMS <kerry.seppings@telkomsa.net>
Sent: 20 April 2012 04:16 PM
To: mggoldie@yebo.co.za; KEYSER@ukzn.ac.za; mistyview@telkomsa.net; Wallis.Buchan@dev2.co.za; asmaldon@chillibyte.com; denron@coppin.co.za; heidis@iafrica.com; tax@cmgacct.co.za; antalves@soukop.co.za; Grant@saproposal.com; natswj@gmail.com; AbelD@durban.gov.za; tc.chetty@tcaa.co.za; simonhemingway@vodamail.co.za; dave@cra-durban.co.za; lee@beetleinc.co.za; SusanW@hillcresthospital.co.za; amazona@iafrica.com; jenal@vodamail.co.za; greg@3dprop.co.za; craigren@vodamail.co.za; Richc@ukzn.ac.za; nrp@ukzn.ac.za; pryce.rpbinson@lislink.co.za; dewetg@megafreight.co.za; Brems@telkomsa.net
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Manogrie

From: KSEMS <kerry.seppings@telkomsa.net>
Sent: 20 April 2012 04:16 PM
To: info@cvmakeovers.co.za; grant@propco.co.za; deniseg@wol.co.za; Derek Bird; motprop@telkomsa.net; nac@pmmtrust.org; hazyview@netactive.co.za; forbesj@eastcoast.co.za; jaandka@telkomsa.net; kross@dbnmail.co.za; newnhamcrow@gmail.com; john@rjbprojects.co.za; lachlan.nicholson@expressmedia.co.za; lynette@tysonprop.co.za; vivienne@plantationsestate.co.za; sue.mbabala@gmail.com; itsmylife@telkomsa.net; anton@altix.co.za; liz@rattray.co.za; ahay@coxyeats.co.za; info@meditateindurban.org
Subject: Tongaat Hulett Development (Reference number: DM/0003/12)- Construction of a centre for retail / mixed use development on the Rem of the farm Kirkfalls 14277
Attachments: Layout Presentation 22 March 2012.pdf; THD Retail Centre Meeting Minutes.pdf; EIA Presentation.pdf

Dear I & APs

Please find attached a copy of the meeting minutes for the public meeting held on the 22nd March 2012. Please also find attached a copy of the EIA and layout presentation. Please note that a larger version containing A4 pictures of the layout presentation, has been uploaded to the following website: www.ksems.co.za, this file is too large to send via email and as such has been uploaded to the website.

Please feel free to contact us should you require any further information.

Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



Kerry Seppings Environmental Management Specialists cc
4 Woodville Lane off Hawkstone Road, Summerveld, Assagay
Postal P.O. Box 396; Gillitts; 3603
Phone 031 7691578
Fax 031 7691579
Website www.ksems.co.za

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Sent: 20 April 2012 04:16 PM
To: Johnst_G@mtn.co.za; Carolyn Schwegman; phewarz@hotmail.com; gnoyce@zmail.co.za; baronvonsorgs@gmail.com; julie.knatten@drummond.hk; ThengwaC@durban.gov.za; ramlugaanr@durban.gov.za; ltbird@eastcoast.co.za; liliand@webafrica.org.za; lilian@conomirra.co.za; atcon@3i.co.za; dawsonap@telkomsa.net; colleen@worldonline.co.za; kayakc@worldonline.co.za; vah@mweb.co.za; maurice@preferred.co.za; melissavr@hps.co.za
Subject: Tongaat Hulett Development (Reference number: DM/0003/12)- Construction of a centre for retail / mixed use development on the Rem of the farm Kirkfalls 14277
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Website www.ksems.co.za

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Manogrie

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Sent: 20 April 2012 04:16 PM
To: pam@compass.za.net; nicholas@compass.za.net; john@justdone.co.za; jlb.comms@gmail.com; msalicat@gmail.com; peter@kaytech.co.za; mjason@worldonline.co.za; mjason1972@gmail.com; mary@netvendor.co.za; capelle@venturenet.co.za; glaret@gmail.com; karbod65@gmail.com; Derek.robins@larsonfalconer.com; saf@lesterhall.co.za; judith@3lester.co.za; john@waterfield.co.za; simon@wsc.co.za; naeem@mobilecom.co.za; environmental1@pravinamar.com; witherowp@gmail.com; ros.pammenter@telkomsa.net
Subject: Tongaat Hulett Development (Reference number: DM/0003/12)- Construction of a centre for retail / mixed use development on the Rem of the farm Kirkfalls 14277
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Distribution of documents

Distribution of Meeting Minutes

Project Title

THD Shopping Mall

Orange - Must get copy

Pink - Must get copy of Report

Green - Get copy if registered

Contact	Name	Dept/ Business/ Private	Date sent	Sent by fax, e-mail, hand delivered notice or post?
Client	Rory Wilkinson			
DAEA	Lethiwe Mabanga	Department	20/04/2012	Email
DAFF	Wiseman Rozani	Department	20/04/2012	Email
DWA	Renelle Pillay	Department	20/04/2012	Email
Eskom	Rajay Ramgoolam	Department	20/04/2012	Email
KZN Wildlife	Andy Blackmore	Department	20/04/2012	Email
Municipal Department- eThekweni	Diane Van Rensburg	Department	20/04/2012	Email
KZN Transport	Roy Ryan	Department	20/04/2012	Email
SANRAL	Casper Landman	Department	20/04/2012	Email
AMAFA	Weziwe Tchalalala	Department	20/04/2012	Email
Telkom	SM Govinden	Department	20/04/2012	Email
MTN Tower	GARY JOHNSTON	Department	20/04/2012	Email
WESSA	Carolyn Schwegman	Department	20/04/2012	Email
Ward Councillor	Phewa Richard Zibani/ Philani Khezwa	Department	20/04/2012	Email
Ward Councillor	Gillian Noyce	Department	20/04/2012	Email
Clifton Canyon Residents Association	Mr Brian von Sorgenfrei	Private	20/04/2012	Email

Private	Julie Knatten	Private	20/04/2012	Email
eThekwini	Chumisa Thengwa	Private	20/04/2012	Email
Ethekwini Evaluation	Rakesh Ramlugaan	Private	20/04/2012	Email
Private	Lillian Davis	Private	20/04/2012	Email
Ratepayers Association	Lilian Develing	Private	20/04/2012	Email
Envirowest	Allan Childs	Private	20/04/2012	Email
Company	Alan Dawson	Private	20/04/2012	Email
Dept/ Company/ Private	NAME	Private	20/04/2012	Email
Private	Colleen & Richard Whitton	Private	20/04/2012	Email
Private	Vanessa Holmwood	Private	20/04/2012	Email
Private	Lyris & Garith Hill	Private	20/04/2012	Email
Aintree Lane Complex	Maurice Morgan	Private	20/04/2012	Email
Highburry School	Melissa Van Rooyen	Private	20/04/2012	Email
CV Makeovers	A. Tigar	Private	20/04/2012	Email
Propco	Grant Mcleod	Private	20/04/2012	Email
Private	Denise Graham	Private	20/04/2012	Email
Private	Derek Bird	Private	20/04/2012	Email
Motprop	Ken Fann	Private	20/04/2012	Email
Private	Nora Choveaux	Private	20/04/2012	Email
Hazyview Farm	Keith Standeaven	Private	20/04/2012	Email
Private	John A Forbes	Private	20/04/2012	Email
Assagay Hotel	Cathy (Jake Jacobs)	Private	20/04/2012	Email
Private	Keith Roass	Private	20/04/2012	Email

Private	P. Gillitt	Private	20/04/2012	Email
Private	John Butler	Private	20/04/2012	Email
Hillcrest Newspaper	Lachlan Nicholson	Private	20/04/2012	Email
Private	Lynette Dorkin	Private	20/04/2012	Email
Plantations Estate	Vivienne Jennings	Private	20/04/2012	Email
Private	Sue James	Private	20/04/2012	Email
Private	John Schimper	Private	20/04/2012	Email
Chairperson (Shongweni Club)	Anton Mostert	Private	20/04/2012	Email
Polo Pony Station	Eric	Private	20/04/2012	Email
MalaMala Ranch	Liz Archibald	Private	20/04/2012	Email
Cox Yeats	Alastair Hay	Private	20/04/2012	Email
Mahasiddha Kadampa Buddhist	(Kelsang Jampel	Private	20/04/2012	Email
Private	Pam Flanagan	Private	20/04/2012	Email
Compass Waste Services	Nicholas Hearn	Private	20/04/2012	Email
Private	John Dovey	Private	20/04/2012	Email
Private	Dave and Jo Sobey	Private	20/04/2012	Email
Private	Alison Duncan	Private	20/04/2012	Email
Bothas Hill Residents Association	Peter DAVIES	Private	20/04/2012	Email
Private	MARK A JASON	Private	20/04/2012	Email
Net Vendor	Mary- Ann	Private	20/04/2012	Email
Private	Terry	Private	20/04/2012	Email
Private	Grant Laret	Private	20/04/2012	Email
Private	Karen and Cassian Bodley	Private	20/04/2012	Email

Waterfall and Link Hills	Derek Scott Robins	Private	20/04/2012	Email
ShoppoinG Centre	Sally Fletcher	Private	20/04/2012	Email
Private	Judith McDowell	Private	20/04/2012	Email
Private	Precious Smophe	Private		
Waterfield Farm	John	Private	20/04/2012	Email
Waterfall Shopping Centre	Simon Pitcher	Private	20/04/2012	Email
Private	Naeem Jeewa	Private	20/04/2012	Email
Development Planners	Pravin Amar Singh	Private	20/04/2012	Email
Private	Pat Withew	Private	20/04/2012	Email
Private	Ros Pamerenter	Private	20/04/2012	Email
Private	Brian & Marylin	Private	20/04/2012	Email
Private	Sonya Keyser	Private	20/04/2012	Email
Private	John Cox	Private	20/04/2012	Email
Private	Wallis Buchan	Private	20/04/2012	Email
Private	Alan Smaildon	Private	20/04/2012	Email
Private	Ronald Coppin	Private	20/04/2012	Email
Private	Martin Heigendroff	Private	20/04/2012	Email
Private	Anthea Spowart	Private	20/04/2012	Email
Private	Antonietta Alves	Private	20/04/2012	Email
Private	Grant Salomon	Private	20/04/2012	Email
Private	Natalie Way-Jones	Private	20/04/2012	Email
eThekwini Municipality	Debbie Abel	Private	20/04/2012	Email
Private	Deidre & Salimon Oosthuisen	Private	20/04/2012	Email
Private	TC Chetty	Private	20/04/2012	Email
Private	Simon Hemingway	Private	20/04/2012	Email
Private	Andrew and Leander Walford	Private	20/04/2012	Email
Private	Dave Smith	Private	20/04/2012	Email
Borad of Highmead Country Estate	Bob Allen	Private	20/04/2012	Email
Beetle Inc	Lee-Anne Wilkins	Private	20/04/2012	Email
Hilcrest Hospital Manager	Annette Olls	Private	20/04/2012	Email
Private	William Horsefield	Private	20/04/2012	Email
Private	Jenny Loughlin	Private	20/04/2012	Email
Private	Greg Beaumont	Private	20/04/2012	Email
Private	Mr and Mrs Rennie	Private	20/04/2012	Email
Private	Cathy Rich	Private	20/04/2012	Email

Aintree Lane Complex	Pryce Robinson	Private	20/04/2012	Email
Aintree Lane Complex	Newet	Private	20/04/2012	Email
Private	Linda Bremmor	Private	20/04/2012	Email
Private	Mhlamhwa Mchunu	Private		Email
Private	Mchunu MB	Private		Email
Private	Linda Mchunu	Private		Email
Ward Councillors Office	Philani Khezwa	Private		Email
Private	Warren Farrer	Private	20/04/2012	Email
Hillcrest Conservancy	G L Victor	Private	20/04/2012	Email
GAPP Architects Urban Designer	Erky Wood	Private	20/04/2012	Email
Private	Keus Packer	Private	20/04/2012	Email
Private	C Rennie	Private	20/04/2012	Email
Private	G Rennie	Private	20/04/2012	Email
Private	Russel Worship	Private	20/04/2012	Email
Private	Nick Swan	Private	20/04/2012	Email
Private	C Standaeven	Private	20/04/2012	Email
Private	Rachel Mathews	Private	20/04/2012	Email
Tongaat Hullett	Bheki Shonywe	Private	20/04/2012	Email
Tongaat Hullett	Mbongi Dhlomo	Private	20/04/2012	Email
Private	Mickey Clark	Private	20/04/2012	Email
Tongaat Hullet Development	David	Private	20/04/2012	Email
Private	Penton	Private	20/04/2012	Email
Private	Des Donne	Private	20/04/2012	Email
Private	Dion Nicholas	Private	20/04/2012	Email
Aintree Lane Complex	Babe Ramollo	Private	20/04/2012	Email
eThekwini Municipality	Thembekile Mbatha	Private	20/04/2012	Email
COWRA	Alan Smaldon	Private	20/04/2012	Email
Private	Larry & Elaine Vermaak	Private	20/04/2012	Email



31st October 2013

Tongaat Hulett Development Public Meeting
Date: 30th October 2013
Venue: Bowles Road Cul de Sac
Time: 4:30pm

RE: Meeting Minutes from Meeting held on 30th October 2013 for the proposed THD Retail/Mixed Use Development and associated bulk water pipeline route and reservoir (Ref: DM/0003/2012)

Subsequent to additional public participation being carried out for the proposed Tongaat Hulett Retail/Mixed Use Development in Shongweni, members of the public requested a meeting be held in order to discuss the proposed water pipeline route and location of the associated reservoir.

Newly registered I & APs were invited to attend the meeting, which was held at the cul de sac in Bowles Road, adjacent to the proposed reservoir site. The following comments were recorded and a response has been provided in the adjacent column. I & APs were encouraged to submit additional comments once the Draft Environmental Impact Report is released.

	Comment	Response
1.	Neighbours to the proposed reservoir site are concerned about the visual impact that it will have as currently, the residents look out onto open sugarcane fields.	As part of the post construction phase, the EAP has included that the area disturbed by the pipeline and reservoir be rehabilitated back to its current state. The reservoir is to be located as far underground as practically possible.
2.	Is it not possible to relocate the reservoir to the opposite hill, which is of similar height thereby avoiding the reservoir being built directly adjacent to residential property.	The EAP referred this comment to the Engineer who stated that the proposed alternate location (shown in Figure 1 below) is approximately 25m lower than the originally proposed position which would result in a fair portion of the proposed development not being serviced. The higher elevation is therefore required.
3.	Construction and development of land usually results in an increase in crime. Residents are concerned that the proposal (including the construction of the pipeline) will pose a security risk to the area.	The EAP has recommended that the entire site is to be fenced during the construction period to avoid trespassing. It is also a legal requirement in the Occupational Health and Safety Act, that the property be fenced. Construction hours will be limited to day time and it has been recommended that a security personnel patrol the pipeline route where it runs adjacent to neighbouring properties during the construction phase.
4.	Will the reservoir be noisy?	This query was forwarded to the Engineer who stated that the majority of the water feed would be gravity and therefore no need for pumps.

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Kerry Seppings Environmental Management Specialists cc

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4 Woodville Lane, Assagay, Summerveld
Company Registration no: 1999/049452/23
Members: K.A. Stanton (Director)

5.	Have provisions been made for a cell phone tower to be erected?	No, this is a listed activity in terms of the EIA regulations and is not included in the scope of work.
6.	What is the maximum building height?	This will be decided at the planning phase however the applicant has stated that it will be of similar height to other "shopping mall" type developments (approximately three or four stories).

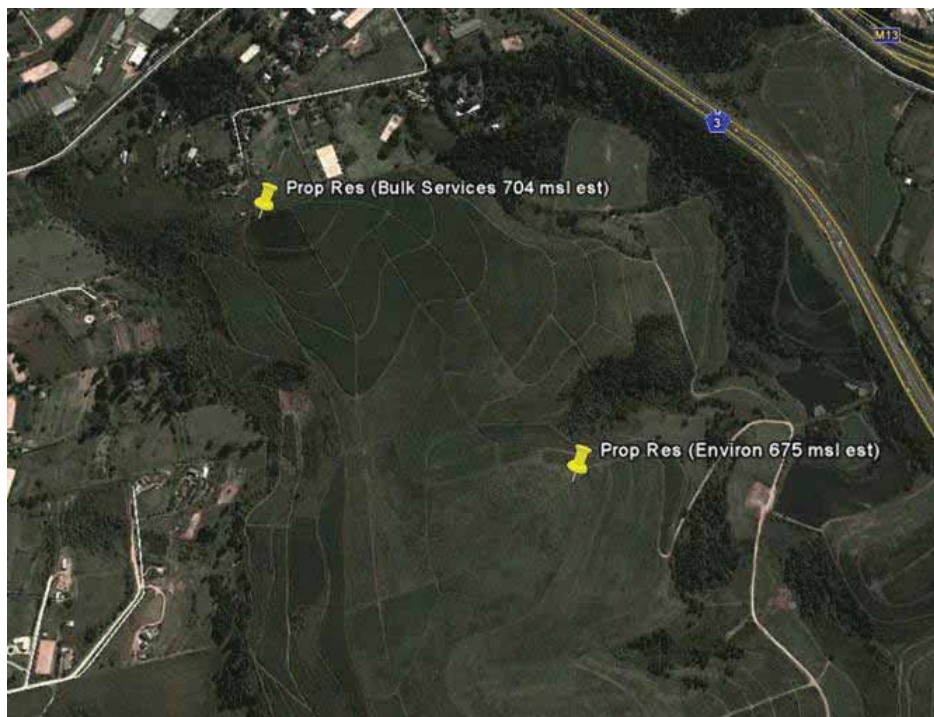


Figure 1: Difference in altitude between the proposed reservoir location and the suggested site alternative on the opposite bank.

Kind regards,

Stephanie Williams
Lead Environmental Scientist

www.ksems.co.za
Kerry Seppings Environmental Management Specialists cc

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4 Woodville Lane, Assagay, Summerveld
Company Registration no: 1999/049452/23
Members: K.A. Stanton (Director)

Stephanie

From: KSEMS <kerry.seppings@telkomsa.net>
Sent: 01 November 2013 11:25 AM
To: beachbibi@gmail.com; wendyraff@gmail.com; delcrest@telkomsa.net; Simon Hemingway (Gmail); jennyd@ion.co.za
Subject: THD Development_minutes_30.10.2013
Attachments: THD Meeting Minutes_30.10.2013.pdf

Good Morning I & APs

Thank you for meeting with Kerry and myself on Wednesday. Please find attached the meeting minutes.

Regards
Stephanie Williams



Kerry Seppings Environmental Management Specialists cc
4 Woodville Lane off Hawkstone Road, Summerveld, Assagay
Postal P.O. Box 396; Gillitts; 3603
Phone 031 7691578
Fax 086 5355281
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Stephanie

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Sent: 01 November 2013 11:25 AM
To: beachbibi@gmail.com; wendyraff@gmail.com; delcrest@telkomsa.net; Simon Hemingway (Gmail); jennyd@ion.co.za
Subject: THD Development_minutes_30.10.2013
Attachments: THD Meeting Minutes_30.10.2013.pdf

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Regards
Stephanie Williams



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Phone 031 7691578
Fax 086 5355281
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APPENDIX 16.6:

PROOF OF DISTRIBUTION OF DRAFT SCOPING REPORT

DISTRIBUTION OF DOCUMENTS-Draft Scoping Report

PROJECT TITLE: Tongaat-Hulett Development - Shopping Mall

CONTACT	NAME	Dept/ Business/ Private	Date sent	Sent by fax, e-mail, hand delivered notice or post?
Client	Rory Wilkinson			
Assessing Officer	Lethiwe Mabanga	Department	28/05/2012	Delivery
DAFF	Wiseman Rozani	Department	28/05/2012	Delivery
DWAF	Neyo Leburu	Department	28/05/2012	Delivery
Eskom	Rajay Ramgoolam	Department	28/05/2012	Delivery
KZN Wildlife	Andy Blackmore	Department	28/05/2012	Delivery
Municipal Department - eThekweni	Diane Van Rensburg	Department	28/05/2012	Delivery
KZN Housing	Roy Ryan	Department	28/05/2012	Delivery
SANRAL	Casper Landman	Department	28/05/2012	Delivery
AMAF	Weziwe Tshabalala	Department	28/05/2012	Delivery
Telkom		Department	28/05/2012	Email
MTN Tower	GARY JOHNSTON	Department	28/05/2012	Email
WESSA	Carolyn Schwegman	Department	28/05/2012	Delivery
Ward Councillor	Phewa Richard Zibani/ Phlani Khezwa	Department	28/05/2012	Delivery
Rate Payers Association	Gillian Noyce	Department	28/05/2012	Delivery
Clifton Canyon Residents Association	Mr Brian von Sorgenfrei	Private	28/05/2012	Email
Private	Julie Knatten	Private	28/05/2012	Email
eThekweni	Chumisa Thengwa	Private	28/05/2012	Delivery
EtheKwini Evaluation	Rakesh Ramlagaan	Private	28/05/2012	Email
Private	Lillian Davis	Private	28/05/2012	Email
Ratepayers Association	Lilian Develing	Private	28/05/2012	Delivery
Envirowest	Allan Childs	Private	28/05/2012	Email
Company	Alan Dawson	Private	28/05/2012	Email
Private	Colleen & Richard Whitton	Private	28/05/2012	Email
Private	Vanessa Holmwood	Private	28/05/2012	Email
Private	Lyris & Gerith Hill	Private	28/05/2012	Email
Aintree Lane Complex	Maurice Morgan	Private	28/05/2012	Email
Highbury School	Melissa Van Rooyen	Private	28/05/2012	Email
CV Makeovers	A. Tigar	Private	28/05/2012	Email
Propco	Grant McLeod	Private	28/05/2012	Email
Private	Denise Graham	Private	28/05/2012	Email
Private	Derek Bird	Private	28/05/2012	Email
Motprop	Ken Fann	Private	28/05/2012	Email
Private	Nora Choveaux	Private	28/05/2012	Email
Hazyview Fam	Keith Standeven	Private	28/05/2012	Email
Private	John A Forbes	Private	28/05/2012	Email
Assagey Hotel	Cathy (Jake Jacobs)	Private	28/05/2012	Email
Private	Keith Roass	Private	28/05/2012	Email
Private	P. Gillitt	Private	28/05/2012	Email
Private	John Butler	Private	28/05/2012	Email

Hilcrest Newspaper	Lachlan Nicholson	Private	28/05/2012	Email
Private	Lynette Dorkin	Private	28/05/2012	Email
Plantations Estate	Vivienne Jennings	Private	28/05/2012	Email
Private	Sue James	Private	28/05/2012	Email
Chairperson (Shongweni Club)	John Schlimper	Private	28/05/2012	Email
Polo Pony Station	Anton Mostert	Private	28/05/2012	Email
Eric	Eric	Private	28/05/2012	Email
MalaMala Ranch	Liz Archibald	Private	28/05/2012	Email
Cox Yeats	Alastair Hay	Private	28/05/2012	Email
Mahasiddha Kadampa Buddhist Centre	Keisang Jempel	Private	28/05/2012	Email
Private	Pam Flanagan	Private	28/05/2012	Email
Compass Waste Services	Nicholas Hearn	Private	28/05/2012	Email
Private	John Dovey	Private	28/05/2012	Email
Private	Dave and Jo Sobey	Private	28/05/2012	Email
Private	Alison Duncan	Private	28/05/2012	Email
Bothas Hill Residents Association	Peter DAVIES	Private	28/05/2012	Email
Private	MARK A. JASON	Private	28/05/2012	Email
Net Vendor	Mary-Ann	Private	28/05/2012	Email
Private	Terry	Private	28/05/2012	Email
Private	Grant Laret	Private	28/05/2012	Email
Private	Karen and Cassian Botley	Private	28/05/2012	Email
Waterfall and Link Hills ShoppingG Centre	Derek Scott Robins	Private	28/05/2012	Email
Private	Sally Fletcher	Private	28/05/2012	Email
Private	Judith McDowell	Private	28/05/2012	Email
Private	Precious Smophe	Private	28/05/2012	Email
Waterfield Farm	John	Private	28/05/2012	Email
Waterfall Shopping Centre	Simon Pitcher	Private	28/05/2012	Email
Private	Naeem Jeewa	Private	28/05/2012	Email
Development Planners	Pravin Amar Singh	Private	28/05/2012	Email
Private	Pat Withew	Private	28/05/2012	Email
Private	Ros Pamementer	Private	28/05/2012	Email
Private	Brian & Marilyn	Private	28/05/2012	Email
Private	Sonya Keyser	Private	28/05/2012	Email
Private	John Cox	Private	28/05/2012	Email
Private	Wallie Buchan	Private	28/05/2012	Email
Private	Alan Smaldon	Private	28/05/2012	Email
Private	Ronald Coppin	Private	28/05/2012	Email
Private	Martin Heiligendroff	Private	28/05/2012	Email
Private	Anthea Spowart	Private	28/05/2012	Email
Private	Antonietta Alves	Private	28/05/2012	Email
Private	Grant Salomon	Private	28/05/2012	Email
Private	Natalie Way-Jones	Private	28/05/2012	Email
eThekwin Municipality	Debbie Abel	Private	28/05/2012	Email

Private	Deidre & Salmon Oosthuisen	Private	28/05/2012	Email
Private	TC Chetty	Private	28/05/2012	Email
Private	Simon Hemingway	Private	28/05/2012	Email
Private	Andrew and Leander Walford	Private	28/05/2012	Email
Private	Dave Smith	Private	28/05/2012	Email
Board of Highmead Country Estate	Bob Allen	Private	28/05/2012	Email
Beetle Inc	Lee-Anne Wilkins	Private	28/05/2012	Email
Hillcrest Hospital Manager	Annette Olls	Private	28/05/2012	Email
Private	William Horsfield	Private	28/05/2012	Email
Private	Jenny Loughlin	Private	28/05/2012	Email
Private	Creg Beaumont	Private	28/05/2012	Email
Private	Mr and Mrs Rennie	Private	28/05/2012	Email
Private	Cathy Rich	Private	28/05/2012	Email
Aintree Lane Complex	Pryce Robinson	Private	28/05/2012	Email
Aintree Lane Complex	Newet	Private	28/05/2012	Email
Private	Linda Bremmor	Private	28/05/2012	Email
Private	Mhambua Mchunu	Private	28/05/2012	Email
Private	Mchunu MB	Private	28/05/2012	Email
Private	Linda Mchunu	Private	28/05/2012	Email
Ward Counsellors Office	Phlani Khezwa	Private	28/05/2012	Email
Private	Warren Farrer	Private	28/05/2012	Email
Hillcrest Conservancy	G L Victor	Private	28/05/2012	Email
GAPP Architects Urban Designers	Erky Wood	Private	28/05/2012	Email
Private	Keus Packer	Private	28/05/2012	Email
Private	C Rennie	Private	28/05/2012	Email
Private	G Rennie	Private	28/05/2012	Email
Private	Russel Worship	Private	28/05/2012	Email
Private	Nick Swan	Private	28/05/2012	Email
Private	C Standeven	Private	28/05/2012	Email
Private	Rachel Mathews	Private	28/05/2012	Email
Tongaat Hullett	Bhek' Shonywe	Private	28/05/2012	Email
Tongaat Hullett	Mhong' Dhlomo	Private	28/05/2012	Email
Private	Mickey Clark	Private	28/05/2012	Email
Tongaat Hullett Development	David	Private	28/05/2012	Email
Private	Penton	Private	28/05/2012	Email
Private	Des Donne	Private	28/05/2012	Email
Private	Dion Nicholas	Private	28/05/2012	Email
Aintree Lane Complex	Babe Ramollo	Private	28/05/2012	Email
eThekweni Municipality	Thembekile Mbatha	Private	28/05/2012	Email
COWRA	Alan Smaldon	Private	28/05/2012	Email
Private	Larry & Elaine Vermaak	Private	28/05/2012	Email

APPENDIX 16.7:

ACCEPTANCE OF FINAL SCOPING REPORT AND PROOF OF DISTRIBUTION



agriculture
& environmental affairs

Department:
Agriculture
& Environmental Affairs
PROVINCE OF KWAZULU-NATAL

KZN Department of Agriculture & Environmental Affairs
Directorate: Environmental Services
Private Bag X54321, Durban, 4000
Tel: 031 302 2874 | Fax: 031 302 2824
Toll-Free: 0800 000 996
Email: Lethiwe.Mabanga@kzndae.gov.za
Website: www.kzndae.gov.za
Reference no: DM/0003/2012

Fax Transmission

Messrs Kerry Seppings Environmental Management Specialists cc
P O Box 396
Gillitts
3603

Attention: Mrs. Kerry Stanton
Fax no: 031 769 1579
Tel no: 031 769 1578

Dear Sir/Madam

DM/0003/2012: ACCEPTANCE OF SCOPING REPORT FOR THE PROPOSED CONSTRUCTION OF A CENTRE FOR RETAIL/MIXED USE DEVELOPMENT ON REM OF FARM KIRKFULL NO. 14227, DURBAN, WITHIN ETHEKWINI MUNICIPALITY.

1. The application for environmental authorisation for the abovementioned activity, submitted in terms of the requirements of the Environmental Impact Assessment (EIA) Regulations, 2010 as amended, were received by the eThekwini district office on 27/02/2012.
2. The scoping report received on 30/08/2012 has been reviewed by this Department and found to be acceptable.
3. Please note that the activity applied for may not commence prior to an environmental authorisation being granted by this Department.

Yours faithfully

Y Govender (Miss)
Control Environmental Officer – Impact Assessment
eThekwini District
Department of Agriculture and Environmental Affairs

cc: Mr. Rory Wilkinson, Messrs Tongaat Hulett Developments, Fax: 031 560 1977, Tel: 031 560 1900

Department of Agriculture and Environmental Affairs, KwaZulu-Natal	Acceptance letter: DM/0003/2012	02/10/2012 Date	 Signature	Page 1 of 1
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Stephanie

From: KSEMS <ke_y.seppings@telkomsa.net>
Sent: 20 Novembe 2012 09:25 AM
To: hazvview@netactive.co.za; achel@beetleinc.co.za; Bheki.Shongwe@tongaat.com; Bheki.Shongwe@thd.co.za; david.jollands@tongaat.com; clark@xsinet.co.za; consultsolly@iafrica.com; dnicholas@toyota.co.za; mpolokeng.amollo@dpw.gov.za; mbaththembekille@duban.gov.za; mbaththembekile@duban.gov.za; asmaldon@chillibyte.com; laurie.vemaak@gmail.com
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE (DM/0003/2012)

Dear I&APs

The Scoping Report for the abovementioned project has been accepted by the Department of agriculture and Environmental Affairs.

The Draft EIR is in the process of being compiled.

KSEMS will keep all Interested and Affected Parties informed of any further developments regarding the proposed development of the Tongaat Hullet Development Retail and Commercial Centre (DM/0003/2012).

Should you have any queries please feel free to contact us.

Kind Regards
Ronell Kuppen
Junior Environmental Consultant



Kerry Seppings Environmental Management Specialists cc
Postal P.O. Box 396; Gillitts; 3603
Phone 031 7691578
Fax 086 5355281
Website www.ksems.co.za

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Stephanie

From: KSEMS <kerry.seppings@telkomsa.net>
Sent: 20 November 2012 09:22 AM
To: lee@beetleinc.co.za; SusanW@hillcresthospital.co.za; amazona@iafrica.com; jenal@vodamail.co.za; Greg Beaumont; Craig@vodamail.co.za; Richc@ukzn.ac.za; p. yce. obinson@gmail.com; dewetg@megafeight.co.za; Bems@telkomsa.net; waenfae@cf.co.za; waenfae@ef.co.za; geogevic@telkomsa.net; eky@gapp.net; daneidge@telkomsa.net; gail.elizabeth@hotmail.com; Russell@Grid.co.za; nickswan@iafrica.com
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE (DM/0003/2012)

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Stephanie

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Sent: 20 Novembe 2012 08:40 AM
To: withe owp@gmail.com; os.pammante @telkomsa.net; mggoldie@yebo.co.za; KEYSER@ukzn.ac.za; mistyview@telkomsa.net; Wallis.Buchan@dev2.co.za; asmaldon@chillibyte.com; den on@coppin.co.za; heidis@iaf ica.com; tax@cmgacct.co.za; antalves@soukop.co.za; G ant@sap opsal.com; natswj@gmail.com; AbelD@du ban.gov.za; tc.chetty@tcaa.co.za; simonhemingway@vodamail.co.za; and ewwalfo d@telkomsa.net; dave@c a-du ban.co.za
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE (DM/0003/2012)

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Junior Environmental Consultant



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Stephanie

From: KSEMS <ke_y.seppings@telkomsa.net>
Sent: 19 Novembe 2012 09:01 AM
To: lethiwe.mabanga@kzndae.gov.za; wiseman @daff.gov.za; pillay @dwa.gov.za; ajay. amgoolam@eskom.co.za; thambud@kznwildlife.com; "Phumelela Dlamini"; Diane Van Rensbu g; oy. yan@kznt anspo t.gov.za; laandmancc@n a.co.za; Be nadetp@amafapmb.co.za; a chaeology@amafapmb.co.za; wayleaves2 @telkom.co.za; Johnst_G@mtn.co.za; 'Ca olyn Schwegman'; phewa z@hotmail.com; gnoyce@zmail.co.za
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE (DM/0003/2012)

Dear I&APs

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Kind Regards
Ronell Kuppen
Junior Environmental Consultant



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Stephanie

From: KSEMS <ke_y.seppings@telkomsa.net>
Sent: 19 Novembe 2012 09:04 AM
To: ba onvonso gs@gmail.com; julie.knatten@du ummond.hk;
ThengwaC@du ban.gov.za; amlugaan @du ban.gov.za; ltbi d@eastcoast.co.za;
lilian@conomi a.co.za; atcon@3i.co.za; dawsonap@telkomsa.net;
colleen@wo ldonline.co.za; kayakc@wo ldonline.co.za; vah@mweb.co.za;
za_hillc est@ldsmail.net; mau ice@p efe ed.co.za; melissav @hps.co.za;
info@cvmakeove s.co.za; g ant@p opco.co.za; deniseg@wol.co.za
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE
(DM/0003/2012)

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From: KSEMS <ke_y.seppings@telkomsa.net>
Sent: 19 Novembe 2012 09:07 AM
To: De ek Bi d; motp op@telkomsa.net; nac@pmmbt ust.o g;
hazyview@netactive.co.za; fo besi@eastcoast.co.za; fo besj@eastcoast.co.za;
jaandka@telkomsa.net; k_oss@dbnmail.co.za; newhamc_ow@gmail.com;
john@_jbp_ ojects.co.za; lachlan.nicholson@exp_essmedia.co.za;
lynette@tysonp_op.co.za; vivienne@plantationsestate.co.za;
sue.mbabala@gmail.com; itsmylife@telkomsa.net; anton@altix.co.za;
liz@_att_ ay.co.za; ahay@coxyeats.co.za; info@meditateindu_ban.o_g
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE
(DM/0003/2012)

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Stephanie

From: KSEMS <ke_y.seppings@telkomsa.net>
Sent: 19 Novembe 2012 09:15 AM
To: pam@compass.za.net; nicholas@compass.za.net; john@justdone.co.za;
jlb.comms@gmail.com; msalicat@gmail.com; pete @kaytech.co.za;
mjason@wo ldonline.co.za; mjason1972@gmail.com; ma y@netvendo .co.za;
capelle@ventu enet.co.za; gla et@gmail.com; ka bod65@gmail.com;
De ek. obins@la sonfalcone .com; saf@leste hall.co.za; judith@3leste .co.za;
Te ymcd@iaf ica.com; john@wate field.co.za; 'Simon'; naeem@mobilecom.co.za;
p avinama @mweb.co.za; admin@p avinama .com; envi onmental1
@p avinama .com
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE
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APPENDIX 16.8:

PROOF OF DISTRIBUTION OF DRAFT ENVIRONMENTAL IMPACT REPORT

To be included in the Final EIR

APPENDIX 16.9:
COMMENTS AND RESPONSE TABLE

Comments and Response Table

Background Information Document Comments		
Comment		Response
<p>I hope very much that none of this development takes place which will change the face of this lovely part of the world forever. However, if it does, please suggest to Tongaat Hullett my idea of cycling, hiking and bridle paths to allow access for those of us who enjoy the outdoors. I live in Waterberry Close and our only riding access to the Shongweni polo grounds is via the Tongaat Hullett land under discussion. Tongaat Hullett management have, very kindly, allowed cyclists and horse riders to use their land for many years and so they are obviously sensitive to their needs.</p> <p>For the development currently under discussion I would suggest that a pathway is created from the bridge that crosses the M13 by the Mhlatusana river, along the riverside, in the proposed "Buffer Zone" to allow exit onto Kassier Road that could be controlled by traffic lights (we would call them a Pelican Crossing in UK). This would facilitate safe crossing of riders, cyclists and pedestrians.</p> <p>It is my view that provision of a scenic walkway along the river could only enhance the area. It could be outside of any security fencing that may be erected around the development and so there would be no increased threat to security.</p>	<p>Judith MacDowell 23/03/2012</p>	<p>Comment noted. If Site 1 goes ahead – to retain access through the site for horses and a walkway along the river.</p>
<p>During the course of your investigations for your various reports regarding the proposed development on Tongaat land please would you ascertain:- Which species of fauna are currently living on the proposed site?</p> <p>How these will be counted? What will happen to them?</p> <p>Will they be captured and translocated and if so by whom and where to?</p> <p>The Blue Duiker are now TOPS listed and I believe there are still some individuals resident on the proposed site so it concerns me that this was not mentioned in the initial proposal literature.</p>	<p>William Horsefield 28/03/2012</p>	<p>Comments noted. A faunal assessment is being carried out on all 3 sites and will be included in the EIR.</p>
<p>I live on Highmead and am very interested to know what kind of residential development will take place on the Tongaat land north of the M13, between Highmead and Hillcrest. We have been told in the past that a low density eco estate was in the planning for this area. Is that still the thinking today.</p> <p>I note that it was mentioned at the public meeting that there are a lot of bicycle and horse riders in the area and thought would be given to this in the planning. I would like to support this request as it</p>	<p>Garith and Lyris Hill 28/03/2012</p>	<p>Comment noted – the proposal does not consider this piece of land and a query would have to be raised with the land owners. Country sense of place will be addressed in the EIR. Need for open space corridors for active recreation is noted.</p>

<p>will be a hardship for many of us residents to be deprived of our country living and have no planning for green corridors through the light industrial areas. Could you perhaps say how this could come into the planning.</p>		
<p>I ride horses in and around the area that is due to be developed soon. Please could you register me as an interested party and keep me informed about public meetings etc related to this proposed development.</p> <p>I have ridden here for some years now, and as you are no doubt aware, riders of horses and bikes of very much affected by any such changes to the land usage. We consider ourselves custodians of green spaces in the area and often report illegal dumping etc as we often use paths unseen by motorists. We are respectful of the natural flora and fauna and work constantly to keep back alien invasive plants where we ride.</p>	<p>Cathy Rich 29/03/2012</p>	<p>Noted. Need for recreation corridors noted.</p>
<p>1. eThekweni Electricity Department The Electricity Department has no objection, however please note:</p> <p>1. The applicant must consult eThekweni Electricity's main records (held in the drawing office at eThekweni Headquarters, 1 Jelf Taylor Crescent, for the presence of underground electrical services. In addition should any overhead line and/or servitude be affected, the specific permission of the Head: Electricity must be sought regarding the proposed development.</p> <p>2. The relocation of MM/LV electrical services, if required in order to accommodate the proposed development, will be carried out at the expense of the applicant.</p> <p>2. Environmental Planning and Climate Protection Department This department has reviewed the background Information Document for the above mentioned project and supports the need for a wetland delineation and vegetation assessment. This Department will provide further comment on subsequent Scoping and EIA reports.</p> <p>3. Land Use Management Branch This Branch has no objection to the proposed development as it is line with the Outer West Spatial Development Plan (SDP) and the Shongweni Local Area Plan (LAP). This Branch will comment further once the specialist studies have been conducted during the Scoping and Environmental Impact Report stage. Furthermore, the proposed development would have to comply with the Land Use Management procedures.</p> <p>4. Framework Planning Branch</p>	<p>Development Planning, Environment and Management Unit Diane van Rensburg 031 3117136</p>	<p>1. Service agreement will be obtained for electricity.</p> <p>2. These studies are being conducted.</p> <p>3. Noted.</p>

<p>The is supports the proposed development application and intentions as they are in line with both the Outer West Spatial Development Plan dated November 2011 and the Council approved Shongweni LAP dated October 2010, subject to the potential impacts as identified in the BID being further investigated and reported on within the Draft Environmental Impact Report.</p> <p>5. eThekwini Water and Sanitation The Background Information Document does not discuss how the effluent generated will be disposed. There is no waterborne sewage service in the area and accordingly the proposed development is not supported.</p> <p>6. Coastal, Stormwater and Catchment Management Department. This Department will need to see a Stormwater Management Plan in the final report.</p> <p>7. eThekwini transport Authority This department will require a full a full Traffic Impact Assessment Report for this development with its regionally traffic impacts on the broder road network.</p> <p>8. Geotechnical Engineering Branch. No geotechnical objections at this early stage. The background information Document does mention that a geotechnical investigation is to be done. There are one or two areas of possible localized stability concern in the south eastern and central portions of the site. While there have been many years of agricultural activity on this site, diverging contours may also be indicative of past slope movement and this must be looked at specifically in the field investigation.</p> <p>9. Fire Safety This Department has no objection to the above development provided that building plans are submitted for approval.</p>		<p>4. Noted.</p> <p>5. The need for a waste water and sewerage solution is acknowledged and will be investigated in the EIR.</p> <p>6. A stormwater plan will be provided in the Final EIR.</p> <p>7. Traffic Impact assessment is being done.</p> <p>8. The geotechnical study will address these issues.</p> <p>9. Noted.</p>
<p>In my opinion development is long overdue.</p> <p>Schools are the more urgent need</p> <p>I am still of the opinion that your development should be on the Polo Ground site especially as this hub will expand all around which will not be good place for a polo ground. I did see plans many years ago where Summerveld and surrounding areas were allocated to Equestrian which I believe makes sense.</p> <p>It is an absolute disgrace that the rate payers of Assasay have to pay a toll fee to go to work a few kilometers from home. This in my opinion will</p>	<p>Des H Donnel 9 Penny Lane Assagay 084 606 3821 gkchislett@telkomsa.net</p>	<p>Noted.</p> <p>The Polo Ground cannot be investigated as it is not a feasible alternative as it is not available for development. A two year negotiation to free up the site for this purpose has been unsuccessful.</p>

<p><u>stymie any development</u> in and around the site. Having lived at the above address for over 40yrs and have unwillingly used the toll once as field hill was blocked, on principle I will never use the toll.</p> <p>In terms of GNR 543 I do not have any direct business, financial, personal or other interest in the approval or refusal of the application. But have grave concerns about the environmental impact on the area.</p> <p>A shopping centre position between two highways is the best placement as far as entry and exit points go. The DMOSS section, Riverine forest and Umhlatuzana River were mentioned as areas of concern.</p> <p>Given the abundant wildlife in the area, habitat preservation and open ended wildlife corridors should be factored into ALL future commercial AND residential areas. Making this entire area a Special Rating Zone should be considered to provide funds for these and other environmental purposes.</p> <p>THE WIDENING OF KASSIER ROAD</p> <p>The ROD to widen Kassier Road was based on a flawed EIA. Letter sent to Trafford Petterson is included on page 3. The widening on Kassier Road will need to take into account the critical ecosystems along both sides of the road. These include riverine trees, wetlands, streams and riparian zones that form an integral part of the Umhlatuzana catchment system.</p> <p>Please see the map and photo on page 2.</p> <p>A perennial steam runs alongside4 Kassier Road from the North and feeds the wetlands year around.</p> <p>A colony of Dwarf black-headed chameleons lie along Kassier Road. At this altitude, they are the highest group ever recorded. Because of their rarity an vulnerability, we are loath to broadcast this. Rasheida Davids – Environmental Planning and Climate Protection Dept. is looking at proclaiming additional wetlands in the North of Kassier Road as indicated in yellow.</p> <p>A large number of wild animals are found along Kassier Road and the Hulleys area. They appear to travel along the Kassier Road wetlands and use river corridors to move between Hulleys land and the Madwalas. Common and blue duiker, bushpigs, dassies, mongoose, porcupines and vervet monkeys have been seen along Kassier Road. Jackals were sighted on the Hullet site near Assagay Road.</p>	<p>Kassier Letter Jennie Lachlan 02/04/2012</p>	<p>Wildlife corridor will be addressed in the faunal assessment.</p> <p>Widening of Kassier Road Comments noted although not directly related to this project.</p> <p>THD Land Kassier Road between Emeraldene Gardens and M13.</p> <p>Comments noted but not related to sites in the current project.</p>
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According to Assagay Conservancy, 20 mammal species, have been recorded in Assagay, including: 7 species of mice/rats/shrews and bats. Thick-tailed bush baby, Large spotted genet, Otter and two Mongoose species. a dozen or so of snake species and a similar number of frogs have been identified. It is very clear that we live in an area with a diversity of habitats that support a wealth of fauna and flora., which needs to be actively conserved.

Any further widening of Kassier Road, should be done in an environmentally sensitive way with little disturbances and damage to these vital ecosystems. I believe there should be no large centre island and only minimal encroachment should be permitted.

TONGAAT HULETT LAND, KASSIER ROAD BETWEEN EMERALDENE GARDENS AND THE M13

A map, shown at the meeting, indicated this site is earmarked for future housing.

The natural features of this land include the Umhlatuzana River, a sweeping ridge of threatened Sandstone sourveld grassland Krantz and Kloof topography make it an important biodiversity asset, rich in wild flowers and birdlife and home to many of the animals listed above. Including KZN Dwarf chameleons.

eThekwini Municipality Outer West Spatial Development Plan 2010/11 mentions the need for expanding open space foot print around river corridors, especially in the Lower Molweni and Upper Umhlatuzana Rivers.

Wildlife in our area will be severely affected by habitat destruction, loss of food sources and human encroachment. a viable linking green corridor supporting the movement of the many species, would give them a fighting chance of survival.

The steep gradient of the hillside, presently under sugar cane, has an enormous of rainwater runoff. The floodplains and wetlands, the course of the river, plus established wildlife routes, would suggest the area (shown in pink on the map) should be set aside as a conservation Area or Nature Reserve.

Kassier Road is a real little gem along the 1000 Hills Tourist Route. Sadly all the building that has already taken place in the South is eroding the charming , rural country feel of Assagay, which attracted so many of us to this suburb in the first place. Photos showing the KZN Sandstone

<p>Sourveld Grassland after being sprayed with Roundup were sent to you. This section is the nesting site for a pair of long crested eagles. A rare threatened grassland section was destroyed in the blink of an eye and reinforces the urgent need to preserve ecosystems and the species that rely on them.</p>		
<p>I live on Highmead and am very interested to know what kind of residential development will take place on the Tongaat land north of the M13, between Highmead and Hillcrest. We have been told in the past that a low density eco estate was in the planning for this area. Is that still the thinking today.</p> <p>I note that it was mentioned at the public meeting that there are a lot of bicycle and horse riders in the area and thought would be given to this in the planning. I would like to support this request as it will be a hardship for many of us residents to be deprived of our country living and have no planning for green corridors through the light industrial areas. Could you perhaps say how this could come into the planning.</p>	<p>Marilyn Goldie 25/04/2012</p>	<p>Comment forwarded to THD. Not scope of this investigation.</p> <p>Open space corridors will be considered in the EIR.</p>
<p>Thank you for the opportunity to comment.</p> <p><u>Local Planning</u></p> <ul style="list-style-type: none"> - It would seem that the questions in many minds pertain to Need and Desirability considering the rapid commercial and business development in Hillcrest which apparently sees many buildings which are not fully occupied. The Shongweni Local Area Plan needs to be discussed relative to the greater area and not in isolation where a "need" for a Shongweni Town Centre is promoted. - It needs to be explained what environmental planning tools contributed to the development of LAP's and how the local environmental attributes contribute and are connected to the greater area. - Local Area Plans needs to address food security and the removal of agriculture land from urban environments is a concern. <p><u>Alternative Land Uses</u></p> <p>The development cannot be promoted on the strength of the Shongweni LAP and broad based strategic plans for 'development' along main movement corridors which are frequently cited. The interpretation of 'development' is often selective and biased towards the built environment. WESSA trusts that there will be comprehensive investigation into alternative land uses which the area is able to support.</p>	<p>Carolyn Schwegman WESSA 05/04/2012</p>	<p>LAP queries noted and forwarded to the council.</p> <p>Alternative Land Uses</p> <p>This EIA is to investigate possible alternate sites for the development of a multiuse retail development. For an alternative land use to be investigated it has to be feasible and the applicant has clear intention on the type of development proposed. Layout and design changes may be considered.</p> <p>Sustainability Measures</p> <p>Biophysical Measures These will be considered in the scoping report and in the EIR.</p>

<p><u>Sustainability Measures</u></p> <p>The term “sustainability measures” is used in the BID. We look forward to understanding more of this aspect of the development particularly with respect to resource use.</p> <p><u>Biophysical Environment</u></p> <p>The squeeze of urban development on natural areas, thus compromising ecosystem goods and services must be considered. In addition to facilitating ecological connectivity within both the project site and the greater area, adequate buffers must be in place to ensure habitat/ecosystem protection. WESSA would like to see the generally accepted minimum of 30 m around wetlands, 20 m riparian zones and 40 m from the drip line of natural forests applied, subject to specialist studies which may require greater buffer widths.</p> <p>WESSA looks forward to receiving further detail on the proposed development.</p>		
Draft Scoping Report Comments		
<p>I have no comment, it's my job to report on the comments of others.</p>	<p>Lachlan Nicholson Journalist - Hillcrest Fever 07 June 2012</p>	<p>Noted.</p>
<ul style="list-style-type: none"> • THE OPTIMUM SITE IS NOT INCLUDED IN THE SCOPING REPORT: The ideal site, the Polo Pony Fields and environs, contained by the N3, the M13 and Kassier Road, is being ignored because of an ownership issue and is not even listed as one of the alternatives. This is viewed as a total oversight. Negotiations have been held by THD with the owners in the past and although problems in the these negotiations may have been encountered over suitable compensation for acquisition, this does not necessarily mean that this situation remains locked for the future. <p>Furthermore, an environmental authorisation is only one issue to be considered. Another issue is that the land has to be appropriately zoned for a major regional centre commercial which will have impacts far and beyond the immediate environs. In selecting such a site, the mere issue of land ownership cannot be held to be the deciding issue. An environmental authorisation does not mean an automatic zoning approval by the authorities.</p> <p>Topographically the polo pony field site with much flatter terrain is far superior to the preferred site which apart from the much severer terrain, is dissected by drainage lines and is located in very close proximity to the Mhlatunza River and flanking forest. In addition</p>	<p>John Forbes Private Capacity 07 June 2012</p>	<p>These comments are noted, however, the option of the Poly Pony field site has been excluded as the NEMA regulations clearly state that only feasible alternatives can be included in the EIA process. An unsuccessful two year negotiation for the Polo Pony fields has resulted in this option been excluded from the EIA process.</p> <p>The EIA process is activity based and is not a strategic planning tool therefore the future development of the Polo Pony field is beyond the scope of this process. These issues, although relevant, will have to be dealt with in another forum as this EIA is specifically aimed and identifying and mitigating (if possible) environmental impacts of a proposed mixed use centre on the feasible site alternatives presented.</p> <p>Topography/height/shading of the natural environment is an important issue that is being considered in the EIA process and site 1 is less favourable than sites 2 and 3 in this regard. This is noted and will be considered as contributing deciding factor in the EIR.</p>

the Poly Pony site enjoys excellent visibility from the free-way system which must be a factor which any prospective major retail developer must consider. Particularly so, as this development, as a regional centre, will have to compete with the Pavilion and Liberty Mall which both enjoy good exposure. The mere fact that there will be good access to the free-way system is insufficient.

- **THE INEVITABILITY OF DEVELOPMENT ON THE POLO PONY SIDE OF THE ROAD:** Assuming that both environmental authorisation and suitable zoning is obtained in time, development will inevitable still occur on the optimum site, i.e. the Polo Pony site and environs, given its excellent location by way of access and exposure to the free-way system. It needs to be noted that the entire area situated between the free-ways has been identified as a major node in the Council's approved Shongweni Local Area Plan. Consequently any development on the preferred site must take this site into account by way of completion and demand for services and upgrades to the existing accesses from the free-way systems, be it full blown commercial (the most likely given the better topography) or office park.

It further needs to be mentioned that office parks on the preferred site would lend themselves far more to the topography.

- **MELROSE ARCH & NEW URBANISM:** The new urbanism concept as applied in Sea-sides in Florida, USA and more recently in Melrose Arch in Johannesburg is a very welcome change to the normal form of commercial development commonly undertaken in South Africa which normally consist of an islanded shopping centre surrounded by car parks.

"New Urbanism is a concept that attempts to reintroduce the old world charm back into new mixed use vibrant developments and to move away from the typical introverted shopping centre, often surrounded by sterile parking lots, generating no sense of place that categorize many suburbs. The new urbanism developments are places where cars are generally still to be found but are largely unseen and certainly not dominant".

This concept should be applied but in the right location.

- **HEIGHT:** The topography on the preferred site will inevitably result, if the concept plan is to be followed, in multi storied development (albeit

<p>that much of it may be multi-storied basement parking) flanking or in close proximity to the Mhlatusana River which is significantly below the level of Kassier Road. This will result in significant shading at certain times of the day and will impact on the natural environment in this area and eventually lead to the natural vegetation changing.</p> <p>I reserve the right to make further comment in due course before the closing date.</p>		
<p>Site Alternative 1 should be removed from consideration for the following reasons:</p> <ol style="list-style-type: none"> 1.It is clearly stated that it has significant traffic and congestion problems, with Kassier Road / M13 already being used beyond capacity. 2.The steepness of the site means that construction costs will be much higher, due to increased retaining structures. 3.There is potential negative impact on drainage / waterlines. 4.Residents and businesses bordering the site will be HUGELY negatively impacted due to increased construction traffic. <p>Why is this site being considered at all?</p>	<p>Antoinette Tigar CV Makeovers 10 June 2012</p>	<p>Noted comment on the unsuitability of Site 1. This is being taken forward into the EIR and there is a leaning towards site 2 and 3 as preferred options after the scoping exercise.</p> <p>Site 1 was initially considered due to its location in the SLAP (the area between the N3 and the M13).</p>
<p>This Department acknowledges the proposed plan of study to be followed in respect of the Environmental Impact Assessment (EIA) for the above-mentioned project as detailed in this report and has the following comments with regard to the proposed development:</p> <ol style="list-style-type: none"> 1. The comments and recommendations as per this Department letter dated 15 May 2012 with respect to the Background Information Document for this project are still applicable and must be addressed. <p>1.1 WATER USE AUTHORISATIONS</p> <p>1.1 The construction of canals, channels; bridges; dams and any other infrastructure within the watercourse or the riparian habitat or 1:100 floodline, whichever is the greatest distance from the watercourse will constitute water uses in terms of Section 21 (c) & Section 21 (i) water uses, define as “impeding or diverting the flow of water in watercourse” and “altering the bed, banks, course or characteristics of a watercourse” respectively in terms of the National Water Act, 1998 (Act 36 of 1998) (NWA)</p>	<p>DWA N Leburu</p> <p>22/06/2012</p>	<p>All comments noted and have been forwarded to the wetland specialist for consideration in the wetland impact report.</p> <p>A water services agreement will be obtained from the Water Services Authority.</p> <p>Sewerage management will be discussed in the EIR – an Engineering services report will be provided in this regard.</p> <p>A stormwater management plan will be developed for the activity on the site that is ultimately chosen for the development.</p> <p>The wetland impact assessment will consider all queries as presented.</p> <p>Solid waste and erosion will be addressed in the EIR and EMPr.</p> <p>The following plans and studies will be done and submitted with the EIR: Stormwater Management Plan, Spill Contingency Plan, Proof of Consultation with Water Authority, Detailed Plan for Upgrade of the Umlatusana Sewer Project, applications for any relevant Water Licenses.</p>

1.2 The construction of dams within a catchment will constitute a Section 21 (b) water use, defined as “storing water” and may further trigger a Section 21 (a) water use, defined as “taking water from a water resource” in terms of NWA.

Please contact Mr Norman Ward from this Department from the Water Resources Management Section of the Durban Office on 031 336 2700 to determine the type of authorisations required for these water uses as well as for registration of the water uses.

Detailed designs of the watercourse modifications, infrastructure on watercourse as well as dams must be submitted to this Department of assessment by the Civil Design section of this Department and the Dam Registration Office.

2. BASIC WATER SERVICES

2.1 Proof of consultation with the Water Services Authority for the provision of water supply for the proposed development must be submitted to this office. Should any other water services provider be used for this service, proof of a Service Agreement between the developer or applicant and the water supplier must be submitted to this Department.

2.2 Proof of consultation with the Water Services authority for the provision of wastewater collection and treatment for the proposed development must be submitted to this office. Should any other water services provider be used for this service, proof of a Service Agreement between the developer or applicant and the water supplier must be submitted to this Department.

2.1 The developer must further clearly state how sewage and waste water management be achieved on site during the construction phase of the proposed project. It is also this Departments experience that projects of this nature may result in the generation of small volumes of water containing waste being generated during the construction phase. In this instance, the following is applicable:

- Water containing waste must not be discharged into the natural environment.
- Measures to contain the water containing waste and safely dispose of it must be implemented.

3.1 WETLAND/RIPARIAN ZONES

3.1 The following is applicable if there are wetlands/riparian areas that are on or in close proximity to the site;

a) All wetlands must be delineated according to this Department's guideline entitled "A practical field procedure for identification and delineation of wetlands and riparian areas"

b) There must be a 20 meter buffer from the edge of the temporary wet zone of the wetland to the edge of any structural development. Visible markings showing/ demarcating the 20m buffer must be provided on site during the construction phase.

c) Should the developer not be in agreement with the 20m buffer zone, a functional assessment must be carried out to determine an appropriate buffer zone so that the wetland functioning is not impacted upon. The Functional Assessment will form part of the motivation as to why this Department should consider construction within the wetland functioning is not impacted upon.

The Functional Assessment will form part of the motivation as to why this Department should consider construction within the wetland or within the prescribed buffer. The document must address the issue as to how important that part of the wetland being destroyed is, compared with the overall functioning of the wetland.

d) If the applicant wishes to develop (structures, roads and other infrastructure) on the wetland or within the prescribed buffer as well as to rehabilitate any wetlands or riparian areas on the said property, an authorisation in terms of Chapter 4 of the National Water Act may be required. Please contact Mr Norman Ward on (031) 336 2700 in order to embark on the process to obtain the necessary authorisation (licence, etc) and forms with respect to the development occurring on a wetland.

3.2 Adequate measures must be put in place to protect the water resource(s) that flow next to as well as through the said property from being polluted and/or degraded. Visible markings showing/demarcating the buffers must be provided on site during the construction phase.

4. STORMWATER MANAGEMENT

3.3 It is important that stormwater is managed on site both during and after construction. The development and implementation of a stormwater management plan will facilitate this. Please note

that approval of this stormwater management plan must be obtained from the eThekweni municipality.

3.4 The stormwater drainage network system must be kept separate from the waste water (water containing waste) system.

3.5 Drainage must be controlled to ensure that runoff from the site will not culminate in off-site pollution or result in damage to properties downstream of any stormwater discharge.

5. EROSION

4.1 Soil erosion on site must be prevented at all times i.e. pre-, during – and post – construction activities. If soil erosion cannot be prevented, it must be minimised.

5. Erosion control measures to be implemented in areas sensitive to erosion such as near water supply points, edges of slopes, etc. these measures could include the use of sand bags, hessian sheets, retention or replacement of vegetation.

6. SOLID WASTE MANAGEMENT

6.1 All waste types and composition thereof anticipated to be generated must clearly be recommended that a Waste management plan be drawn up detailing how the different waste streams will be managed. This can be incorporated in the Environmental or Operational Management Plan.

6.2 Contaminated/hazardous materials are to be disposed off at a hazardous landfill site that is authorised to accept such waste material.

7. GENERAL

7.1 A Geotechnical survey of the study area must be compiled and included in the Scoping Report.

7.2 Information regarding the 1:50 and 1:100 year flood lines must be clearly demarcated on a topographical map.

7.3 A spill contingency plan must be developed.

7.4 Development of an Environmental Management Programme

7.5 Notwithstanding the above, the, responsibility rests with he applicant to identify any sources or potential sources of pollution from his undertaking and to take appropriate measures to

<p>prevent any pollution of the environment. Failure to comply with the requirements of the National Water Act, 1998 (Act 36 of 1998) could lead to legal action being instituted against the applicant).</p> <p>5. All water uses as defined in terms of Section 21 of the National Water Act, 1998 (Act 36 of 1998) must be authorised by this Department before the water uses can be exercised and must in addition be registered with this Department.</p> <p>6. Proof of consultation with the relevant Water Services Authority, as well as detailed plans for the upgrading of the Umhlatusana Waste Water Treatment Works an installation of a reticulation system for the proposed project should be forwarded to this office for evaluation and comment. All required water use authorisations (licenses, amendments etc) must be applied for from this Department prior to upgrading of the sewage treatment works. Please contact Mr N. Leburu of the Water Quality Management officials of this office for assistance in this regard.</p> <p>This Department awaits a copy of the EIR in order to provide further comment.</p>		
<p>We are extremely excited and 100% behind the new shopping complex. We know it will only benefit the entire area and community and obviously improve all the land values etc. etc.</p>	<p>Assagay Hotel Kathy & Jake Jacobs 04 July 2012</p>	<p>Noted.</p>
<p>1. An avi-faunal assessment conducted by a suitably qualified specialist which includes nesting areas, breeding seasons, necessary buffers etc.;</p> <p>2. An invertebrate assessment conducted by a suitably qualified specialist;</p> <p>3. A vegetation assessment and floristic assessment of natural grassland, wetland and forest habitats, undertaken by a suitably qualified specialist in the appropriate season.</p>	<p>Ezemvelo KZN Wildlife 12 July 2012 Azrah Essop</p>	<p>Vegetation and faunal specialist studies have been commissioned and will be conducted by Sivest.</p>
<ul style="list-style-type: none"> • Site 1 is mostly dominated by the Eucalyptus trees with a few sparse indigenous trees next to the river. • Site 2 has no environmental concerned as it is a sugar cane farm with no natural Forest and drainage lines on a fairly flat terrain. • Site 3 has a few Eucalyptus trees with no natural vegetation and a number of drainage lines on a steep terrain. • The proposed three sites are within the Tongaat Sugar Cane Farm. <p>DAFF does not object hence the proposed development will have no impact on the natural forest or protected tree(s). However, recommended that Proposed Site 2 be considered</p>	<p>DAFF 16 July 2012</p>	<p>Noted.</p>

<p>for the development as it is the suitable site for the proposed project. The letter does not exempt you from considering other environmental legislations.</p> <p>As I & APs residing in Assagay, the majority of our concerns were raised at the public meeting (which we were unable to attend) and have been noted within the report. To summarize our thoughts on the matter:</p> <ul style="list-style-type: none"> • Security Security is always a concern. There seems to be a trend whereby when construction takes place, crime in the area increases. Insurance providers require that clients inform them of any construction taking place in the nearby vicinity. • Traffic Traffic on Kassier Road and at the Kassier/M13 and Kassier/Old Main Road interchanges is already a nightmare, and the prolonged roadworks in Hillcrest are a bone of contention among Upper Highway residents. Further roadworks are unlikely to be welcomed by the local community. An important consideration, should Kassier Road be widened, is a set of traffic lights and clearly painted road markings at the entrance to the Engen petrol station as motorists and pedestrians tend to disregard the rules of the road when entering and exiting the garage. This area is also highly congested in the mornings and late afternoons. A final note on traffic: the recent roadworks on Hillcrest Old Main Road have resulted in huge road islands that take up valuable lane space and serve as an area for pedestrians to congregate (preventing drivers from accurately judging when it's safe to proceed), as a midpoint for running across roads (instead of crossing safely at traffic lights), and for taxis to stop illegally and pick up passengers. These actions endanger not only the pedestrians, but all road users. Kassier Road will need to be redesigned for safe use by motorists and pedestrians, preferably without similar dangerous road islands. • Pollution The noise and air pollution from the M13, N3 and Kassier Road is astronomical and gets continually worse with development (Hillcrest Private Hospital and the retirement village presently under construction are examples of this). The noise, dust and litter pollution generated by construction will negatively affect local residents. In addition, noise and air pollution from a mixed-use retail development will be an ongoing, perpetual problem due to parking lots, shoppers, early morning deliveries, restaurants, pubs, late night movies, etc. 	<p>Jo and Dave Sobey 17 July 2012 Private</p>	<p>Security: Noted. To be dealt with in the EMPr.</p> <p>Traffic: Full traffic assessment is being done on all three sites.</p> <p>Noise and Air pollution: Impacts to be addressed in the EIR and EMPr.</p> <p>Lifestyle: Comment noted. Need to upgrade existing facilities rather than develop new ones. To be addressed in the EIR.(Planning query)</p> <p>Information on THD: Please refer the company website for information on THD.</p> <p>Green Spaces in the LAP: The LAP has provided for green corridors and the Shongweni LAP can be obtained on the eThekweni web site.</p> <p>Water and Electricity Services A specialist engineering services study is being conducted for this project.</p> <p>Property valuation: Concern of impact of development on property values especially for Site 1. Noted and will be assessed in the EIR.</p> <p>Architecture and development: Noted.</p>
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- **Lifestyle**

The Assagay/Shongweni/Summerveld area is renowned for its peaceful, country lifestyle. This is a primary reason why people live there. Considering the many empty office blocks, vacant shops and low foot traffic in numerous Hillcrest, Kloof and Waterfall retail developments, this area does not have a current need for further development at this time or in the near future. Why not use the resources currently available and rejuvenate the towns already in place rather than destroy new green spaces?

- **Green spaces**

The Upper Highway has a conspicuous lack of safe, spacious, easily accessible green community areas. Yet another development destroys the opportunity for open green spaces in the area. What provision has been made in the Outer West Spatial Development Plan and the Shongweni LAP for vital “green lungs”?

- **Water and electricity services**

As Assagay residents on the southern side of the M13, we can attest to the regular, unannounced interruptions of water and electricity services. This is an issue that needs to be addressed as a retail development will drain resources.

- **Property valuations**

The devaluation of property (homes and investments) is a significant concern. A major selling point of the properties in this area is the view of greenery and vast open spaces. Another is the country-style atmosphere. A view of the site (alternative 1) as it currently looks (please excuse the photo-stitching, but it gives a good idea of the panoramic view):

Compare the appeal of the panoramic image and the aerial image below (sourced from the draft scoping report). Properties will be far more difficult to sell if the views are permanently ruined, the noise and air pollution increases and the country atmosphere is lost. Property values will plummet and returns on property investments will be poor.

- **Architecture and development**

Should the plans be given the go-ahead, this will be a first-of-its-kind, precedent-setting development for the Outer West. For this reason it's imperative that it sets a very high standard of sustainable, eco-friendly development with top quality design, architecture and “green development” best practices.

- **Tongaat Hulett Development**

It would be relevant to learn more about the developer, THD. It's important for the local

<p>community and I & APs to have an understanding of THD's development practices, reputation, and previous and current work. Unfortunately, there are developers that are renowned for promising the world, under-delivering and then disappearing onto the next project. As it's likely that some of the community and I & APs are not familiar with Tongaat Hulett Development, it would be beneficial for all affected by this potential development to be introduced to THD and be satisfied that it is a responsible, reputable developer.</p>		
<p>The initial knee jerk reaction to a "Gateway" type New Town Centre of concrete and glass in Shongweni (no matter how much they say they plan to blend it in, developers can't help themselves if I look at the "Layout Presentation" given at Assagay Hotel in March) is shock and horror as I think it will completely destroy the sense of place and it has me running for the next hill further out of town. The accompanying residential and mini-industrial development that will have to happen to feed this monster may be out of the present study scope but will be tomorrow's headache. The knock on effects go all the way to rush hour traffic on Field's Hill, kilometres away, as new residents avoid the twice daily toll. This is not progress, just development.</p> <p>The presentation gave the impression this was considered a regional development and people would flock from all over eThekweni and half way to Pietermaritzburg to come here. If all present proposals go ahead between Hillcrest and Molweni, I personally would have to drive past 7 other shopping complexes to get there from Waterfall and someone from Molweni will have to drive past 9; an unlikely scenario, particularly as we all strive to save fuel, travel less and buy local.</p> <p>Technically and procedurally I may not have any real objection to this development (most of the concerns such as storm water, sewage disposal and traffic can be engineered if enough money is thrown at them), however, this scale of development will irrevocably alter the nature of the entire area which was the primary reason for many of us moving here in the first place.</p>	<p>Debbie Abel 17/07/12 Private</p>	<p>Sense of place is noted and is a considered impact for the EIR.</p>
<p>1. Section 9.3 of the Draft Scoping Report says that Site alternative 1 has "no vegetation of conservation significance" yet the uMhlatazana River Corridor borders Site 1 along its entire eastern side.</p> <p>This River Corridor contains one of the last remaining patches of indigenous vegetation in the area. Site alternative 1 has more diversity of habitat than alternative Sites 2 and 3.</p> <p>2. Related to the above—Section 19 of the National Water Act lays down the processes to be followed</p>	<p>Sonya Keyser 16th July 2012</p>	<ol style="list-style-type: none"> 1. Noted. Will be reviewed in the vegetation specialist report. 2. Noted. The wetland specialist report will review buffers required for the development. 3. Noted proposed negative impact of development of Site 1 (as opposed to 2 or 3) of neighbours. To be detailed in socio impact study.

<p>when proposing the alteration of a water course inter alia that buffers need to be put in place between developments and water courses.</p> <p>The uMhlatazana River Corridor is a significant water course which is fed by a number of streams up the hill on the west, below Aintree Lane. What size do these buffers need to be? These buffers would presumably significantly reduce the size of the land available for development in Site alternative 1.</p> <p>3. In section 9.5 of the Draft Scoping report the identified environmental risk for assessment is expressed in the positive, viz:</p> <p>Identified environmental risk for assessment: Socio-economic impact of the proposed development on the residents of surrounding developments. Increase in community facilities, job opportunities and more accessible open space.</p> <p>Please note that as per previous submissions from me and other I and AP's - Site alternative 1 would result in a negative impact on the residents of surrounding properties, a decrease in community facilities and less accessible space.</p> <p>4. Section 9.10 on Sanitation is noted. Please confirm my understanding that none of the proposed alternative sites can go ahead without an upgrade to the uMhlatazana treatment works, which your report states is not yet planned, but for which the EIA has been done? What information have you got for us on the time-frame for this upgrade and how it will affect this development?</p> <p>5. Section 9.15 (Cultural) claims that there are no heritage buildings of historical significance on Site alternative 1 yet my understanding is that AMAFA permission is required to demolish buildings older than 60 years old? Permission would therefore have to be sought from AMAFA to demolish the farm buildings on Site alternative 1.</p>		<p>4. Environmental Authorisation has been granted for the upgrade of uMhlatazana Sewer line. This will be detailed in the engineering services specialist study.</p> <p>5. 5. Noted. A heritage specialist study is being done on all three sites.</p>
<p>I have no comments, thank you</p>	<p>Nicholas Hearn 13 July 2012</p>	<p>Noted.</p>
<p>No comments</p>	<p>Derek Bird 13 July 2012</p>	<p>Noted.</p>
<p>At this stage I have no comment to make.</p>	<p>Kevin & Jo Packer 15 July 2012</p>	<p>Noted.</p>
<p>We await the EIA. Thank you</p>	<p>Maurice Morgan 16 July 2012</p>	<p>Noted.</p>
<p>The report from Elana is very relevant, as she is part of one of our committees and has raised some very critical aspects relating to this development. Many of the aspects mentioned directly affect the preservation of what little bio-diversity we have left, and with Hillcrest being a town in transition; we sternly feel that the broader diversity issue has not been adequately addressed. Can you please</p>	<p>George Victor 02 July 2012</p>	<p>Comments are noted. Please be advised that specialist vegetation and faunal assessments as well as a wetland assessment is being done on all three sites to ensure that the full ecological impacts of the proposed development on any of the sites has been fully investigated.</p>

record these comments as issued raised by many members of the Hillcrest Conservancy and their many smaller conservancies registered within the Hillcrest boundary.

Thank you for giving us the opportunity to comment. Some of our concerns include the following:

Assagay/Shongweni is an area with special character and valuable environmental assets. It includes the Umhlatuzana River catchment area with its sensitive wetlands, and contains within it the remnants of one of the most endangered veldtypes, Sandstone Suurveld, as well as pockets of riverine forest. There are a variety of sensitive ecosystems that support between them a valuable biodiversity of species, fast disappearing under the pressure of ill-considered development. If active steps are not taken now to preserve these threatened resources, they will be gone forever.

Any development must take proper heed of this. The kind of development we would hope for is one that allows Assagay/Shongweni to retain its character as part of Valley of 1000 Hills and that continues to draw people to its diversity of pursuits and landmark attractions, such as its rural hills, animal farms, small game reserves, farmers' markets potters and crafters, tea gardens and nurseries, horseriding and cycling. To simply bulldoze it all away to make room for a monolithic shopping centre will greatly reduce the special attractiveness of the area and constitute an act of theft against the generations of the future.

We oppose the development in present form for the following reasons:

The region already has 5 shopping centres in a 5-km radius. A new mega shopping centre of the kind that is on the chart will be for the enrichment of the few at the expense of the many. What is needed is a proper plan for the area that 1) takes heed of the special semi-rural character of the area and allows it to be preserved 2) takes proper measures to safeguard the sensitive wetlands and other features against degradation 3) secures viable linking habitat corridors to ensure the biodiverse survival of species and 4) encourages a more equitable form of income-generation that gives room to small and emerging entrepreneurs as well as big enterprise

Environmental concerns

The provision for properly thought out corridor networks that will secure valuable habitat, allow the safe passage of wildlife in the area, and link with other conservancy corridors should be a vital aspect of any development, as this is critical for

Site 1 has, at this stage, exhibited the most potential impacts on the natural environment if the activity was to go ahead. This will be further assessed in the EIR.

The objection to another shopping centre is noted. Please be advised that a Local Area Plan for the Shongweni area has been prepared by the council that identifies this area for development of a regional multi use development.

Specialist studies will be conducted to ensure that the impact on the natural ecosystems is either avoided or mitigated against. This will be detailed in the EIR and EMP.

Only site 1 will impact the DMOSS that has been designed for the area. The impact on DMOSS and open space corridors is noted and will be investigated in the in EIR.

A wetland impact assessment is being done on all three sites to ensure that the wetlands are properly protected and managed.

A Stormwater management plan will be designed for the development to prevent contaminated run off from entering natural systems in the area.

A specialist study to investigate the socio-economic impacts of the development on the wider community has been commissioned this will be addressed in the EIR.

A full traffic impact assessment is being conducted to review traffic impacts and the assessment will form part of the EIR.

conservation in the area. A proper wildlife audit of the area has never been done to our knowledge but among species recently sighted around Kassier Rd, Assagay Rd and the Tongaat Hulette canefields are rare chameleons, endangered blue duiker, black-backed jackal, water mongoose and other varieties, porcupine, bush pig and more. Recent alien eradication work along Kassier Road reveals a surprising biodiversity of endemic species along the roadside, regenerating spontaneously as the alien overgrowth is removed.

Impact on Wetlands

Wetland areas such as these act as an important sponge for both absorbing excess run-off and groundwater retention during ever-worsening weather extremes. It is vital that proper buffer zones should be retained between these areas and any development, and that their functioning should not be compromised by spillage/run-off from adjacent commercial centres. Waste disposal by restaurants and other outlets should be rigorously controlled. The impermeable clay soil with its rock underlay increases the risk of badly managed run-off washing into the streams and wetlands during heavy rain. We are already seeing this with the construction of the outsized soak-away for the new retirement village that can be seen from Kassier Road, which fills up with water that does not drain away whenever it rains.

Risk to grasslands

Increase in vehicular traffic with its corresponding rise in CO₂ levels will impact negatively on the natural grasslands in the area – an already threatened resource. This is already being seen with the increase in bracken threatening to overtake the Sandstone Suurveld Ridge at the back of the Tongaat Hulette area, and in Springside Nature Reserve. Any impact study should include the effects of light pollution, which is highly compromising to bat populations in particular. It should also take seriously the effect that such architecture can have on surrounding landscapes, and the way in which choices in colour, construction and design can impact on global warming concerns through increased surface temperature, compromised water tables etc. The sacrifice of functioning natural systems to development is a luxury that can no longer be afforded. In the words of Town Planner John Forbes, quoted in a Sunday Tribune article, 11 April 2010 'It's only our natural systems that can provide services like clean air, climate stabilisation, rainfall ... and fertile soils. There are no human substitutes.'

Open space needs

As the Highway area becomes more densified, the need for open space – both recreational and as habitat conservation – becomes ever more pressing. Public and conservation spaces are virtually non-existent in the area at present and the wider scoping has ignored this. No healthy community can live boxed in by development, and the lack of park space and safe off-road zones that can be utilised for recreational pursuits such as dogwalking, jogging, cycling, horseriding etc that characterise the area needs to be remedied. The provision of cycle tracks and jogging trails must be included in any planning these should link up with the present cycle tracks along the railway reserve through Hillcrest.

The Tongaat Hulette sugarcane site stretching between Kassier Rd and the M13 (entrance opposite Assagay Road) is an important open space node for the area. Placed as it is in the centre of the Assagay/Hillcrest/Shongweni/Botha's Hill quadrangle, it also constitutes an important biodiversity refuge for many species, both flora and fauna, linking with the M13 grasslands. With its endangered Sandstone Suurveld grassland, river corridors, wetlands and steep gradients it lends itself to the idea of a jointly managed nature park, where restoration and maintenance of the natural habitat could co-exist in conjunction with the ongoing sugar cane activities. D'Moss newsletter of 2011 draws attention to the need for viable green corridors such as this to enable many species to survive climate change by changing their distribution patterns.

Wider socio-environmental impact

The effect of a new development of this size will inevitably suck the life out of CBDs such as Hillcrest, Bothas Hill and others. It is important to take due heed of the effect it will have not only on existing formal business, but on the sustainability of spaza shops and informal enterprise in the adjacent townships, with disastrous consequences. For the sustainability of the region as a whole, any responsible development would need to be inclusive not exclusive, making provision for smaller entrepreneurs as well as those from the surrounding areas to also have a stake.

In its present design, tenancy in the new Gateway-style centre is likely to be unaffordable to all except chain stores and upmarket enterprises, which means further polarisation between haves and have nots, with all the attendant ills of increased crime, poverty, unemployment and destitution that make an area, ultimately, unliveable.

Sitting as the area does within the high poverty zones of Embo, Molweni, KwaNyuswa and others, characterised by staggering unemployment and destitution, this becomes even more crucial. The longterm health and habitability of regions like this depends on taking active measures to improve social stability and achieving a more economically integrated population. Emphasis needs to be on building up the economies of the satellite areas and encouraging more scope for individual and semi-formal enterprise, with all its spin-off effects, rather than on constructing centralised shopping zones that will divert all trade to themselves for shortsighted gain.

Ultra-congestion

No provision for a public transport network seems to have been figured into the planning. Absence of safe and reliable public transport in the area means an ultra-reliance on private cars for even short trips. This will considerably increase congestion on the already burdened Kassier Road.

The effect on Kassier road has been partly ignored as this will become busier than the M13, and the proposed links of this road to Inanda Road would need to be included in any planning a slip road alongside the railway line was proposed at one stage. All of this would have to be in place well before construction on the new developments goes ahead.

Widening Kassier Road, however, will only partially alleviate the problem and will have several negative spin-offs, both environmentally and on non-vehicular road users. The widening will turn Kassier Rd into a high-speed highway, increasing the already considerable dangers to pedestrian and cyclist traffic as well as those disembarking from taxis at the junction of Assagay and Kassier Roads. As the main feeder-road to the Assagay area, Kassier Rd serves a high volume of foot traffic, whose needs have thus far been ignored – with fatal consequences and tragic loss of life.

Cycling is already popular in the area, both as a recreational pastime and as a means of early-morning and evening transport to and from work. The ever-escalating petrol cost will see more and more people forced to turn to alternative transport means, especially for short trips. Ensuring the provision of safe cycling paths that are properly barriered from vehicle traffic should be an essential component of any further development in the area. This would not only serve the safety needs of present cyclists but encourage more people to adopt this mode of transport, thus easing congestion on this road. A proper 24-hr traffic assessment that includes pedestrian and cyclist

<p>use would thus need to be factored into any road alteration plans.</p> <p>With the increased pressure on the remaining wildlife in the area, thought also needs to be given to construction of a wildlife underpass that allows safe passage between the river and wetlands at opposite sides of Kassier Road. (A similar strategy was negotiated by Dr Ron Urken of the University of KZN Conservancy during the road widening in Rick Turner Avenue in Durban. Though in the end never implemented, he might be able to advise on his research into this possibility.)</p>		
<p>In reference to the Electronic Communications Act no. 36 of 2005. This company's existing and propose underground and overhead infrastructure may be affected by the above-mentioned proposal. A markup of Telkom's infrastructure cannot be done on the plans provided. We require more detailed plans.</p> <p>Kindly inform the applicant that should they require the infrastructure to be relocated, it will be undertaken at their request and cost.</p> <p>Telkom SA cannot accept responsibility for any reinstatement costs and our infrastructure should be accessible at all time.</p> <p>Approval of the proposed is valid for six months. If construction has not yet commenced within this time period then the file must be resubmitted for approval. Any changes and deviations from the original planning during construction must be immediately communicated to this office.</p>	<p>Telkom Wayleaves Management</p> <p>12 July 2012</p>	<p>Noted. Will be forwarded to professional conducting services report.</p>
<p>With reference to the above mentioned Draft Scoping Report, please be advised that various Municipal Departments have had sight of the proposal and the following comments are submitted for your attention:-</p> <p>1. eThekweni Electricity Department The Electricity Department has no objection, however please note:</p> <ul style="list-style-type: none"> • The applicant must consult eThekweni Electricity's mains records (held in the drawing office at eThekweni Electricity Headquarters, 1 Jeff Taylor Crescent, for the presence of underground electrical services. In addition should any overhead line and/or servitude be affected, the specific permission of the Head: Electricity must be sought regarding the proposed development. • The relocation of MM/LV electrical services, if required in order to accommodate the proposed development, will be carried out at the expense of the applicant. 	<p>Diane van Rensburg eThekweni Municipality 26 July 2012</p>	<p>1. Electricity Department. Noted. To be addressed by as the specialists dealing with services.</p> <p>2. Environmental Department.</p>

2. Environmental Planning and Climate Protection Department.

This Department supports the need for a wetland delineation on all three sites. Watercourse should be rehabilitated and protected by means of a natural vegetation buffer of 30m or more.

Table 8 indicates that there will be impact on drainage line and wetlands on the site for alternative 1 but does not make mention of this impact for alternative 2 or 3, when there are clearly watercourse on both of these sites. Section 9.3 also makes this for Alternative 2.

3. Land use Management Branch

The Land Use Management Branch has no objection to the proposed development, as it is in line with the Outer West Spatial Development Plan (SDP) and the Shongweni Local Area Plan (LAP)

Currently there is no zone for the subject site; it is therefore "Undetermined". The other two identified alternatives sites are also 'Undetermined". Therefore, a rezoning application will be required to extend the scheme and to determine the impact the proposed development will have on the engineering services.

The proposed Regional Retail and Mixed Use Development must meet all the requirements of the relevant authorities prior to development.

4. Framework Planning Branch

Kindly be advised that this Branch supports Preferred Option 1 located within the Town Centre Core Area for the proposed development application and intentions. They are in line with both the Outer West Spatial Development Plan, dated November 2011 and the Council has approved the Shongweni Local Area Plan dated October 2010.

5. eThekweni Water and Sanitation

This development cannot be supported until such time as there is a sewer serving this site. The current EIA for the trunk sewer from this site to Umhlatuzana wastewater treatment works cannot be accepted as an approved sewer service.

Details need to be made available as to the proposed plan for the sewage. There are no other options given should the upgrade of Umhlatuzana WWTW not go ahead.

6. Durban Solid Waste

The document needs to be adjusted to include the proposed General landfill which would be situated in the same valley as the Enviroserv site but south of the Durban/Johannesburg railway line.

Wetland assessments are being done on all three sites and will be in the EIR that will access the preferred site from a wetland perspective. (Wetland Specialist to address in EIR).

3. Land Use Management

Comments noted.

4. Framework Planning.

Preference for Site 1 noted.

5. Water and Sanitation

Engineering Services Specialist report to address sewage management for inclusion in the EIR. Environmental Authorisation for uMhlatuzana Sewer upgrade has been issued.

6. DSW

Noted and will be included in EIR.

<p>7. Coastal, Stormwater and Catchment Management Department. This Department would require a Stormwater Management Plan and this has been recorded in the Draft Scoping Report. This Department has no further requirements.</p> <p>8. eThekweni Transport Authority Provincial Department of Transport (DoT) and Sanral to provide a comment on this application.</p> <p>A traffic report is required. In this regard, depending on the level of detail and analysis during LAP stage, the developer is required to provide a traffic report on the direct impact of the development on the existing road network. Furthermore, accessibility issues, mobility issues, public transport facilities, site circulation and other traffic and transportation related aspects may need to be addressed.</p> <p>Further from a Strategic Planning perspective this Branch request a transportation study for two reasons:</p> <ul style="list-style-type: none"> • to determine the regional/sub-regional implications on the transportation network/system • if the development is to be phased, what projections and assumptions are being used to determine future demands/needs etc. <p>9. Geotechnical Engineering Branch The Geotechnical investigation of the three sites has apparently been commissioned. This Branch will wait for these reports before providing further comment.</p>		<p>7. Coastal, Stormwater and Catchment Management Department. Noted.</p> <p>8. eThekweni Transport Authority Has been forwarded to specialist for review in TIA that is being done on the proposed development.</p> <p>9. Geotechnical Engineering Branch Noted.</p>
<p>My apologies for the delay in submitting comments. Please find our comments to the draft Scoping Report attached:</p>	<p>Nora Choveaux 01st August 2012</p>	<p>Please note that your comments are being addressed in full in the EIR and you will receive this report for comment. These comments were only received after the extended time allocated for response to the scoping report expired which is why they have not been included in the final scoping report. I have copied in the assessing officer as you sent your comments directly to the department. Please be advised that we would be happy to meet to discuss your concerns and go through the EIA process in detail with you- I am of the opinion that many of queries relating to the process and methodologies used etc. will be addressed when you receive the EIR. We only use specialists who have extensive EIA experience and use approved methodologies in all instances. You are welcome to request further information on the methods used by specialists once you have reviewed the specialist reports – or before if you like. Please note that these are all</p>

The report is comprehensive and generally captures the key aspects of the proposed development. Where we consider it lacking, is in two fundamental respects:

- Insufficient importance is attached to the major changes in land use and the associated induced off-site impacts that will surely be provoked by this development.
- Your assessment methodology is not disclosed. You explain what will be done during the assessment process, but not how this will be undertaken.

Change in Land Use and Off-site Impacts

There is a small but important omission in Table 7 (Permit and authorisations required for the project). It will be necessary to obtain the consent of the Minister of Agriculture under the Subdivision of Agricultural Land Act 70 of 1970 and this should be listed as one of the permissions needed. You do deal with the implications for agriculture later in the report but Table 7 should reflect this.

In section 9 dealing with surrounding land uses, we believe that the full implications of the creation of a new town centre that could be of the magnitude of “Gateway” and its surrounding developments are not sufficiently dealt with. You confine the issues to the direct impacts associated with the development of the proposed site.

No account is taken of the fact that all the neighbouring areas are likely to undergo massive changes in response to the proposed development. These changes will be largely social and economic initially, but this must ultimately lead to substantial and significant changes. The “catchment” that will be assessed to determine if a retail facility of the magnitude proposed is justified, must be assessed in terms the changes that will be provoked therein by the development.

The induced changes in these areas will impact on local planning processes. It is our concern that

professional people who are all experienced in this type of work.

- This is addressed in section 9 and section 11 of the scoping report and has been identified for investigation in the EIR. This is the purpose of the scoping report i.e. to identify issues for assessment in the EIR. Further to this a specialist agricultural resources assessment (see section 13 of the scoping report) is being done to assess the impact on the existing landuse and specialist vegetation, faunal and wetland assessments will assess the impacts on these landuses - as proposed.
- See section 16 of the scoping report – please note that this methodology has been approved by both DEA and DAEA.

Noted this will be addressed and amended in the EIR.

Comment noted this will be responded to in detail the EIR – these assessments are still being conducted and we will forward your comments to the relevant specialists for comment and then review and evaluate all the specialist inputs in the EIR. This is the aim of the scoping **and then** the EIR phase – i.e. to allow for development of these ideas and impacts. We have the required specialists on board to provide the required information – we have to follow the legislated process and allow the specialists to do their work and then take an overall look at submitted specialist reports.

changes will be forced on communities that may not want such change. The impact assessment phase must include an evaluation of planning processes in the region and the extent to which the public consultation that is required in planning processes, will in fact be carried out. If this not included in the assessment, you will not be able to present any credible findings on the overall regional impact of the proposed development on affected communities and their environments.

We are not suggesting that the environmental assessment process should interfere with municipal planning, but its potential to influence and even dictate future planning must be taken into account. Conversely, the municipality in its planning process must have access to environmental information that may be relevant to planning.

The report recognises that there will be significant socio-economic changes. We believe that these impacts must be viewed separately (i.e. social and economic impacts should not be conflated into a socio-economic report) and then, as a separate assessment, report on the interrelationship between them in the affected communities. Social changes in the local community are closely linked to environmental change and these changes must be predicted and assessed.

In summary, in section 9, while the identification of biophysical impacts is comprehensive, there is insufficient disclosure of how these impacts, and the extent to which they are likely to be experienced, will affect the social, economic and ecological environment. This weakness in the report is carried through to section 11. However, in fairness to you, it is probably premature to judge the final product at this early stage and before the result of the assessment is disclosed.

You do not deal with the second part of regulation 28(1) (e). You must consider the impact of the surrounding environment on the proposed activities. Please include a section that explains how this will be investigated, described and assessed.

PLAN OF STUDY

The quality of an assessment is determined largely by the content and quality of the plan of study for the environmental impact assessment. It is here that we have the most serious concerns with your approach as disclosed in section 12 which must be read with sections 13, 14 and 16. Our comments therefore span these sections.

We have made the point of the need to avoid the conflation of social and economic impacts. The

Noted.

Comment noted- as an experienced and accredited EAP I believe that the specialist study identified is sufficient to properly address your concerns. I will forward a detailed TOR from the specialist which will illustrate how your comments have been addressed.

This is assessed in the same manner as the impact of the development on the surrounding environment – there are numerous references throughout the scoping report that illustrate this. Please note that specialist studies such as geotechnical and traffic assessments prioritise this element of the assessment.

PLAN OF STUDY

I am sorry but I do not understand this at all. Both economic and social impacts will be

proposed specialist report described in section 13.6 must be re-defined and clear terms of reference provided to ensure that social and economic impacts are treated separately, albeit linked. The market research impact report is a separate issue altogether. While feasibility and market need are relevant, the fact that the development will promote economic activity and that the development will be a financial success for the developer, this does not mean that the affected communities will actually benefit, all factors taken into account. In our opinion, you need to re-think and re-structure this aspect of the EIA.

In section 14, your explanation of the content of the EIR is too simplistic. Interested and Affected Parties need to know what to expect when the EIR is published. You create the impression that the EIR will be entirely descriptive. You give no account of the need for analysis and assessment without which, the EIR will be no more than an expanded Scoping Report. We would have expected you to explain what is expected of an EIR. Although you have covered this in part in section 16, what you have covered, should be part of your description of the EIR.

Section 16 as you will observe from our comments below, does not describe your methodology but merely what will be contained in the EIR.

In section 16, you state in the heading that the section describes the "proposed method of assessing the environmental issues and alternatives". What you actually describe is the process and the content of the studies, not the method. Your charts and diagrams are useful, but they do not disclose any scientific method or way in which the data gathered will be analysed or assessed. We draw this conclusion from the first paragraph of section 16.0 on page 49 where you seem to indicate that the only tools of assessment will be "the professional judgment of the EAP based on previous EIA experience in the environmental and ecological fields". With respect, this is no basis for assessment of the many complex issues that are likely to emerge. The fact that it is based on "professional judgement" and "experience" makes the assessment entirely subjective, no matter how professionally independent you as the EAP may be.

Given the volume of work your consultancy undertakes (as disclosed in your presentation at the public meeting on 22nd March 2012), it is inconceivable that the entire assessment process will be undertaken by you. If you are assisted by staff that do not have comparable professional judgement or experience, we cannot have

reviewed extensively in the specialist report and I would request that you review this report and we will address any concerns that you have after this point in the process.

A separate market research study is being done – this is independent of the economic and social study.

Please advise exactly what additional information you need. The EIR description in both sections 14 and 16 is provide as per the regulations. I would be happy to go through these with you. This is accepted practice in terms of submission for the content and description of the EIR and is accepted by both the DEA and DAEA. Please refer to our web site for approval of this section in numerous other projects.

Please be advised that the methodology that we use in the compilation of the content in the EIR is provided. The significance of impacts is assessed and the level to which they can be mitigated. This is approved methodology by the department and is aimed at reducing subjective assessment.

Furthermore, each specialist has their own methodology for assessing impacts in their specific field. We check that these methodologies are appropriate before we accept the specialists. The methodologies will be detailed in the specialist reports. If you have any concern over the methodologies then these can be addressed at this stage or I can forward you the methodologies for review at your request

I am the EAP responsible for this project.

confidence that they will have the required competence to make assessments required in a project of this nature and size, even if this were an acceptable basis for assessment.

We would expect that your plan of study for the EIA would describe how the assessment will be undertaken, and not merely what will be undertaken.

Our major concerns are the following:

- The specialist reports are completed by independent practitioners working independently. It is important that the interrelationship between the different specialist studies is captured. No process is disclosed for any collaboration across disciplines. With respect, it may be beyond the competence of the EAP alone to achieve this. Ultimately, the sum total of the specialists' findings must be interpreted and applied in the overall assessments made.

- There is no disclosure of how environmental, social or economic value will be determined, described and assessed. For example:
 - Environmental value needs to be determined with reference to ecosystem and social value;
 - Social value needs to be defined: economic and non-economic values must be taken into account;
 - Economic value: ecosystems must be valued, community value must be assessed and the difference between capital and wealth generation as opposed to community benefits must distinguished.

- How will impact significance be determined? Account must be taken of desirability and acceptability.

- The interrelationships of impact magnitude, impact probability in determining environmental value must be explained. A method to achieve this must be disclosed.

- Intensity, extent and duration need to be weighted and valued in order to determine the ultimate impact that is to be measured and assessed.

- No risk assessments are disclosed.

Obviously it is not up to us to tell you how to do your job as an EAP. However, we are entitled to ask that you employ a credible scientific method in compiling the EIR. We are not satisfied that you have fully disclosed how you will undertake the assessment.

This is a given and is done by the project manager, the applicant and the EAP.

This is standard practice. Please identify any areas in the EIR, when you review it, that you are not satisfied with.

Detailed information of specialist methodology can be provided on request. Please review other EIR documents provided on our web site for information purposes.

We are confident that the description given is adequate – please indicate exactly what further scientific methodology you require and we provide any specialist methodology used and also the templates that we use to assess impacts etc. We do not undertake many of the

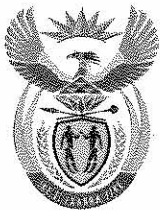
<p>If the assessment proves to be purely narrative and based on anecdotal experience without the underpinning of accepted science, we foresee that we will have negative comments when it is produced. Through the comments that we are now submitting, we hope to add value to the final EIR which ultimately is the document on which the Department of Agriculture, Environmental Affairs and Rural Development will base its decision.</p> <p>We hold the simple view that if the process and method is true, the conclusions that will be drawn are more likely to be trusted, and importantly, are likely to be right.</p>		<p>scientific investigations of the assessment – this is done by independent specialists who use accredited and approved scientific method to undertake their work to give credibility to the process. We work with these findings to make our assessments as per the methods described.</p> <p>Further to the responses I have provided I would respectfully request that you wait for the EIR as much of the information that you have requested is required in that part of the process.</p> <p>Any concern that you have over my ability to conduct the process can be lodged with the Department and/or EAPSA.</p>
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Comments received after Final Scoping Report acceptance

<p>I seem to recall that the proposed commercial site has now been shifted to the south of the N3. Have I got that correct?</p>	<p align="center">John Forbes 19 November 2012</p>	<p>Yes, alternative 2 has become the most viable option environmentally. This site is located south of the N3 and west of Kassier Road.</p>
<p>I do not understand the implications of this. Please explain in lay-persons terms what this means in terms of the proposed development? For example, I understood from the previous docs that there were 3 alternative sites being proposed? And do you have any information about the time-frames involved in all these processes? Specifically, when is building likely to commence if all is approved?</p>	<p align="center">Sonya Keyser 20 November 2012</p>	<p>The aim of the Scoping Report was to identify the feasible alternatives and impacts associated with those alternatives. The Department of Agriculture and Environmental Affairs (DAEA) has accepted the Scoping Report, which means that they are happy that we have explored all feasible alternatives and identified the corresponding impacts.</p> <p>At present KSEMS is waiting for all the relevant specialist reports that were identified in the Scoping Report. These include:</p> <p>Engineering Services Report Stormwater Management Plan Traffic Impact Assessment Geotechnical Assessment Agricultural Assessment Socio-economic and Market Research Impact Report Planning and Design Report Wetland Report</p> <p>Once these have been received (expected early/mid next year) KSEMS will prepare the Draft Environmental Impact Report (EIR). This will be a full impact assessment and summarize all the specialist reports, finally making an environmental recommendation. All three site alternatives will be explored</p>

		<p>further in the EIR with a focus on the preferred alternative site 2 (south of the N3). The Draft EIR will be made available to all Interested and Affected Parties (I&APs) for comment (40 days). Once all comments are received and responded to, the final will be submitted to the DAEA. Only if this is approved (can take up to 4 months) will the development go ahead.</p> <p>Once environmental approval is received building will commence. This is quite a lengthy process so depending on the Department and the applicant building could commence, at the earliest, towards the end of 2013 or more than likely later (estimated). I&APs will be kept informed along the entire process.</p>
<p>The text below, in red print, appeared on page 45 of the Draft Scoping Report.</p> <p>You are now advising that the Department of Agriculture and Environmental Affairs, have accepted the final Scoping Report, and that you are proceeding with the draft EIA. Does this mean that the Department accept your recommendations re Site 1, as not being the preferred site?</p> <p>Will your Draft EIA be for all Site Alternatives 1,2 & 3. Or does Site 1 remain as the preferred site, in spite of the below note?</p> <p>“The investigations done for this scoping report have resulted in the decision that Alternative 2 is more likely to be the preferred environmental option and initial public participation results indicate a preference for the development of Site Alternatives 2 or 3.”</p>	<p>Maurice Morgan Estate Manager for Aintree Lane 19 November 2012</p>	<p>The Draft Environmental Impact Report will still consider all three site alternatives with the specialist reports taking into account all three sites. The text in red print that you referred to gave the Department foresight into which alternative is more likely to be the best option from an environmental perspective. Site 1 remains the preferred option for the applicant however site 2 now becomes the preferred option in the Draft EIR.</p> <p>The Draft EIR will be made available for I&AP comment before it is submitted to the Department for approval so you will have further opportunity to comment on the proposed development.</p>
<p>Comments received during the public meeting (30th October 2013)</p>		
<p>1. Neighbours to the proposed reservoir site are concerned about the visual impact that it will have as currently, the residents look out onto open sugarcane fields.</p> <p>2. Is it not possible to relocate the reservoir to the opposite hill, which is of similar height thereby avoiding the reservoir being built directly adjacent to residential property.</p> <p>3. Construction and development of land usually results in an increase in crime. Residents are concerned that the proposal (including the</p>	<p>Bowles Road Community 30 October 2013</p>	<p>1. As part of the post construction phase, the EAP has included that the area disturbed by the pipeline and reservoir be rehabilitated back to its current state. The reservoir is to be located as far underground as practically possible.</p> <p>2. The EAP referred this comment to the Engineer who stated that the proposed alternate location (shown in Figure 1 below) is approximately 25m lower than the originally proposed position which would result in a fair portion of the proposed development not being serviced. The higher elevation is therefore required.</p> <p>3. The EAP has recommended that the entire site is to be fenced during the construction period to avoid trespassing. It is also a legal requirement in the Occupational Health and</p>

<p>construction of the pipeline) will pose a security risk to the area.</p> <p>4. Will the reservoir be noisy?</p> <p>5. Have provisions been made for a cell phone tower to be erected?</p> <p>6. What is the maximum building height?</p>		<p>Safety Act, that the property be fenced. Construction hours will be limited to day time and it has been recommended that a security personnel patrol the pipeline route where it runs adjacent to neighbouring properties during the construction phase.</p> <p>4. This query was forwarded to the Engineer who stated that the majority of the water feed would be gravity and therefore no need for pumps.</p> <p>5. No, this is a listed activity in terms of the EIA regulations and is not included in the scope of work.</p> <p>6. This will be decided at the planning phase however the applicant has stated that it will be of similar height to other "shopping mall" type developments (approximately three or four stories).</p>
Comments received on the Draft EIR		



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Enq: Mr. N. Leburu
Date: 15 May 2012
File: 16/2/7/U601/G1/X3
Tel: 031 336 2741
Fax: 031 305 9915
E-mail: leburun@dwa.gov.za

The Director
Kerry Seppings Environmental Management Specialists CC
P.O. Box 396
GILLITTS
3603

ATTENTION: MS TRENEL SEWRAJ

Dear Madam

RE: BACKGROUND INFORMATION DOCUMENT: PROPOSED CONSTRUCTION OF A CENTRE FOR RETAIL/MIXED USE DEVELOPMENT ON REMAINDER OF FARM KIRK FALLS NO.: 14227, DURBAN: TONGAAT HULETT DEVELOPMENTS.

Reference is made to the above-mentioned report dated 20 March 2012.

This Department apologises for the delay in responding to the above.

This Department has the following comments with regard to the proposed development:

1. WATER USE AUTHORISATIONS

- 1.1. The construction of canals, channels; bridges; dams and any other infrastructure within the watercourse or the riparian habitat or 1:100 floodline, whichever is the greatest distance from the watercourse will constitute water uses in terms of *Section 21 (c) & Section 21(i)* water uses, define as "impeding or diverting the flow of water in a watercourse" and "altering the bed, banks, course or characteristics of a watercourse" respectively in terms of the National Water Act, 1998 (Act 36 of 1998) (NWA).
- 1.2. The construction of dams within a catchment will constitute a *Section 21 (b)* water use, defined as "storing water" and may further trigger a *Section 21(a)* water use, defined as "taking water from a water resource" in terms of the NWA.

Please contact Mr. Norman Ward from this Department from the Water Resources Management Section of the Durban Office on 031 336 2700 to determine the type of authorizations required for these water uses as well as for registration of the water uses.

- 1.3. Detailed designs of the watercourse modifications, infrastructure on watercourse as well as dams must be submitted to this Department for assessment by the Civil Design section of this Department and the Dam Registration Office.

2. BASIC WATER SERVICES

- 2.1. Proof of consultation with the Water Services Authority for the provision of water supply for the proposed development must be submitted to this office. Should any other water services provider be used for this service, proof of a Service Agreement between the developer or applicant and the water supplier must be submitted to this Department.
- 2.2. Proof of consultation with the Water Services Authority for the provision of wastewater collection and treatment for the proposed development must be submitted to this office. Should any other water services provider be used for these services, proof of a Service Agreement between the developer or applicant and the water supplier must be submitted to this Department.
- 2.3. The developer must further clearly state how sewage and wastewater management would be achieved on site during the construction phase of the proposed project. It is also this Department's experience that projects of this nature may result in the generation of small volumes of water containing waste being generated during the construction phase. In this instance, the following is applicable:
 - Water containing waste must not be discharged into the natural environment.
 - Measures to contain the water containing waste and safely dispose off it must be implemented.

3. WETLANDS/RIPARIAN ZONES

- 3.1 The following is applicable if there are wetlands/riparian areas that are on or in close proximity to the site:
 - (a) All wetlands must be delineated according to this Department's guideline entitled "*A practical field procedure for identification and delineation of wetlands and riparian areas.*" (DWAF, 2005)
 - (b) There must be a 20 meter buffer from the edge of the temporary wet zone of the wetland to the edge of any structural development. Visible markings showing/demarcating the 20m buffer must be provided on site during the construction phase.
 - (c) Should the developer not be in agreement with the 20 m buffer zone, a functional assessment must be carried out to determine an appropriate buffer zone so that the wetland functioning is not impacted upon. The Functional Assessment will form part of the motivation as to why this Department should consider construction within the wetland or within the prescribed buffer. The document must address the issue as to how important that part of the wetland being destroyed is, compared with the overall functioning of the wetland.
 - (d) If the applicant wishes to **develop** (structures, roads and other infrastructure) **on the wetland or within the prescribed buffer** as well as to **rehabilitate any wetlands or riparian areas** on the said property, an authorisation in terms of Chapter 4 of the

National Water Act may be required. Please contact Mr Norman Ward on (031) 336 2700 in order to embark on the process to obtain the necessary authorisation (licence, etc) and forms with respect to the **development occurring on a wetland**.

- 3.2. Adequate measures must be put in place to protect the water resource(s) that flow next to as well as through the said property from being polluted and/or degraded. *Visible markings showing/demarcating the buffers must be provided on site during the construction phase.*

4. STORMWATER MANAGEMENT

- 4.1. It is important that stormwater is managed on site both during and after construction. The development and implementation of a stormwater management plan will facilitate this. Please note that approval of this stormwater management plan must be obtained from the eThekweni municipality.
- 4.2. The stormwater drainage network system must be kept separate from the waste water (water containing waste) system.
- 4.3. Drainage must be controlled to ensure that runoff from the site will not culminate in off-site pollution or result in damage to properties downstream of any stormwater discharge.

5. EROSION

- 5.1. Soil erosion on site must be prevented at all times i.e. pre-, during- and post- construction activities. If soil erosion cannot be prevented, it must be minimised.
- 5.2. Erosion control measures to be implemented in areas sensitive to erosion such as near water supply points, edges of slopes, etc. These measures could include the use of sand bags, hessian sheets, retention or replacement of vegetation

6. SOLID WASTE MANAGEMENT

- 6.1. All waste types and composition thereof anticipated to be generated must clearly be identified. It is recommended that a Waste management plan be drawn up detailing how the different waste streams will be managed. This can be incorporated in the Environmental or Operational Management Plan.
- 6.2. Contaminated/hazardous materials are to be disposed off at a permitted hazardous landfill site that is authorised to accept such waste material.

7. GENERAL

- 7.1. A Geotechnical survey of the study area must be compiled and included in the Scoping Report.
- 7.2. Information regarding the 1:50 and 1:100 year floodlines must be clearly demarcated on a

topographical map.

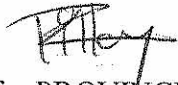
- 7.3. A spill contingency plan must be developed.
- 7.4. Development of an Environmental Management Programme.
- 7.5. Notwithstanding the above, the responsibility rests with the applicant to identify any sources or potential sources of pollution from his undertaking and to take appropriate measures to prevent any pollution of the environment. Failure to comply with the requirements of the National Water Act, 1998 (Act 36 of 1998) could lead to legal action being instituted against the applicant.

This Department awaits a copy of the Scoping Report in order to provide further comments.

This reply does not grant any exemption from the requirements of any applicable Act, Ordinance, Regulation or By-law.

Please do not hesitate to contact this office should you have any concerns, comments or queries.

Yours faithfully



for PROVINCIAL DIRECTOR: KWAZULU-NATAL
NL/nl/168524



Planning Division: IEM Section

Enquiries: Azrah Essop/Dominic Wieners

Your Ref:DM/0003/2012

Manager: Environmental Services South Region
C/o Assessing Officer
KZN DAEA & RD
Private Bag X9059
Pietermaritzburg
3200

12 July 2012

ATTENTION: SABELO NGCOBO

Dear Mr Ngcobo

PROPOSED TONGAAT HULETT SHONGWENI CENTRE FOR RETAIL MIX USE DEVELOPMENT ON REM OF THE FARM KIRKFALLS NO. 14227, DURBAN.

District Municipality: eThekweni Metro

The abovementioned application has been reviewed by the Ezemvelo KZN Wildlife (Ezemvelo) IEM Planning Committee. Based on the information provided, Ezemvelo is unable to comment at present due to insufficient information. Ezemvelo will therefore await the Environmental Impact Report for further review and comment. Ezemvelo supports the plan of study and would like the following specialist studies conducted at all site alternatives in order to make an informed decision:

1. An avi-faunal assessment conducted by a suitably qualified specialist which includes nesting areas, breeding seasons, necessary buffers etc.;
2. An invertebrate assessment conducted by a suitably qualified specialist;
3. A vegetation assessment and floristic assessment of natural grassland, wetland and forest habitats, undertaken by a suitably qualified specialist in the appropriate season.

Should you wish to discuss any of the points raised above or should any further biodiversity issues arise please do not hesitate to contact our offices.

Yours sincerely

pp
Coordinator IEM
For CEO : EZEMVELO KZN WILDLIFE
DATE : 12 July 2012

C:\azrah\1_Letters\Mixed Use\8119_Tongaathulett\OfficialComment_120712
Cc: Kerry Seppings Environmental Management Specialists cc; Malcolm Moses - DAEA

P O Box 13053, Cascades, 3202 • 1 Peter Brown Drive, Montrose, 3202 • Tel : +27 33 845 1346 Fax : +27 33 845 1499
www.kznwildlife.com

Ezemvelo KZN Wildlife Official Comment	DM/0003/2012	Proposed Tongaat Hulett Shongweni Centre For Retail Mix Use Development On Rem Of The Farm Kirkfalls No. 14227, Durban.	Page 1 of 1
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KSEMS

Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE
DM/0003/2012

From: Antoinette [<mailto:info@cvmakeovers.co.za>]

Sent: 10 June 2012 05:52 PM

To: 'KSEMS'

Subject: RE: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

Site Alternative 1 should be removed from consideration for the following reasons:

1. It is clearly stated that it has significant traffic and congestion problems, with Kassier Road / M13 already being used beyond capacity.
2. The steepness of the site means that construction costs will be much higher, due to increased retaining structures.
3. There is potential negative impact on drainage / waterlines.
4. Residents and businesses bordering the site will be HUGELY negatively impacted due to increased construction traffic.

Why is this site being considered at all?

Antoinette Tigar

Tel: 031-7657140

Cell: 082 482 5968

www.cvmakeovers.co.za

From: KSEMS [<mailto:kerry.seppings@telkomsa.net>]

Sent: 07 June 2012 01:39 PM

To: wayleaves2@telkom.co.za; Johnst_G@mtn.co.za; baronvonsorgs@gmail.com; julie.knatten@drummond.hk; ramlugaanr@durban.gov.za; ltbird@eastcoast.co.za; atcon@3i.co.za; dawsonap@telkomsa.net; colleen@worldonline.co.za; kayakc@worldonline.co.za; vah@mweb.co.za; za_hillcrest@ldsmail.net; maurice@preferred.co.za; melissavr@hps.co.za; info@cvmakeovers.co.za; grant@propco.co.za

Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

Dear All

Please be advised that the Draft Scoping for the above mentioned project has been released for comment. The Draft Scoping Report can be viewed electronically on our website at www.ksems.co.za. Please note that should you not be able to view the document on the website, a CD can be requested and will be available for a pick up at our offices.

Please note that a hard copy of the Draft Scoping Report is also available at the Hillcrest Library.

Please be advised that you have 40 days within which to comment. The comment period commences on the **6th of June 2012** and **ends on 17 of July 2012**.

It would be greatly appreciated if you could submit your comments within the given timeframe. Should you have no comments, please confirm this in writing.

Should you have any queries please feel free to contact us.

Kind Regards,
Trenell Sewraj
Junior Environmental Consultant

Kerry Seppings Environmental Management Specialists cc
4 Woodville Lane off Hawkstone Road, Summerveld, Assagay
Postal P.O. Box 396; Gillitts; 3603
Phone 079 322 2957
Fax 086 535 5281
Website www.ksems.co.za

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From: Trenell Sewraj [<mailto:trenell.ksems@telkomsa.net>]
Sent: 06 June 2012 09:25 AM
To: 'kerry.seppings@telkomsa.net'
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

Dear All

A Hard Copy for the above-mentioned project has been delivered to you. Please be advised that you have 40 days within which to comment on this BAR. The comment period commenced on the **06th of June 2012** and **ends on 17th of July 2012** .

It would be greatly appreciated if you could submit your comments within the given timeframe. If you have no comments, please could you state this in writing.

Should you have any queries please feel free to contact us.

Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



Kerry Seppings Environmental Management Specialists cc
4 Woodville Lane off Hawkstone Road, Summerveld, Assagay
Postal P.O. Box 396; Gillitts; 3603
Phone 079 322 2957
Fax 086 535 5281
Website www.ksems.co.za

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agriculture, forestry & fisheries

Department:
Agriculture, Forestry and Fisheries
REPUBLIC OF SOUTH AFRICA

Directorate Forestry, Private Bag X 9029, Pietermaritzburg 3200,

Tel: 033 392 7733

Fax cover

ROOM NO: OLD MUTUAL BUILDING 6TH
FLOOR

TO:	Kerry Stanton		
ORGANISATION:	Kerry Seppings Environmental Management Specialist		
FAX:	031 769 1579	086 535 5281	
TEL:	031 769 1578		

FROM:	PHINDILE BHUNGANE		
TEL:	033 392 7733	DATE:	2012-07-17
FAX:	033 342 8783 / 086 240 1364		

NO. PAGES:	2
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SUBJECT:	COMMENTS FOR THE DRAFT SCOPING REPORT FOR THE TONGAAT HULLET SHONGWENI CENTRE FOR RETAIL/MIX USE DEVELOPMENT(DM/0003/2012)
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MESSAGE: Good day

Kindly receive the above mentioned

Thank you,

Enjoy your Day

Ms Bhungane



agriculture, forestry & fisheries

Department:
Agriculture, Forestry and Fisheries
REPUBLIC OF SOUTH AFRICA

F 086 240 1364
T 0333927733
PhindileB@daff.gov.za

DAFF
Forestry Regulation
P/Bag x9029
Pietermaritzburg
3200.

Ms. Phindile Bhungane
16 July 2012

RE: Comments for the Draft Scoping Report for Tongaat Hullet Shongweni Centre for Ratail/Mix Use Development (DM/0003/2012)

The Department of Agriculture, Forestry and Fisheries (DAFF) appreciates the opportunity given to comment on the Basic Assessment Report for the above mentioned development. As per the site inspection conducted the following observations were made

- Site 1 is mostly dominated by the Eucalyptus trees with a few sparse indigenous trees next to the river.
- Site 2 has no environmental concerned as it is a sugar cane farm with no natural Forest and drainage lines on a fairly flat terrain.
- Site 3 has a few Eucalyptus trees with no natural vegetation and a number of drainage lines on a very steep terrain.
- The proposed three sites are within the Tongaat Sugar Cane Farm.

DAFF does not object hence the proposed development will have no impact on the natural forest or protected tree(s). However, recommend that Proposed Site 2 be considered for the development as it is the most suitable site for the proposed project.

This letter does not exempt you from considering other environmental legislations.

Should any further information be required, please do not hesitate to contact this office.

Yours faithfully

Ms. Phindile Bhungane

Forest Regulation & Support - KZN

KSEMS

From: KSEMS <kerry.seppings@telkomsa.net>
Sent: 17 July 2012 03:39 PM
To: ronell.ksems@telkomsa.net
Subject: FW: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

Kind Regards,



Kerry Seppings Environmental Management Specialists cc
Postal P.O. Box 396; Gillitts; 3603
Fax: 086 535 5281
Cell: 079 322 2957

Website www.ksems.co.za

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From: Debbie Abel [mailto:AbelD@durban.gov.za]
Sent: 17 July 2012 02:24 PM
To: KSEMS
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

Hi Trenell,

The initial knee jerk reaction to a "Gateway" type New Town Centre of concrete and glass in Shongweni (no matter how much they say they plan to blend it in, developers can't help themselves if I look at the "Layout Presentation" given at Assagay Hotel in March) is shock and horror as I think it will completely destroy the sense of place and it has me running for the next hill further out of town. The accompanying residential and mini-industrial development that will have to happen to feed this monster may be out of the present study scope but will be tomorrow's headache. The knock on effects go all the way to rush hour traffic on Field's Hill, kilometres away, as new residents avoid the twice daily toll. This is not progress, just development.

The presentation gave the impression this was considered a regional development and people would flock from all over eThekweni and half way to Pietermaritzburg to come here. If all present proposals go ahead between Hillcrest and Molweni, I personally would have to drive past 7 other shopping complexes to get there from Waterfall and someone from Molweni will have to drive past 9; an unlikely scenario, particularly as we all strive to save fuel, travel less and buy local.

Technically and procedurally I may not have any real objection to this development (most of the concerns such as storm water, sewage disposal and traffic can be engineered if enough money is thrown at them), however, this scale of development will irrevocably alter the nature of the entire area which was the primary reason for many of us moving here in the first place.

Regards

Debbie Abel
I & AP

[Groupwise Mail](#)

[Please read this confidentiality disclaimer:](#)

<http://www.durban.gov.za/Pages/edisclaimer.aspx>

>>> KSEMS <kerry.seppings@telkomsa.net> 2012/07/13 01:42 PM >>>

Dear All

Please be advised the comment period for the above mentioned project **ends on 17 of July 2012.**

It would be greatly appreciated if you could submit your comments within the given timeframe. Should you have no comments, please confirm this in writing.

Should you have any queries please feel free to contact us.

Kind Regards,
Trenell Sewraj
Junior Environmental Consultant

Kerry Seppings Environmental Management Specialists cc
4 Woodville Lane off Hawkstone Road, Summerveld, Assagay
Postal P.O. Box 396; Gillitts; 3603
Phone 079 322 2957
Fax 086 535 5281
Website www.ksems.co.za

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KSEMS

Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE
DM/0003/2012

From: Derek Bird [<mailto:bird@telkomsa.net>]
Sent: 13 July 2012 04:12 PM
To: 'KSEMS'
Subject: RE: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

No comments

Regards,
Derek Bird

From: KSEMS [<mailto:kerry.seppings@telkomsa.net>]
Sent: 13 July 2012 13:42
To: deniseg@wol.co.za; Derek Bird; motprop@telkomsa.net; nac@pmmtrust.org; hazyview@netactive.co.za; forbesj@eastcoast.co.za; jaandka@telkomsa.net; kross@dbnmail.co.za; newhamcrow@gmail.com; newnhamcrow@gmail.com; john@rjbprojects.co.za; lachlan.nicholson@expressmedia.co.za; lynette@tysonprop.co.za; patlyn@telkomsa.net
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

Dear All

Please be advised the comment period for the above mentioned project **ends on 17 of July 2012**.

It would be greatly appreciated if you could submit your comments within the given timeframe. Should you have no comments, please confirm this in writing.

Should you have any queries please feel free to contact us.

Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



Kerry Seppings Environmental Management Specialists cc
4 Woodville Lane off Hawkstone Road, Summerveld, Assagay
Postal P.O. Box 396; Gillitts; 3603
Phone 079 322 2957
Fax 086 535 5281
Website www.ksems.co.za

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From: Trenell Sewraj [<mailto:trenell.ksems@telkomsa.net>]
Sent: 06 June 2012 09:25 AM
To: 'kerry.seppings@telkomsa.net'
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

Dear All

A Hard Copy for the above-mentioned project has been delivered to you. Please be advised that you have 40 days within which to comment on this BAR. The comment period commenced on the **06th of June 2012** and **ends on 17th of July 2012** .

It would be greatly appreciated if you could submit your comments within the given timeframe. If you have no comments, please could you state this in writing.

Should you have any queries please feel free to contact us.

Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



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water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Enq: Mr. N. Leburu
Date: 22 June 2012
File: 16/2/7/U601/G1/X3
Tel: 031 336 2741
Fax: 031 305 9915
E-mail: leburun@dwa.gov.za

The Director
Kerry Seppings Environmental Management Specialists CC
P.O. Box 396
GILLITTS
3603

ATTENTION: MS TRENEL SEWRAJ

Dear Madam

RE: DRAFT SCOPING REPORT: PROPOSED CONSTRUCTION OF TONGAAT HULETT SHONGWENI CENTRE FOR RETAIL/MIXED USE DEVELOPMENT ON REM OF FARM KIRKFALLS NO.: 14227, KWAZULU NATAL:

Reference is made to the above-mentioned report received by this office on 31 May 2012.

This Department acknowledges the proposed plan of study to be followed in respect of the Environmental Impact Assessment (EIA) for the above-mentioned project as detailed in this report and has the following comments with regard to the proposed development:

1. The comments and recommendations as per this Department letter dated 15 May 2012 with respect to the Background Information Document for this project are still applicable and must be addressed.
2. All water uses as defined in terms of Section 21 of the National Water Act, 1998 (Act 36 of 1998) must be authorised by this Department before the water uses can be exercised and must in addition be registered with this Department.
3. Proof of consultation with the relevant Water Services Authority, as well as detailed plans for the upgrading of the Umhlatuzana Wastewater Treatment Works and installation of a reticulation system for the proposed project should be forwarded to this office for evaluation and comment. All required water use authorisations (licences, amendments etc) must be applied for from this Department prior to upgrading of the sewage treatment works. Please contact Mr. N. Leburu of the Water Quality Management officials of this office for assistance in this regard.

This Department awaits a copy of the EIA in order to provide further comments.

This reply does not grant any exemption from the requirements of any applicable Act, Ordinance, Regulation or By-law.

Please do not hesitate to contact this office should you have any concerns, comments or queries.

Yours faithfully

A handwritten signature in black ink, appearing to be 'K. Steyn', written in a cursive style.

for PROVINCIAL DIRECTOR: KWAZULU-NATAL
NL/nl/168600

**DEVELOPMENT PLANNING, ENVIRONMENT &
MANAGEMENT****LAND USE MANAGEMENT DEPARTMENT****FACSIMILE**

TO : Kerry Seppings Environmental Specialists
FAX No. : 0865355281
FROM : Diane van Rensburg
DATE : 26 July 2012
PAGES. : incl. 4

MESSAGE

Dear Manogrie,

Attached please find a letter dated 20 July 2012 containing the Municipality's comments for DPM/EIA 518A(OW).

Please note, should you require the original copies of the letter, please contact me to arrange for these to be sent to you, either by post or through your messenger/s.

Thank You.

Kind Regards,
Diane

**Please contact Diane van Rensburg
on (031) 3117136 if you experience problems with the
transmission of this fax.**



**Sustainable Development and City Enterprises
Development Planning, Environment & Management Unit
Land Use Management**

Central
166 K E Masinga Road
P O Box 680, Durban, 4000
Tel: 031 311 1111, Fax: 031 311 7776
www.durban.gov.za

Our Ref.: (21/11) DPM/EIA 518A(OW)
Enquiries: Mrs D. van Rensburg
Telephone: 031 – 3117136

20 July 2012

Kerry Seppings Environmental Specialists
P.O. Box 398
Gilletts
3603

Attention: Manogrie Chetty

Dear Sir/Madam,

RE: DRAFT SCOPING REPORT FOR THE PROPOSED CONSTRUCTION OF A CENTRE FOR RETAIL/MIXED USE DEVELOPMENT ON REM OF THE FARM KIRKFALLS NO 14227.

With reference to the abovementioned Draft Scoping Report, please be advised that various Municipal Departments have had sight of the proposal and the following comments are submitted for your attention:-

1. eThekwni Electricity Department.

The Electricity Department has no objection, however please note:

1. The applicant must consult eThekwni Electricity's mains records (held in the drawing office at eThekwni Electricity Headquarters, 1 Jelf Taylor Crescent, for the presence of underground electrical services. In addition should any overhead line and/or servitude be affected, the specific permission of the Head: Electricity must be sought regarding the proposed development.
2. The relocation of MV/LV electrical services, if required in order to accommodate the proposed development, will be carried out at the expense of the applicant.

2. Environmental Planning and Climate Protection Department.

This Department supports the need for a wetland delineation on all three sites. Watercourses should be rehabilitated and protected by means of a natural vegetation buffer of 30m or more.

Table 8 indicates that there will be impact on drainage line and wetlands on the site for alternative 1 but does not make mention of this impact for alternative 2 or 3, when there are clearly watercourses on both of these sites. Section 9.3 also makes this for Alternative 2.

3. Land Use Management Branch.

The Land Use Management Branch has no objection to the proposed development, as it is in line with the Outer West Spatial Development Plan (SDP) and the Shongweni Local Area Plan (LAP).

Currently there is no zone for the subject site; it is therefore "Undetermined". The other two identified alternative sites are also "Undetermined". Therefore, a rezoning application will be required to extend the scheme and to determine the impact the proposed development will have on the engineering services.

The proposed Regional Retail and Mixed Use Development must meet all the requirements of the relevant authorities prior to development.

4. Framework Planning Branch.

Kindly be advised that this Branch supports Preferred Option 1 located within the Town Centre Core Area for the proposed development application and intentions. They are in line with both the Outer West Spatial Development Plan, dated November 2011 and the Council has approved the Shongweni Local Area Plan, dated October 2010.

5. eThekweni Water and Sanitation.

This development cannot be supported until such time as there is a sewer serving this site. The current EIA for the trunk sewer from this site to Umhlatuzana wastewater treatment works cannot be accepted as an approved sewer service.

Details need to be made available as to the proposed plan for the sewage. There are no other options given should the upgrade of Umhlatuzana WWTW not go ahead.

6. Durban Solid Waste.

The document needs to be adjusted to include the proposed General landfill which would be situated in the same valley as the Enviroserv site but south of the Durban/Johannesburg railway line.

7. Coastal, Stormwater and Catchment Management Department.

This Department would require a Stormwater Management Plan and this has been recorded in the Draft Scoping Report. This Department has no further requirements.

8. eThekweni Transport Authority.

Provincial Department of Transport (Dot) and SANRAL to provide a comment on this application.

A traffic report is required. In this regard, depending on the level of detail and analysis during LAP stage, the developer is required to provide a traffic report on the direct impact of the development on the existing road network. Furthermore, accessibility issues, mobility issues, public transport facilities, site circulation and other traffic and transportation related aspects may need to be addressed.

Further, from a Strategic Planning perspective this Branch requests a transportation study for two reasons:

1. To determine the regional/sub-regional implications on the transportation network/system;
2. If the development is to be phased, what projections and assumptions are being used to determine future demands/needs etc.

9. Geotechnical Engineering Branch.

The geotechnical investigation of the three sites has apparently been commissioned. This Branch will wait for these reports before providing further comment.

Should you seek clarification on any of the above issues, please contact the writer on telephone: 031 - 3117138 or via e-mail: vanrensburgd@durban.gov.za In addition, the Department requests that a copy of the Record of Decision be faxed to 031 - 3117279.

Yours faithfully



DEPUTY HEAD: DEVELOPMENT PLANNING.

Copy To:
Department of Agriculture, Environmental Affairs and Rural
Development (Dbn)
Private Bag X 54321
Durban
4001

KSEMS

Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE
DM/0003/2012

From: KSEMS [<mailto:kerry.seppings@telkomsa.net>]

Sent: 05 July 2012 08:23 AM

To: 'George Victor'

Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

Hi George

Email received and it will be tabled and responded to.

Should you have any queries please feel free to contact us.

Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



Kerry Seppings Environmental Management Specialists cc

Postal P.O. Box 396; Gillitts; 3603

Fax: 086 535 5281

Cell: 079 322 2957

Website www.ksems.co.za

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From: George Victor [<mailto:georgevic@telkomsa.net>]

Sent: 02 July 2012 07:03 PM

To: KSEMS

Subject: Re: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

Hi Trenell,

Pleaser confirm that you have received this mail dealing with the comments requested. I want to table this at our forthcoming Hillcrest Conservancy AGM and have not had confirmation. Must I forward this to Kerry?

Regards,

George

Hi Trenell,

The report from Elana is very relevant, as she is part of one of our committees and has raised some very critical aspects relating to this development. Many of the aspects mentioned directly affect the preservation of what little bio-diversity we have left, and with Hillcrest being a town in transition; we sternly feel that the broader diversity issue has not been adequately addressed. Can you please record these comments as issued raised by many members of the Hillcrest Conservancy and their many smaller conservancies registered within the Hillcrest boundary.

Regards,

George 0739013902

Comments on the Draft Scoping Report for the THD Summerveld development

As I & APs residing in Assagay, the majority of our concerns were raised at the public meeting (which we were unable to attend) and have been noted within the report. To summarize our thoughts on the matter:

Security

Security is always a concern. There seems to be a trend whereby when construction takes place, crime in the area increases. Insurance providers require that clients inform them of any construction taking place in the nearby vicinity.

Traffic

Traffic on Kassier Road and at the Kassier/M13 and Kassier/Old Main Road interchanges is already a nightmare, and the prolonged roadworks in Hillcrest are a bone of contention among Upper Highway residents. Further roadworks are unlikely to be welcomed by the local community.

An important consideration, should Kassier Road be widened, is a set of traffic lights and clearly painted road markings at the entrance to the Engen petrol station as motorists and pedestrians tend to disregard the rules of the road when entering and exiting the garage. This area is also highly congested in the mornings and late afternoons.

A final note on traffic: the recent roadworks on Hillcrest Old Main Road have resulted in huge road islands that take up valuable lane space and serve as an area for pedestrians to congregate (preventing drivers from accurately judging when it's safe to proceed), as a midpoint for running across roads (instead of crossing safely at traffic lights), and for taxis to stop illegally and pick up passengers. These actions endanger not only the pedestrians, but all road users. Kassier Road will need to be redesigned for safe use by motorists and pedestrians, preferably without similar dangerous road islands.

Pollution

The noise and air pollution from the M13, N3 and Kassier Road is astronomical and gets continually worse with development (Hillcrest Private Hospital and the retirement village presently under construction are examples of this). The noise, dust and litter pollution generated by construction will negatively affect local residents. In addition, noise and air pollution from a mixed-use retail development will be an ongoing, perpetual problem due to parking lots, shoppers, early morning deliveries, restaurants, pubs, late night movies, etc.

Lifestyle

The Assagay/Shongweni/Summerveld area is renowned for its peaceful, country lifestyle. This is a primary reason why people live there. Considering the many empty office blocks, vacant shops and low foot traffic in numerous Hillcrest, Kloof and Waterfall retail developments, this area does not have a current need for further

development at this time or in the near future. Why not use the resources currently available and rejuvenate the towns already in place rather than destroy new green spaces?

Green spaces

The Upper Highway has a conspicuous lack of safe, spacious, easily accessible green community areas. Yet another development destroys the opportunity for open green spaces in the area. What provision has been made in the Outer West Spatial Development Plan and the Shongweni LAP for vital “green lungs”?

Water and electricity services

As Assagay residents on the southern side of the M13, we can attest to the regular, unannounced interruptions of water and electricity services. This is an issue that needs to be addressed as a retail development will drain resources.

Property valuations

The devaluation of property (homes and investments) is a significant concern. A major selling point of the properties in this area is the view of greenery and vast open spaces. Another is the country-style atmosphere. A view of the site (alternative 1) as it currently looks (please excuse the photo-stitching, but it gives a good idea of the panoramic view):



Compare the appeal of the panoramic image and the aerial image below (sourced from the draft scoping report). Properties will be far more difficult to sell if the views are permanently ruined, the noise and air pollution increases and the country atmosphere is lost. Property values will plummet and returns on property investments will be poor.



Architecture and development

Should the plans be given the go-ahead, this will be a first-of-its-kind, precedent-setting development for the Outer West. For this reason it's imperative that it sets a very high standard of sustainable, eco-friendly development with top quality design, architecture and "green development" best practices.

Tongaat Hulett Development

It would be relevant to learn more about the developer, THD. It's important for the local community and I & APs to have an understanding of THD's development practices, reputation, and previous and current work. Unfortunately, there are developers that are renowned for promising the world, under-delivering and then disappearing onto the next project. As it's likely that some of the community and I & APs are not familiar with Tongaat Hulett Development, it would be beneficial for all affected by this potential development to be introduced to THD and be satisfied that it is a responsible, reputable developer.

KSEMS

From: KSEMS <kerry.seppings@telkomsa.net>
Sent: 17 July 2012 03:40 PM
To: ronell.ksems@telkomsa.net
Subject: FW: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012
Attachments: THD Summerveld Mall Draft Scoping Report comments.pdf

Kind Regards,



Kerry Seppings Environmental Management Specialists cc
Postal P.O. Box 396; Gillitts; 3603
Fax: 0 8 6 5 3 5 5 2 8 1
Cell: 079 322 2957

Website www.ksems.co.za

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From: Jo Bowden [mailto:jlb.comms@gmail.com]
Sent: 17 July 2012 03:15 PM
To: KSEMS
Subject: Re: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

Dear Trenell,

Thank you for the detailed and accessible draft scoping report for the THD development. What a pleasure to be able to download and read it when convenient instead of having to take time off work to view a hard copy at the municipal offices.

Please see the attached PDF with our comments.

Thank you for your time,

Jo and Dave Sobey

On 13 July 2012 13:44, KSEMS <kerry.seppings@telkomsa.net> wrote:

Dear All

Please be advised the comment period for the above mentioned project **ends on 17 of July 2012**.

It would be greatly appreciated if you could submit your comments within the given timeframe. Should you have no comments, please confirm this in writing.

Should you have any queries please feel free to contact us.

Kind Regards,

Trenell Sewraj

J unior Environmental Consultant

Kerry Seppings Environmental Management Specialists cc

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Postal P.O. Box 396; Gillitts; 3603

Phone 079 322 2957

Fax 086 535 5281

Website www.ksems.co.za

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From: Trenell Sewraj [<mailto:trenell.ksems@telkomsa.net>]
Sent: 06 June 2012 09:25 AM
To: 'kerry.seppings@telkomsa.net'
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

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Should you have any queries please feel free to contact us.

Kind Regards,

Trenell Sewraj

Junior Environmental Consultant

Kerry Seppings Environmental Management Specialists cc

4 Woodville Lane off Hawkstone Road, Summerveld, Assagay

Postal P.O. Box 396; Gillitts; 3603

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KSEMS

Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE
DM/0003/2012

Attachments: forbesj.vcf

From: John Forbes [<mailto:forbesj@eastcoast.co.za>]
Sent: 07 June 2012 05:08 PM
To: KSEMS
Cc: Rory Wilkinson
Subject: Re: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

Dear Trenell,

Your request of 7 June 2012 for written comments on the draft scoping report for a proposed regional shopping centre refers. Please note this comment is made in my private capacity as a concerned resident of the area.

The draft scoping report is regarded at this stage as too simplistic other than to make general comments. No doubt the EIR will have more substantial comment. However the four points raised by me at the public meeting (second IAP in the minutes) are still considered valid. Namely:

THE OPTIMUM SITE IS NOT INCLUDED IN THE SCOPING REPORT

The ideal site, the Polo Pony Fields and environs, contained by the N3, the M13 and Kassier Road, is being ignored because of an ownership issue and is not even listed as one of the alternatives. This is viewed as a total oversight. Negotiations have been held by THD with the owners in the past and although problems in these negotiations may have been encountered over suitable compensation for acquisition, this does not necessarily mean that this situation remains locked for the future.

Furthermore, an environmental authorisation is only one issue to be considered. Another issue is that the land has to be appropriately zoned for a major regional centre commercial which will have impacts far and beyond the immediate environs. In selecting such a site, the mere issue of land ownership cannot be held to be the deciding issue. An environmental authorisation does not mean an automatic zoning approval by the authorities.

Topographically the polo pony field site with much flatter terrain is far superior to the preferred site which apart from the much severer terrain, is dissected by drainage lines and is located in very close proximity to the Mhlatunza River and flanking forest. In addition the Poly Pony site enjoys excellent visibility from the free-way system which must be a factor which any prospective major retail developer must consider. Particularly so, as this development, as a regional centre, will have to compete with the Pavilion and Liberty Mall which both enjoy good exposure. The mere fact that there will be good access to the free-way system is insufficient.

THE INEVITABILITY OF DEVELOPMENT ON THE POLO PONY SIDE OF THE ROAD

Assuming that both environmental authorisation and suitable zoning is obtained in time, development will inevitable still occur on the optimum site, i.e. the Polo Pony site and environs, given its excellent location by way of access and exposure to the free-way system. It needs to be noted that the entire area situated between the free-ways has been identified as a major node in the Council's approved Shongweni Local Area Plan. Consequently any development on the preferred site must take this site into account by way of completion and demand for services and upgrades to the existing accesses from the free-way systems, be it full blown commercial (the most likely given the better topography) or office park.

It further needs to be mentioned that office parks on the preferred site would lend themselves far more to the topography.

MELROSE ARCH & NEW URBANISM

The new urbanism concept as applied in Sea-sides in Florida, USA and more recently in Melrose Arch in Johannesburg is a very welcome change to the normal form of commercial development commonly undertaken in South Africa which normally consist of an islanded shopping centre surrounded by car parks.

"New Urbanism is a concept that attempts to reintroduce the old world charm back into new mixed use vibrant developments and to move away from the typical introverted shopping centre, often surrounded by sterile parking lots, generating no sense of place that categorise many suburbs. The new urbanism developments are places where cars are generally still to be found but are largely unseen and certainly not dominant".

This concept should be applied but in the right location.

HEIGHT

The topography on the preferred site will inevitably result, if the concept plan is to be followed, in multi storied development (albeit that much of it may be multi-storied basement parking) flanking or in close proximity to the Mhlatusana River which is significantly below the level of Kassier Road. This will result in significant shading at certain times of the day and will impact on the natural environment in this area and eventually lead to the natural vegetation changing.

I reserve the right to make further comment in due course before the closing date.

Yours sincerely,

John A Forbes

KSEMS

Subject: FW: re TONGAAT HULLET DEVELOPMENT RETAIL & COMMERCIAL CENTRE
DM/0003/2012

Importance: High

From: KATHY & JAKE JACOBS [<mailto:jaandka@telkomsa.net>]
Sent: 04 July 2012 03:32 PM
To: KSEMS
Subject: re TONGAAT HULLET DEVELOPMENT RETAIL & COMMERCIAL CENTRE DM/0003/2012
Importance: High

Dear Trenell,

We are extremely excited and 100% behind the new shopping complex . We know it will only benefit the entire area and community and obviously improve all the land values etc. etc.

Kindest regards,

Owner,

ASSAGAY HOTEL.

Kathy & Jake Jacobs

+27 83 778 1171

+27 83 778 1178

fmail: jaandka@telkomsa.net

KSEMS

Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE
DM/0003/2012

From: [\[mailto:daneridge@telkomsa.net\]](mailto:daneridge@telkomsa.net)

Sent: 15 July 2012 10:51 AM

To: KSEMS

Subject: RE: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

Dear Trenell

At this stage I have no comment to make.

Thank you

Regards

Kevin Packer

-----Original Message-----

From: KSEMS [\[mailto:kerry.seppings@telkomsa.net\]](mailto:kerry.seppings@telkomsa.net)

Sent: 13 July 2012 13:43

To: dave@cra-durban.co.za; lee@beetleinc.co.za; SusanW@hillcresthospital.co.za; amazona@iafrica.com; jenal@vodamail.co.za; Greg Beaumont; craigren@vodamail.co.za; Richc@ukzn.ac.za; pryce.robinson@gmail.com; dewetg@megafreight.co.za; Brems@telkomsa.net; warren.farrer@ref.co.za; georgevic@telkomsa.net; erky@gapp.net; daneridge@telkomsa.net

Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

Dear All

Please be advised the comment period for the above mentioned project **ends on 17 of July 2012.**

It would be greatly appreciated if you could submit your comments within the given timeframe. Should you have no comments, please confirm this in writing.

Should you have any queries please feel free to contact us.

Kind Regards,
Trenell Sewraj
Junior Environmental Consultant

Kerry Seppings Environmental Management Specialists cc
4 Woodville Lane off Hawkstone Road, Summerveld, Assagay
Postal P.O. Box 396; Gillitts; 3603
Phone 079 322 2957
Fax 086 535 5281
Website www.ksems.co.za

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From: Trenell Sewraj [<mailto:trenell.ksems@telkomsa.net>]
Sent: 06 June 2012 09:25 AM
To: 'kerry.seppings@telkomsa.net'
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

Dear All

A Hard Copy for the above-mentioned project has been delivered to you. Please be advised that you have 40 days within which to comment on this BAR. The comment period commenced on the **06th of June 2012** and **ends on 17th of July 2012** .

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Should you have any queries please feel free to contact us.

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Trenell Sewraj
Junior Environmental Consultant



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Version: 2012.0.2195 / Virus Database: 2437/5128 - Release Date: 07/12/12



Planning Division: IEM Section

Enquiries: Azrah Essop/Dominic Wieners

Your Ref:DM/0003/2012

Manager: Environmental Services South Region
C/o Assessing Officer
KZN DAEA & RD
Private Bag X9059
Pietermaritzburg
3200

12 July 2012

ATTENTION: SABELO NGCOBO

Dear Mr Ngcobo

PROPOSED TONGAAT HULETT SHONGWENI CENTRE FOR RETAIL MIX USE DEVELOPMENT ON REM OF THE FARM KIRKFALLS NO. 14227, DURBAN.

District Municipality: eThekweni Metro

The abovementioned application has been reviewed by the Ezemvelo KZN Wildlife (Ezemvelo) IEM Planning Committee. Based on the information provided, Ezemvelo is unable to comment at present due to insufficient information. Ezemvelo will therefore await the Environmental Impact Report for further review and comment. Ezemvelo supports the plan of study and would like the following specialist studies conducted at all site alternatives in order to make an informed decision:

1. An avi-faunal assessment conducted by a suitably qualified specialist which includes nesting areas, breeding seasons, necessary buffers etc.;
2. An invertebrate assessment conducted by a suitably qualified specialist;
3. A vegetation assessment and floristic assessment of natural grassland, wetland and forest habitats, undertaken by a suitably qualified specialist in the appropriate season.

Should you wish to discuss any of the points raised above or should any further biodiversity issues arise please do not hesitate to contact our offices.

Yours sincerely

pp
Coordinator IEM
For CEO : EZEMVELO KZN WILDLIFE
DATE : 12 July 2012

C:\azrah\1_Letters\Mixed Use\8119_Tongaathulett\OfficialComment_120712
Cc: Kerry Seppings Environmental Management Specialists cc; Malcolm Moses - DAEA

P O Box 13053, Cascades, 3202 • 1 Peter Brown Drive, Montrose, 3202 • Tel : +27 33 845 1346 Fax : +27 33 845 1499
www.kznwildlife.com

Ezemvelo KZN Wildlife Official Comment	DM/0003/2012	Proposed Tongaat Hulett Shongweni Centre For Retail Mix Use Development On Rem Of The Farm Kirkfalls No. 14227, Durban.	Page 1 of 1
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KSEMS

From: Lachlan Nicholson <Lachlan.Nicholson@expressmedia.co.za>
Sent: 07 June 2012 02:44 PM
To: KSEMS
Subject: RE: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

Hi

I have no comment, it's my job to report on the comments of others.

Kind regards

Lachlan Nicholson
Journalist - Hillcrest Fever
031 762 1831 / 076 385 2335
lachlan.nicholson@expressmedia.co.za

From: KSEMS [kerry.seppings@telkomsa.net]
Sent: Thursday, June 07, 2012 1:42 PM
To: deniseg@wol.co.za; Derek Bird; motprop@telkomsa.net; nac@pmmbrtrust.org; hazyview@netactive.co.za; forbesj@eastcoast.co.za; jaandka@telkomsa.net; kross@dbnmail.co.za; newhamcrow@gmail.com; newnhamcrow@gmail.com; john@rjbprojects.co.za; Lachlan Nicholson; lynette@tysonprop.co.za; patlyn@telkomsa.net
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

Dear All

Please be advised that the Draft Scoping for the above mentioned project has been released for comment. The Draft Scoping Report can be viewed electronically on our website at www.ksems.co.za. Please note that should you not be able to view the document on the website, a CD can be requested and will be available for a pick up at our offices.

Please note that a hard copy of the Draft Scoping Report is also available at the Hillcrest Library.

Please be advised that you have 40 days within which to comment. The comment period commences on the **6th of June 2012** and **ends on 17 of July 2012**.

It would be greatly appreciated if you could submit your comments within the given timeframe. Should you have no comments, please confirm this in writing.

Should you have any queries please feel free to contact us.

Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



Kerry Seppings Environmental Management Specialists cc
4 Woodville Lane off Hawkstone Road, Summerveld, Assagay
Postal P.O. Box 396; Gillitts; 3603
Phone 079 322 2957
Fax 086 535 5281
Website www.ksems.co.za

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From: Trenell Sewraj [<mailto:trenell.ksems@telkomsa.net>]
Sent: 06 June 2012 09:25 AM
To: 'kerry.seppings@telkomsa.net'
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Trenell Sewraj
Junior Environmental Consultant



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KSEMS

From: KSEMS <kerry.seppings@telkomsa.net>
Sent: 16 July 2012 11:34 AM
To: ronell.ksems@telkomsa.net
Subject: FW: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

Kind Regards,



Kerry Seppings Environmental Management Specialists cc
Postal P.O. Box 396; Gillitts; 3603
Fax: 086 535 5281
Cell: 079 322 2957

Website www.ksems.co.za

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From: Maurice Morgan [mailto:maurice@preferred.co.za]
Sent: 16 July 2012 10:00 AM
To: 'KSEMS'
Subject: RE: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

We await the EIA.

Thank you

Regards
Maurice Morgan
Trustee
Aintree Lane

From: KSEMS [mailto:kerry.seppings@telkomsa.net]
Sent: 13 July 2012 13:42
To: wayleaves2@telkom.co.za; Johnst_G@mtn.co.za; baronvonsorgs@gmail.com; julie.knatten@drummond.hk; ramlugaan@durban.gov.za; ltbird@eastcoast.co.za; atcon@3i.co.za; dawsonap@telkomsa.net;

colleen@worldonline.co.za; kayakc@worldonline.co.za; vah@mweb.co.za; za_hillcrest@ldsmail.net; maurice@preferred.co.za; melissavr@hps.co.za; info@cvmakeovers.co.za; grant@propco.co.za

Subject: RE: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

Dear All

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Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



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4 Woodville Lane off Hawkstone Road, Summerveld, Assagay
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Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



Kerry Seppings Environmental Management Specialists cc

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From: KSEMS <kerry.seppings@telkomsa.net>
Sent: 16 July 2012 11:35 AM
To: ronell.ksems@telkomsa.net
Subject: FW: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

Kind Regards,



Kerry Seppings Environmental Management Specialists cc
Postal P.O. Box 396; Gillitts; 3603
Fax: 086 535 5281
Cell: 079 322 2957

Website www.ksems.co.za

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From: Nicholas Hearn [mailto:nicholas@compass.za.net]
Sent: 13 July 2012 03:04 PM
To: KSEMS
Subject: RE: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

Hi Trenell

I have no comments, thank you.

Kind Regards,
Nicholas Hearn
KZN Operations Manager

Telephone Number : 031 792 4200
Facsimile Number : 086 573 9193
Mobile Number : 082 880 0177
Email address : nicholas@compass.za.net
Website : www.compass.za.net



From: KSEMS [<mailto:kerry.seppings@telkomsa.net>]

Sent: 13 July 2012 01:45 PM

To: vivienne@plantationsestate.co.za; sue.mbabala@gmail.com; itsmylife@telkomsa.net; anton@altix.co.za; liz@rattray.co.za; ahay@coxyeats.co.za; info@meditateindurban.org; Pam Flanagan; Nicholas Hearn; john@justdone.co.za; jlb.comms@gmail.com; msalicat@gmail.com; peter@kaytech.co.za; mjason@worldonline.co.za; mjason1972@gmail.com

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Sent: 06 June 2012 09:25 AM

To: 'kerry.seppings@telkomsa.net'

Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

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Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



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PRESERVATION OF THE MKONDENI MPUSHINI BIODIVERSITY
TRUST

PO Box 19925 Ashburton 3213

nac@pmbtrust.org

033 3963344 / 082 771 6324

1 August 2012

Mrs K. Stanton
KSEMS
P.O.Box 396
Gillitts
3603

Dear Mrs Stanton,

**COMMENTS ON DRAFT SCOPING REPORT: TONGAAT HULETT SHONGWENI CENTRE FOR
RETAIL/MIXED USE DEVELOPMENT (DM/0003/2012)**

Thank you for the opportunity to comment on this Draft Scoping Report.

The report is comprehensive and generally captures the key aspects of the proposed development. Where we consider it lacking, is in two fundamental respects:

- Insufficient importance is attached to the major changes in land use and the associated induced off-site impacts that will surely be provoked by this development.
- Your assessment methodology is not disclosed. You explain what will be done during the assessment process, but not how this will be undertaken.

Change in Land Use and Off-site Impacts

There is a small but important omission in Table 7 (Permit and authorisations required for the project). It will be necessary to obtain the consent of the Minister of Agriculture under the Subdivision of Agricultural Land Act 70 of 1970 and this should be listed as one of the permissions needed. You do deal with the implications for agriculture later in the report but Table 7 should reflect this.

In section 9 dealing with surrounding land uses, we believe that the full implications of the creation of a new town centre that could be of the magnitude of "Gateway" and its surrounding developments are not sufficiently dealt with. You confine the issues to the direct impacts associated with the development of the proposed site. No account is taken of the fact that all the neighbouring areas are likely to undergo massive changes in response to the proposed development. These changes will be largely social and economic initially, but this must ultimately lead to substantial and significant changes. The "catchment" that will be assessed to determine if a retail facility of the magnitude proposed is justified, must be assessed in terms the changes that will be provoked therein by the development.

The induced changes in these areas will impact on local planning processes. It is our concern that changes will be forced on communities that may not want such change. The impact assessment phase must include an evaluation of planning processes in the region and the extent to which the public consultation that is required in planning processes, will in fact be carried out. If this not included in the assessment, you will not be able to present any credible findings on the overall regional impact of the proposed development on affected communities and their environments.

We are not suggesting that the environmental assessment process should interfere with municipal planning, but its potential to influence and even dictate future planning must be taken into account. Conversely, the municipality in its planning process must have access to environmental information that may be relevant to planning.

The report recognises that there will be significant socio-economic changes. We believe that these impacts must be viewed separately (i.e. social and economic impacts should not be conflated into a socio-economic report) and then, as a separate assessment, report on the interrelationship between them in the affected communities. Social changes in the local community are closely linked to environmental change and these changes must be predicted and assessed.

In summary, in section 9, while the identification of biophysical impacts is comprehensive, there is insufficient disclosure of how these impacts, and the extent to which they are likely to be experienced, will affect the social, economic and ecological environment. This weakness in the report is carried through to section 11. However, in fairness to you, it is probably premature to judge the final product at this early stage and before the result of the assessment is disclosed.

You do not deal with the second part of regulation 28(1)(e). You must consider the impact of the surrounding environment on the proposed activities. Please include a section that explains how this will investigated, described and assessed.

PLAN OF STUDY

The quality of an assessment is determined largely by the content and quality of the plan of study for the environmental impact assessment. It is here that we have the most serious concerns with your approach as disclosed in section 12 which must be read with sections 13, 14 and 16. Our comments therefore span these sections.

We have made the point of the need to avoid the conflation of social and economic impacts. The proposed specialist report described in section 13.6 must be re-defined and clear terms of reference provided to ensure that social and economic impacts are treated separately, albeit linked. The market research impact report is a separate issue altogether. While feasibility and market need are relevant, the fact that the development will promote economic activity and that the development will be a financial success for the developer, this does not mean that the affected communities will actually benefit, all factors taken into account. In our opinion, you need to re-think and re-structure this aspect of the EIA.

In section 14, your explanation of the content of the EIR is too simplistic. Interested and Affected Parties need to know what to expect when the EIR is published. You create the impression that the EIR will be entirely descriptive. You give no account of the need for analysis and assessment without which, the EIR will be no more than an expanded Scoping Report. We would have expected you to explain what is expected of an EIR. Although you have covered this in part in section 16, what you have covered, should be part of your description of the EIR.

Section 16 as you will observe from our comments below, does not describe your methodology but merely what will be contained in the EIR.

In section 16, you state in the heading that the section describes the "proposed method of assessing the environmental issues and alternatives". What you actually describe is the process and the content of the studies, not the method. Your charts and diagrams are useful, but they do not disclose any scientific method or way in which the data gathered will be analysed or assessed. We draw this conclusion from the first paragraph of section 16.0 on page 49 where you seem to indicate that the only tools of assessment will be "the professional judgment of the EAP based on previous EIA experience in the environmental and ecological fields". With respect, this is no basis for assessment of the many complex issues that are likely to emerge. The fact that it is based on "professional judgement" and "experience" makes the assessment entirely subjective, no matter how professionally independent you as the EAP may be.

Given the volume of work your consultancy undertakes (as disclosed in your

presentation at the public meeting on 22nd March 2012), it is inconceivable that the entire assessment process will be undertaken by you. If you are assisted by staff that do not have comparable professional judgement or experience, we cannot have confidence that they will have the required competence to make assessments required in a project of this nature and size, even if this were an acceptable basis for assessment.

We would expect that your plan of study for the EIA would describe how the assessment will be undertaken, and not merely what will be undertaken.

Our major concerns are the following:

- The specialist reports are completed by independent practitioners working independently. It is important that the interrelationship between the different specialist studies is captured. No process is disclosed for any collaboration across disciplines. With respect, it may be beyond the competence of the EAP alone to achieve this. Ultimately, the sum total of the specialists' findings must be interpreted and applied in the overall assessments made.
- There is no disclosure of how environmental, social or economic value will be determined, described and assessed. For example:
 - Environmental value needs to be determined with reference to ecosystem and social value;
 - Social value needs to be defined: economic and non-economic values must be taken into account;
 - Economic value: ecosystems must be valued, community value must be assessed and the difference between capital and wealth generation as opposed to community benefits must distinguished.
- How will impact significance be determined? Account must be taken of desirability and acceptability.
- The interrelationships of impact magnitude, impact probability in determining environmental value must be explained. A method to achieve this must be disclosed.
- Intensity, extent and duration need to be weighted and valued in order to determine the ultimate impact that is to be measured and assessed.
- No risk assessments are disclosed.

Obviously it is not up to us to tell you how to do your job as an EAP. However, we are entitled to ask that you employ a credible scientific method in compiling the EIR. We are not satisfied that you have fully disclosed how you will undertake the assessment. If the assessment proves to be purely narrative and based on anecdotal experience without the underpinning of accepted science, we foresee that we will have negative comments when it is produced. Through the comments that we are now submitting, we hope to add value to the final EIR which ultimately is the document on which the Department of Agriculture, Environmental Affairs and Rural Development will base its decision.

We hold the simple view that if the process and method is true, the conclusions that will be drawn are more likely to be trusted, and importantly, are likely to be right.

Should you wish us to elaborate on any of our concerns, please let us know as we hope to make a meaningful contribution throughout the process.

Yours faithfully,

A handwritten signature in black ink that reads "N. Choveaux". The signature is written in a cursive style with a large, stylized initial "N".

Nora Choveaux

KSEMS

Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE
DM/0003/2012

Attachments: COMMENTS ON DRAFT SCOPING REPORT -1 1-8-2012.pdf

From: Nora Choveaux [<mailto:nac@pmbtrust.org>]
Sent: 01 August 2012 09:06 PM
To: KSEMS
Subject: Re: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

Dear Trenell,

My apologies for the delay in submitting comments. Please find our comments to the draft Scoping Report attached.

Regards
Nora Choveaux

On 13/07/2012 13:42, KSEMS wrote:

Dear All

Please be advised the comment period for the above mentioned project **ends on 17 of July 2012.**

It would be greatly appreciated if you could submit your comments within the given timeframe. Should you have no comments, please confirm this in writing.

Should you have any queries please feel free to contact us.

Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



Kerry Seppings Environmental Management Specialists cc
4 Woodville Lane off Hawkstone Road, Summerveld, Assagay
Postal P.O. Box 396; Gillitts; 3603
Phone 079 322 2957
Fax 086 535 5281
Website www.ksems.co.za

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From: Trenell Sewraj [<mailto:trenell.ksems@telkomsa.net>]
Sent: 06 June 2012 09:25 AM
To: 'kerry.seppings@telkomsa.net'
Subject: TONGAAT HULLET DEVELOPMENT RETAIL AND COMMERCIAL CENTRE DM/0003/2012

Dear All

A Hard Copy for the above-mentioned project has been delivered to you. Please be advised that you have 40 days within which to comment on this BAR. The comment period commenced on the **06th of June 2012** and **ends on 17th of July 2012** .

It would be greatly appreciated if you could submit your comments within the given timeframe. If you have no comments, please could you state this in writing.

Should you have any queries please feel free to contact us.

Kind Regards,
Trenell Sewraj
Junior Environmental Consultant



Kerry Seppings Environmental Management Specialists cc
4 Woodville Lane off Hawkstone Road, Summerveld, Assagay
Postal P.O. Box 396; Gillitts; 3603
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Response to Draft Scoping Report – THD Retail/Mixed Use Development – Shongweni

EIA Ref DM/0003/2012

I have a few comments and a few questions.

1. Section 9.3 of the Draft Scoping Report says that Site alternative 1 has “no vegetation of conservation significance” yet **the uMhlatazana River Corridor borders Site 1 along its entire eastern side.**

This River Corridor contains one of the last remaining patches of indigenous vegetation in the area. **Site alternative 1 has more diversity of habitat than alternative Sites 2 and 3.**

2. Related to the above – Section 19 of the National Water Act lays down the processes to be followed when proposing the alteration of a water course *inter alia* that **buffers** need to be put in place between developments and water courses.

The **uMhlatazana River Corridor is a significant water course** which is fed by a number of streams up the hill on the west, below Aintree Lane.

What size do these buffers need to be? These buffers would presumably significantly **reduce the size of the land available for development in Site alternative 1.**

3. In section 9.5 of the Draft Scoping report the identified environmental risk for assessment is expressed in the positive, viz:

Identified environmental risk for assessment: *Socio-economic impact of the proposed development on the residents of surrounding developments. Increase in community facilities, job opportunities and more accessible open space.*

Please note that as per previous submissions from me and other I and AP's - Site alternative 1 would result in a negative impact on the residents of surrounding properties, a decrease in community facilities and less accessible space.

4. Section 9.10 on Sanitation is noted. Please confirm my understanding that **none of the proposed alternative sites can go ahead without an upgrade to the uMhlatazana treatment works**, which your report states is not yet planned, but for which the EIA has been done? What information have you got for us on the time-frame for this upgrade and how it will affect this development?

5. Section 9.15 (Cultural) claims that there are no heritage buildings of historical significance on Site alternative 1 yet my understanding is that AMAFA permission is required to demolish buildings older than 60 years old? Permission would therefore have to be sought from AMAFA to demolish the farm buildings on Site alternative 1.

Thank you.

Sonya Keyser 16th July 2012



**Network Infrastructure Provisioning
Wayleave Management
EASTERN REGION**

Telkom SA Limited
Private Bag X54326
Durban 4000

Enquiries: Rishi Rampershad
Tel: (031) 363-3342
Fax: (031) 363-3589
E-mail: rampem@telkom.co.za

Our Ref. No: PP/1077/RR/12

Your Ref. No: DM/0003/2012

12 July 2012

Kerry Seppings Environmental Management Specialists cc
P.O. Box 396
Gillitts
3603

Dear Sir or Madam:

Tongaat Hulett Development (Reference number: DM/0003/12)- Construction of a centre for retail / mixed use development on the Rem of the farm Kirkfalls 14277.

Your notification dated 20 April 2012 refers.

In reference to the Electronic Communications Act no. 36 of 2005.

This company's existing and proposed underground and overhead infrastructure may be affected by the by the above-mentioned proposal.

A markup of Telkom's infrastructure cannot be done on the plans provided. We require more detailed plans.

Kindly inform the applicant that should they require the infrastructure to be relocated, it will be undertaken at their request and cost.

Telkom SA cannot accept responsibility for any reinstatement costs and our infrastructure should be accessible at all time.

Approval of the proposed is valid for six months. If construction has not yet commenced within this time period then the file must be resubmitted for approval. Any changes and deviations from the original planning during construction must be immediately communicated to this office.

Yours Faithfully

Operations Manager
Raymond Couch