

### 2.8.3 Water Authority

The relevant Water Authority is the Department of Water Affairs (DWA), Mpumalanga Regional Office (Bronkhorstspuit).

### 2.8.4 Groundwater

Water is obtained from two boreholes located on an adjacent property, approximately 1.5km from the site. The boreholes and land belong to Geluk 234 Eiendomme (Pty) Ltd. Please refer to Section 2.9 for a summary of the borehole yield tests that were conducted on the boreholes being used by AFGRI. Groundwater is the only source of water as no municipal supply is available at present. Utilisation of a municipal water supply is planned for the future.

At present, 14 to 15 litres of water is required for each chicken slaughtered at the abattoir. The current wastewater treatment process at the abattoir was re-evaluated and found to be inadequate for the current operation and any future expansions to the abattoir. AFGRI Poultry is therefore proposing an integrated ponding and wetland system for the treatment of the abattoir wastewater.

Approximately 50% of the treated water will be re-used in the abattoir process and made available to surrounding farmers for irrigation purposes. The re-use and irrigation of treated water will reduce the burden on the immediate groundwater system.

### 2.8.5 Storage of water

Clean water at the abattoir is stored in two dams (water reservoirs) that have a combined capacity of 1 200m<sup>3</sup>.

## 2.9 Borehole Yield Tests

The two boreholes (DEBH01 and DEBH02) that are currently used by AFGRI to supply process and domestic water to the Delmas abattoir were subjected to constant rate borehole testing to determine their sustainable yield and zone of influence. Samples were also taken to determine the quality of the groundwater. This was conducted by Mr. Scholtz of Shangoni AquiScience in August 2012. The full report is attached under Appendix D and the following is a summary of the main findings from the study:

### 2.9.1 Sustainable Yield

The two boreholes were subjected to constant rate borehole testing with presently equipped pumps. The yield test data were evaluated using the Flow Characteristic (FC) Method. The following table shows the results of the constant rate test for the two boreholes:



Table 10: Borehole and constant rate test information

BH ID	Depth (m)	RWL	Constant rate yield test (min)	Drawdown	Recovery (min)	Discharge (l/s)	Observation borehole
DEBH01	69	7.51	360	8.29	540 (90%)	15	DEBH01
DEBH02	60	7.62	360	15.05	360 (90%)	18	DEBH02

For borehole 1 (DEBH01), the recommended sustainable yield is 15.41l/s. It is recommended that the borehole is pumped at a rate of 15l/s for 24 hours per day. The recommended yield per day is 1 331m<sup>3</sup>.

For borehole 2 (DEBH02), the recommended sustainable yield is 10.25l/s. It is recommended that the borehole is pumped at a rate of 18l/s for 14 hours per day. The recommended yield per day is 886m<sup>3</sup>.

As there is a risk of sinkholes forming, the sustainable yields were calculated using an available drawdown of 40m.

### 2.9.2 Zone of Influence

The zone of influence or cone of depression is the cone shaped area around a borehole caused by the lowering of the water table through abstraction from the borehole. To determine the zone of influence of a borehole, the aquifer's characteristics (transmissivity and storativity) must be known. The aquifer characteristics are shown in the table below:

Table 11: Aquifer characteristics

BH ID	Transmissivity (m <sup>2</sup> /d)	Storativity	Observation borehole
DEBH01	85.9	0.005	DEBH02
DEBH02	79.4	0.005	

The aquifer characteristics were used to model the cone of depression for borehole DEBH02 (closest to the Delmas abattoir). This borehole is situated approximately 1km from the abattoir. At a radius of 1km, drawdown of only 0.83m will be reached at the abattoir after a pumping time of 30 days.

The proposed WWTW will be situated approximately 840m away from borehole DEBH02. The cone of depression will therefore not have an effect on the stability of the area where the WWTW will be built.



### 2.9.3 Groundwater Quality

Groundwater samples were taken from both boreholes and analysed at a SANAS accredited testing laboratory. The analyses included organic (TOC), inorganic and bacteriological parameters. Groundwater from both boreholes can be described as neutral, non-saline and soft with all parameters falling well within the South African National Standard for potable water (SANS 241-1:2011). Total coliforms and *E. coli* levels were below detection levels, indicating that the possible presence of any disease causing organisms is very low or zero (Scholtz, 2012).

## 2.10 Noise

Noise in the area is generated mainly by farming activities, abattoir activities, general bird and animal life, and trucks and cars that drive past the abattoir on the R50.

Noise will mostly be generated during the construction of the WWTW. Pumps and aerators will contribute to noise creation during the operational phase of the WWTW.

According to Jorgensen & Johnson (1981), the noise levels generated by general construction activities on a building site can reach levels of approximately 70 dB, caused by for instance heavy machinery. It can therefore be assumed that the proposed development will have a negative impact on the environmental noise of the area once construction starts.

Sound is inversely proportional to the distance from the source and can get absorbed by buildings and vegetation barriers. Noise intensities (dB) will be at their highest on site and will decrease as you move away from their sources.

The decline curve below (Figure 51) gives an indication of how noise generated at the site will decrease with distance. This gives a clear indication of the distance that the sound would have travelled upon reaching a level of 60 dB, prescribed by the SABS as being the acceptable limit for environmental noise.

According to Figure 51, at a distance of 27 metres from the construction site, the generated noise would have decreased to a level of 60 dB and at a distance of 45 metres it would have decreased to approximately 55dB. It can therefore be said that noise travelling further than 45 metres will have a low impact on neighbouring farms and residential areas.



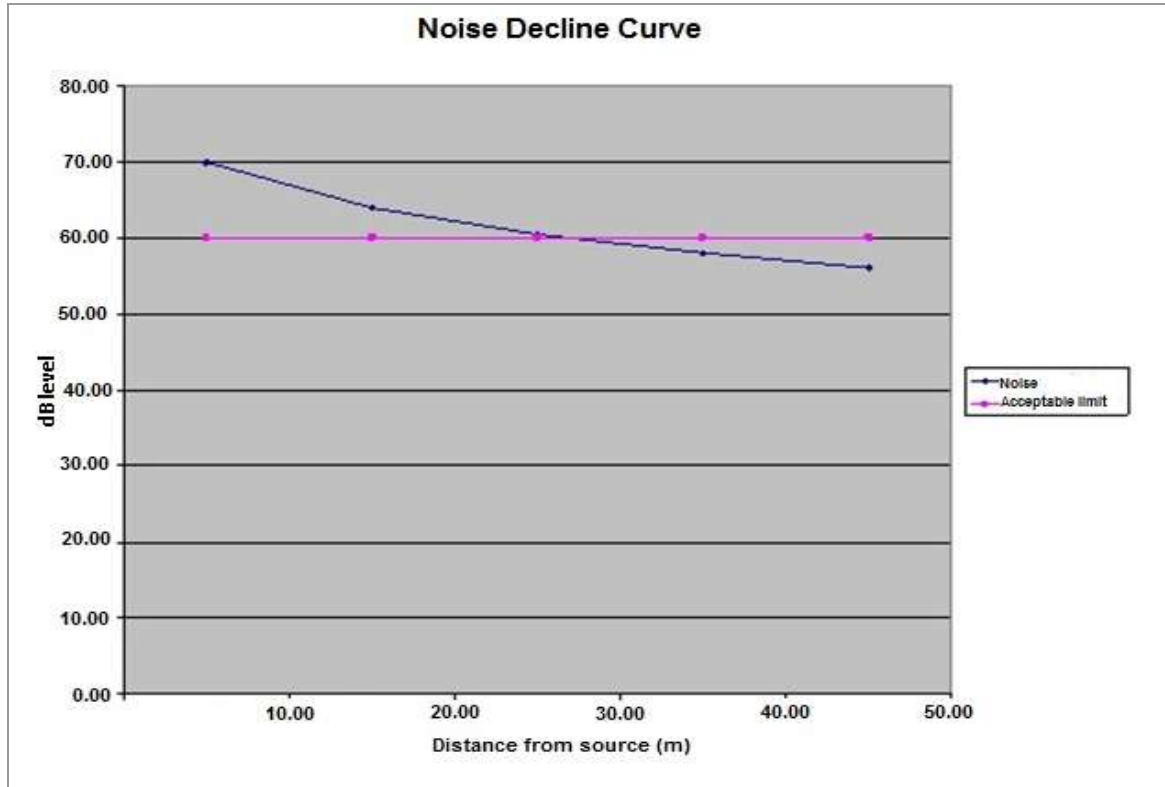


Figure 51: Noise decline curve.

Neighboring farms and residential areas are further than 45m from the proposed construction site, as shown in the figure below. The noise generated will therefore have a low impact on neighbouring farms and residential areas.





Figure 52: Distance of neighbouring receptors from the WWTW

## 2.11 Sites of archaeological and cultural interest

A site walk-through of the proposed development was undertaken. The objective of the study was to identify possible archaeological, cultural and historic sites within the proposed development areas.

No obvious features, sites, graves or artefacts of cultural significance that would be impacted on by the proposed development were found. Should any evidence of archaeological sites or remains be found during construction, all construction activities must immediately cease and the South African Heritage Resources Agency (SAHRA) must be notified.

## 2.12 Visual aspects

The N12 runs approximately 3.5km from the proposed site. The neighbouring houses are situated between 900m and 1.5 km from the proposed site. Visual impact is reduced over distance, thus the proposed wastewater treatment works is not expected to have a significant impact on the N12 road users or the surrounding neighbours.

Negative public opinion can mainly be contributed to the contrast between the general natural environment and the infrastructure coupled with the proposed project. The proposed wastewater treatment works is to be constructed in an area where the natural vegetation is



disturbed and the design of the integrated ponding and constructed wetland system will follow the existing topography. The proposed wastewater treatment works will therefore not have a significant visual impact on the R50 road users and the surrounding environment.

## **2.13 Air Quality**

### **2.13.1 Construction Phase**

The proposed development will have a short-term and low, negative impact on the air quality of the property as a result of dust from excavation activities that will take place during the construction phase of the project. Construction equipment will primarily produce emissions of nitrogen oxides (NO<sub>x</sub>), hydrocarbons, suspended particulates and small amounts of sulphur dioxide (SO<sub>2</sub>) from the use of diesel fuel (PM Group, 2006). With the correct mitigation measures introduced the dust can be controlled by means of suppression techniques such as the watering of cleared areas and the introduction of speed limits for construction vehicles operating onsite.

### **2.13.2 Operational Phase**

While the WWTW is designed to inhibit the release of odorous compounds, some odours will be released during the operational phase. These can include methane, ammonia and hydrogen sulphide.

During the first months of the commissioning phase, severe odour generation will occur due to biological instability. The odours are caused by mercaptan and sulphide odorous gases.

Odours will be significantly reduced through effective operation and the predominant long-term smell will be an “organic compost odour” that will be notable within 100m from the WWTW.

The effective treatment of the abattoir wastewater will also decrease the odours that are currently produced through the release of only partially treated wastewater into the environment. This reduction in odour will have an overall positive impact on the current air quality.

## **2.14 Socio-economic aspects**

The site is located within the Victor Khanye Local Municipality.

### **2.14.1 Demography**

According to the census taken in 2001, it was found that 56 207 people formed part of 13 391 households in the Delmas Local Municipality. This means that there was an average of 4.2



people per household. Table 12 below indicates the Census 2001 population statistics for the Delmas Municipal Area.

*Table 12: Delmas municipality population statistics (Census 2011).*

Population group	Figures
African	49 643
Coloured	256
Indian or Asian	101
White	6 205
<b>Total population</b>	<b>56 205</b>

Approximately 51% of the population is female. In terms of age and gender, Delmas has a relatively young population, with 54 % of the population between the ages of 0 and 24 years. This is marginally lower than the 58 % for the Mpumalanga Province as a whole.

### **2.14.2 Major economic activities**

The Victor Khanye Local Municipality is strategically located between Johannesburg in the Gauteng province and Nelspruit in the Mpumalanga province and forms part of the Nkangala District Municipality. The N12, which runs through the site, joins the N4 Maputo corridor, the main link between the Gauteng province, Mpumalanga province and Mozambique.

Farming is the most dominant economic activity in the municipality, occupying approximately 60 % of the total physical area. However, in terms of output and proportional contribution to the local economy, the largest sector is trade, followed by agriculture and mining sectors.

### **2.14.3 Unemployment and employment**

Dependency and unemployment rates are very high in the Victor Khanye Municipal area. The census done in 2001 found that approximately 41% of the population was economically active, with 23.5% of the economically active population being employed and 75% unemployed.

Poor skill aptitude can be deduced from the fact that 33% of the employment population works in elementary occupations (plant and machine operators), and 13% are professionals, of which only 16.6% are managers, technicians and clerks.

The average income per household is R2 286.61 per month and 21.9 % of the households reported to have no income. The relatively low income levels are an indication of high poverty



level and result in an increased dependency on social aid e.g. housing subsidies and child grants.

Recent analysis has indicated that the unemployment rate has increased. The comparison of 1998 – 2001 and 2001 – 2004 rates show that mining, manufacturing and finance have been growing, with agriculture declining. However, the employment opportunities loss rate is stabilising.

### **Social infrastructure**

Delmas is an important agricultural centre in the western part of Mpumalanga. The main economic activity in the area is agriculture, consisting of poultry, sheep, cattle and dairy farming, as well as the production of crops such as vegetables, maize, sunflower, sorghum and potatoes.

The processing of these agricultural products is also an important local economic stimulator with the AFGRI Poultry processing facilities being some of the biggest economic and job creation contributors in the Agri-industrial sector for the town.





## **3. LEGISLATION AND GUIDELINES APPLICABLE**

### **3.1 Laws of general application**

- Constitution of the RSA, 1996 (Act No. 108 of 1996)
- National Environmental Management Act, 1998 (Act No. 107 of 1998)
- Environment Conservation Act, 1989 (Act No. 73 of 1989 as amended)
- Promotion of Access to Information Act, 2000 (Act No. 2 of 2000 as amended)

### **3.2 Atmospheric emissions**

- National Environmental Management: Air Quality Act (Act No. 39 of 2004)
- Environment Conservation Act, 1989 (Act No. 73 of 1989) – Noise Control Regulations in terms of Section 25 of the Environment Conservation Act, 1989

### **3.3 Water Management**

- National Water Act, 1998 (Act No. 36 of 1998)

### **3.4 Waste management**

- National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008)

### **3.5 Planning of new activities**

- National Environmental Management Act, 1998 (Act No. 107 of 1998)

### **3.6 Biodiversity**

- National Environmental Management Biodiversity Act, 2004 (Act No 10 of 2004)
- Conservation of Agricultural Resources Act, 1983 (Act No 43 of 1983)
- National Veld and Forest Fire Act, 1998 (Act No 101 of 1998)
- Agricultural Pest Act, 1983 (Act No 36 of 1983 as amended) – GN R276 of 5 March 2004
- National Fencing Act, 1963 (Act No 31 of 1963 as amended)
- National Forest and Fire Laws Amendment Act (Act No 12 of 2001)

### **3.7 Land and Soil Management**

- National Environmental Management Act, 1998 (Act No. 107 of 1998)



- Environmental Conservation Act, 1989 (Act No. 73 of 1989)

### **3.8 Heritage resources**

- National Heritage Resources Act No 25 of 1999 (Act No. 25 of 1999, as amended)

### **3.9 Protected areas**

- National Environmental Management: Protected Areas Act, 2003 (Act No 57 of 2003 as amended)

During the course of the development, the developer and contractors must comply with all other relevant legislation (including the bylaws of the Local Municipality).



## 4. DESCRIPTION OF POTENTIAL ENVIRONMENTAL IMPACTS

A number of potential impacts were identified within the Scoping study. These impacts are listed below for the construction and operational phases of the proposed project.

### 4.1. Construction Phase

- Potential loss of degraded vegetation during site clearance.
- Construction of a wastewater treatment works in close proximity to a natural watercourse.
- Potential harm to the environment due to workers or contractors being unaware of how their activities may impact the environment or due to unauthorised access to the site.
- Potential disturbance of natural vegetation on No-Go Areas.
- Potential destruction and/or disturbance of natural vegetation surrounding the site during site clearance.
- Potential destruction of natural habitat for indigenous fauna as a result of the destruction of natural vegetation surrounding the site.
- Destruction of a natural carbon dioxide sink as a result of the destruction of natural vegetation surrounding the site.
- Generation of dust by earth moving vehicles and other construction activities, during clearance of site and construction of the wastewater treatment works.
- Risk of a fire outbreak from stockpiled vegetation during site clearance.
- Potential disturbance of natural vegetation surrounding the site as a result of runaway veld fires caused by workers or contractors.
- Areas cleared of vegetation have an increased likelihood of experiencing soil erosion.
- Loss of fertility of valuable topsoil, as a result of improper topsoil stock piling.
- Increased likelihood of topsoil erosion as a result of improper stock piling.
- Soil, surface water and ground water pollution due to contaminated wash water runoff.
- Soil, surface water and ground water pollution due to incorrect handling, storage and disposal of hazardous chemical.
- Soil, surface water and ground water pollution due to incorrect handling, storage and disposal of hazardous waste.
- Soil, surface water and ground water pollution due to incorrect handling, storage and disposal of general waste.
- Soil, surface water and ground water pollution due to unsanitary conditions on site.
- Wastage and depletion of valuable resources such as water and electricity as a result of poor management and redundant use.



- Potential wear of access roads, accidents on access roads, unpermitted transport of materials and loss of materials being transported on the access roads.
- Potential disturbance or nuisance to neighbors as a result of the increase in ambient noise from construction vehicles and machinery.

## 4.2 Operational Phase

- Proximity of the wastewater treatment works to a natural watercourse.
- Incorrect storm water management could result in soil and surface water contamination.
- Incorrect storm water- and erosion management could cause siltation of the watercourse.
- Potential soil-, surface water- and ground water pollution due to leaking wastewater pipelines.
- Potential soil-, surface water- and ground water pollution due to incorrect handling, storage and disposal of hazardous chemicals.
- Potential soil-, surface water- and ground water pollution due to incorrect handling, storage and disposal of hazardous waste.
- Potential soil-, surface water- and ground water pollution due to incorrect handling, storage and disposal of general waste.
- Potential soil-, surface water- and ground water pollution due to unsanitary conditions on site.
- Potential nuisance conditions such as flies or mosquitoes, vermin or odour.
- Potential wastage and depletion of natural resources such as water and electricity as a result of poor management and excessive use.
- Potential noise pollution, nuisance to neighbors or disturbance of feeding or breeding animals due to pumps, aerators and other mechanical components.

## 4.3 Specialist Studies

The following key specialist studies have been identified as part of the EIA:

- Geotechnical investigation.
- Biotechnical design of the wastewater treatment works.
- Ecological habitat survey.
- Sustainable borehole yield tests.



## 5. PUBLIC PARTICIPATION PROCESS

### 5.1 Introduction

A Public Participation Process (PPP) is a requirement in terms of the 2010 EIA Regulations of the National Environmental Management Act, 1998 (Act No. 107 of 1998) and it forms an integral part of any EIA process.

This section provides information pertaining to the PPP that was conducted by Shangoni Management Services during this particular assessment.

The purpose of this process is to gather information from the community and relevant Stakeholders that could ultimately affect the decision-making process concerning the planning, construction and operational phases of the proposed AFGRI Poultry Delmas wastewater treatment works project. The community and public have been identified as I&APs and have been given the opportunity to participate in this process. Their comments, whether positive or negative, will influence the decision of the Authorities and the developer's final actions.

### 5.2 Objectives of the PPP

The PPP has the following objectives:

- To inform I&APs as well as all stakeholders of the proposed development;
- To provide an opportunity for I&APs and stakeholders to raise environmental issues or concerns and make suggestions;
- To promote transparency and an understanding of the project and its consequences; and
- To serve as a structure for liaison and communication with I&APs and stakeholders.

To summarise, the objective of the on-going PPP is to promote openness and transparency concerning the proposed wastewater treatment works for the duration of the project. The process should by no means be regarded as a vehicle to temper opposition or objections. Any conclusions agreed upon must be socially, financially and technically acceptable and feasible in order to meet the requirements of the National Environmental Management Act (NEMA), 1998 (Act No. 107 of 1998), and the vision of AFGRI Poultry.



### 5.3 The Guidelines Followed for the PPP

The PPP for this project was conducted by Shangoni Management Services and undertaken strictly according to the guidelines in terms of the National Environmental Management Act (NEMA), No. 107 of 1998, Chapter 6:

### 5.4 Public Participation Process

54. (1) This regulation only applies in instances where adherence to the provisions of this regulation is specifically required.

- (2) The person conducting a public participation process must take into account any guidelines applicable to public participation as contemplated in section 24J of the Act and must give notice to all potential interested and affected parties of the application which is subjected to public participation by-
- (a) fixing a notice board at a place conspicuous to the public at the boundary or on the fence of -
- (i) the site where the activity to which the application relates is or is to be undertaken; and
  - (ii) any alternative site mentioned in the application;
- (b) giving written notice to -
- (i) the owner or person in control of that land if the applicant is not the owner or person in control of the land;
  - (ii) the occupiers of the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken;
  - (iii) owners and occupiers of land adjacent to the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken;
  - (iv) the municipal councillor of the ward in which the site or alternative site is situated and any organisation of ratepayers that represent the community in the area;
  - (v) the municipality which has jurisdiction in the area;
  - (vi) any organ of state having jurisdiction in respect of any aspect of the activity; and
  - (vii) any other party as required by the competent authority;
- (c) placing an advertisement in –
- (i) one local newspaper; or
  - (ii) any official *Gazette* that is published specifically for the purpose of providing public notice of applications or other submissions made in terms of these Regulations;



- (d) placing an advertisement in at least one provincial newspaper or national newspaper, if the activity has or may have an impact that extends beyond the boundaries of the metropolitan or local municipality in which it is or will be undertaken: Provided that this paragraph need not be complied with if an advertisement has been placed in an official *Gazette* referred to in sub regulation (c)(ii); and
  - (e) using reasonable alternative methods, as agreed to by the competent authority, in those instances where a person is desiring of but unable to participate in the process due to
    - (i) illiteracy;
    - (ii) disability;
    - (iii) or any other disadvantage.
- (3) A notice, notice board or advertisement referred to in sub regulation (2) must
- (a) give details of the application which is subjected to public participation; and
  - (b) state-
    - (i) that the application has been submitted to the competent authority in terms of these Regulations, as the case may be;
    - (ii) whether basic assessment or scoping procedures are being applied to the application, in the case of an application for environmental authorisation;
    - (iii) the nature and location of the activity to which the application relates;
    - (iv) where further information on the application or activity can be obtained; and
    - (vi) the manner in which and the person to whom representations in respect of the application may be made.
- (4) A notice board referred to in sub regulation (2) must-
- (a) be of a size at least 60cm by 42cm; and
  - (b) display the required information in lettering and in a format as may be determined by the competent authority.
- (5) Where deviation from sub regulation (2) may be appropriate, the person conducting the public participation process may deviate from the requirements of that sub regulation to the extent and in the manner as may be agreed to by the competent authority.
- (6) Where a basic assessment report, scoping report or environmental impact assessment report as contemplated in regulations 22, 28 and 31 respectively is amended because it has been rejected or because of a request for additional information by the competent authority, and such amended report contains new information, the amended basic assessment report, scoping report or environmental impact assessment report must be subjected to the processes contemplated in regulations 21, 27 and 31, as the case may be, on the understanding that the application form need not be resubmitted.



- (7) When complying with this regulation, the person conducting, the public participation process must ensure that-
- (a) information containing all relevant facts in respect of the application is made available to potential interested and affected parties; and
  - (b) participation by potential interested and affected parties is facilitated in such a manner that all potential interested and affected parties are provided with a reasonable opportunity to comment on the application.
- (8) Unless justified by exceptional circumstances, as agreed to by the competent authority, the applicant and EAP managing the environmental assessment process must refrain from conducting any public participation process during the period of 15 December to 2 January.

#### Register of interested and affected parties

- 55.(1) An EAP managing an application must open and maintain a register which contains the names, contact details and addresses of -
- (a) all persons who, as a consequence of the public participation process conducted in respect of that application in terms of regulation 54, have submitted written comments or attended meetings with the applicant or EAP;
  - (b) all persons who, after completion of the public participation process referred to in paragraph (a), have requested the applicant or the EAP managing the application, in writing, for their names to be placed on the register; and
  - (c) all organs of state which have jurisdiction in respect of the *activity* to which the application relates.
- (2) An EAP managing an application must give access to the register to any person who submits a request for access to the register in writing.

#### Registered interested and affected parties entitled to comment on submissions

- 56.(1) A registered interested and affected party is entitled to comment, in writing, on all written submissions, including draft reports 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 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.





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- (2) Before the EAP managing an application for environmental authorisation submits a final report compiled in terms of these Regulations to the competent authority, the EAP must give registered interested and affected parties access to, and an opportunity to comment on the report in writing.
  - (3) The report referred to in sub regulation (2) include-
    - (a) basic assessment reports;
    - (b) basic assessment reports amended and resubmitted in terms of regulation 24 (4);
    - (c) scoping reports;
    - (d) scoping reports amended and resubmitted in terms of regulation 30(3);
    - (e) specialist reports and reports on specialised processes compiled in terms of regulation 32;
    - (f) environmental impact assessment reports submitted in terms of regulation 31;
    - (g) environmental impact assessment reports amended and resubmitted in terms of regulation 34(4); and
    - (h) draft environmental management programmes compiled in terms of regulation 33.
  - (4) The draft versions of reports referred to in sub regulation (3) must be submitted to the competent authority prior to awarding registered interested and affected parties an opportunity to comment.
  - (5) Registered interested and affected parties must submit comments on draft reports contemplated in sub regulation (4) to the EAP, who should record it in accordance with regulations 21, 28 or 31.
  - (6) Registered interested and affected parties must submit comments on final reports contemplated in sub regulation (3) to the competent authority and provide a copy of such comments to the applicant or EAP.
  - (7) The competent authority must, in order to give effect to section 24O of the Act, on receipt of the draft reports contemplated in sub regulation (5), request any State department that administers a law relating to a matter affecting the environment to comment within 40 days.
  - (8) The timeframe of 40 days as contemplated in sub regulation (7) must be read as 60 days in the case of waste management activities as contemplated in the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008), on which the Department of Water Affairs must concur and issue a record of decision in terms of section 49(2) of the National Environmental Management: Waste Management Act, 2008 (Act No. 59 of 2008).



(9)(a) When a State department is requested by the competent authority to comment, such State department must, within 40 days or in the case of Department of Water Affairs, 60 days for waste management activities, of being requested to comment by the competent authority, provide comments to the competent authority.

(b) If a State department fails to submit comments within 40, or 60 days for waste management activities, from the date on which the Minister, MEC, Minister of Mineral Resources or identified competent authority requests such State department in writing to submit comment, it will be regarded that there are no comments.

Comments of interested and affected parties to be recorded in reports submitted to competent authority

57. (1) The EAP managing an application for environmental authorisation must ensure that the comments of interested and affected parties are recorded in reports and that such written comments, including records of meetings, are attached to the report, submitted to the competent authority in terms of these Regulations.

(2) Where a person is desiring but unable to access written comments as contemplated in sub regulation (1) due to-

- (i) a lack of skills to read or write;
- (ii) disability; or
- (iii) any other disadvantage,

reasonable alternative methods of recording comments must be provided for.

## 5.5 Public Participation Process Followed

The following PPP was conducted for the proposed AFGRI Poultry Delmas wastewater treatment works project:

- Identification of key Interested and Affected Parties (all adjacent landowners);
- Identification of key Stakeholders;
- Informing the key Stakeholders of the process by means of correspondence;
- Placement of a press notice in the Beeld and Streeknuus newspapers, informing the public of the process;
- Placement of site notices at the site; and
- Correspondence with I&APs and Stakeholders and the addressing of their comments.



### **5.5.1 Identification & Registration of I&APs on a Database**

Through networking and advertising, I&APs were registered on a database. Shangoni ensured that individuals or organisations from an institutional as well as a geographical point of view were identified.

Geographically, Shangoni focused on nearby or adjacent landowners, communities and structures that represent them. Institutionally, the focus was on those organisations or individuals that may influence policies and decisions or make a contribution to the project. Not all of these organisations were necessarily in the direct project sphere of impact.

### **5.5.2 Notification of key stakeholders and I&APs**

Stakeholders are all the relevant Authorities and land owners that may possibly be affected by the proposed wastewater treatment works project. The following stakeholders were identified (Table 13):



Table 13: Stakeholders identified during the PPP.

Name	Organisation/Farm	Postal Address	Contact details
Ms. Nelisiwe Sithole	Department of Agriculture, Rural Development and Land Administration	Private Bag X11219 Nelspruit 1200	Tel: 013 766 6067/6068 Email: sitholenl@mpg.gov.za
Mr. David Mahlobo	Department of Co-operative Governance and Traditional Affairs	Private Bag X11304 Nelspruit 1200	Tel: 013 766 6087/6675 Cell: 082 338 9881 Fax: 013 766 8441/2 Email: ILSetlogelo@mpg.gov.za
Mr. Isaiah Khoza / Mr. ST Sibuyi	Department of Safety, Security and Liaison	Private Bag X11269 Nelspruit 1200	Tel: 013 766 4062 Fax: 013 766 4615 Email: ANMahlalela@mpg.gov.za / phiwe@mpg.gov.za
Ms. Sindi Mjwara / Ms. Sibongile Nkosi	Department of Culture, Sport and Recreation	PO Box 1243 Nelspruit 1200	Tel: 013 766 5242 Fax: 013 766 5591/8253 Email: nkosist@mpg.gov.za
Ms. Mahlasedi Mhlabane	Department of Education	Private Bag X11341 Nelspruit 1200	Tel: 0800 203 116 Email: L.brits@education.mpu.gov.za / p.moosa@education.mpu.gov.za
Mr. J. Mbatha	Department of Finance	Private Bag X11205 Nelspruit 1200	Tel: 013 766 4229 Cell: 082 331 4533 Fax: 013 766 9424 Email: jbmbatha@mpg.gov.za / echego@mpg.gov.za
Dr. Johnson Jerry Mahlangu / Mr. M.R Mnisi	Department of Health and Social Development	Private Bag X11285 Nelspruit 1200	Tel: 013 766 3429/30/28 Fax: 013 766 3458 Email: pauleckm@social.mpu.gov.za /



			florencekh@social.mpu.gov.za
Mr. David Dube	Department of Human Settlements	Private Bag X11328 Nelspruit 1200	Tel: 013 766 6233 Fax: 013 766 8430 Email: apohl@mpg.gov.za
Mr. Kgopana Mathew Mohlasedi	Department of Public Works, Roads and Transport	Private Bag X11310 Nelspruit 1200	Tel: 013 766 6978/9 Fax: 013 766 8471/67 Email: kmohlasedi@mpg.gov.za
Mr. M. Mahunonyane / Mr. Guma	Department of Water Affairs, Mpumalanga Regional Office	Private Bag X11259 Nelspruit 1200	Tel: (013) 759 7310 Fax: (013) 759 7525 Email: guma@dwa.gov.za
Ms. Madi Moloto	Department of Water Affairs	Private Bag X10580 Bronkhorstspuit 1020	Tel: 013 932 2061/ Cell: 082 887 4332 Email: molotom@dwa.gov.za Fax: 013 932 2071
Ms. Mgozeli Sinazo / Dumisane G. Hlongwane	Department of Water Affairs	Private Bag X10580 Bronkhorstspuit 1020	Tel: 013 932 2061 Email: hlongwaned@dwa.gov.za Fax: 013 932 2071
Ms. Yolanda Segami	Victor Khanye Local Municipality	PO Box 6 Delmas Mpumalanga 2210	Tel: 013 665 6000 Fax: 013 665 6041 Email: envirohealth@delmasmunic.co.za
Mr. Sam Lekhuleni	Victor Khanye Local Municipality	PO Box 6 Delmas Mpumalanga 2210	Tel: 013 665 6065 Cell: 072 834 3069 Fax: 013 665 6041 Email: envirohealth@delmasmunic.co.za
Mr. Xolisile Ngxowa	Victor Khanye Local Municipality	PO Box 6 Delmas Mpumalanga 2210	Tel: 013 665 6065 Cell: 073 276 1946



			Fax: 013 665 6041 Email: xolisilengxowa@webmail.co.za
Cllr. Siphon Solomon Nkabinde	Victor Khanye Local Municipality- Ward 9	PO Box 6 Delmas Mpumalanga 2210	
Mr. Phillip Hine	South African Heritage Resources Agency (SAHRA)	PO Box 4637 Cape Town 8000	Tel:021 462 4502 Fax: 021 462 4509 Email: phine@sahra.org.za
Mr. Tendo Ramagoma	National Heritage Council (NHC)	PO Box 74097 Lynnwood Ridge 0040	Tel:013 932 2061 Fax:086 212 1220 Email:P.Ramagoma@nhc.org.za
Mr T.C. Makola	Nkangala District Municipality	PO Box 437 Middelburg 1050	Tel: 013 249 2000
Mr. A.G. Rayfield – Rayfield Investments Property Holdings CC	Adjacent Land Owner - Portion 5 (remaining extent) of the farm Geluk 234 IR	PO Box 46160 Orange Grove 2119	
Mr. C.C. Rossouw	Adjacent Land Owner - Portion 1 (remaining extent) and 0 (remaining extent) of the farm Geluk 234 IR	PO Box 2444 Delmas 2210	
Mr. C.L.E.C. Rossouw	Adjacent Land Owner – Portion 1 (remaining extent) and 0 (remaining extent) of the farm Geluk 234 IR	PO Box 828 Delmas 2210	Tel: 013 665 1999 Cell: 082 990 2377
Mr. D. A. Rayfield – Rayfield Investments	Adjacent Land Owner – Portion 5 (remaining extent) of the farm Geluk	PO Box 46160 Orange Grove	Tel: 016 665 4650 Fax: 011 965 0140



Property Holdings CC	234 IR	2119	
Mr. P.P. Mare	Adjacent Land Owner – Portion 18 of the farm Leeuwpoot 205 IR	PO Box 17 Delmas 2210	
Mr. W. Holl	Adjacent Land Owner – Portion 4 (remaining extent) of the farm Leeuwpoot 205 IR	PO Box 205 Delmas 2210	
Director: Geluk 234 Eiendomme (Pty) Ltd.	Adjacent Land Owner - Portion 1 (remaining extent) and 0 (remaining extent) of the farm Geluk 234 IR	PO Box 259 Delmas 2210	



Shangoni sent registered letters to the Departments, Organs of State and adjacent land owners containing a background information document (BID), map showing the location of the site, and a stakeholder registration form. Figure 53 and Figure 54 provides an example of the letters sent out to Departments, Organs of State and potential I&APs. Figure 55, Figure 56 and Figure 57 provide proof that notification letters were sent to Departments, Organs of state and potential I&APs.

The table below provides a list of the I&APs who registered and were added to the database of I&APs during the PPP.

*Table 14: Registered I&APs.*

Name	Farm/Association	Postal Address	Contact details
Cllr. Siphon Solomon Nkabinde	Victor Khanye Local Municipality	PO Box 6 Delmas 2210	
Mr. Xolisile Elias Nkosi	Victor Khanye Local	PO Box 2275 Delmas 2210	Tel: 013 665 6060 Fax: 013 665 6060 Email: xolisilengxowa@webmail.co.za
Mrs M.O.C. Mhlabane	Mpumalanga Department of Education	Private Bag X11341 Nelspruit 1200	Tel: 013 766 5120 Fax: 013 766 5577
Ms. Sinazo Mgozeli	Department of Water Affairs	Private Bag X11259 Nelspruit 1200	Tel: 013 932 2061 Fax: 013 932 2071 Email: mgozelis@dwa.gov.za
Ms. B.P. Mojapelo	Mpumalanga Department of Public Works, Roads and Transport	Private Bag X11302 Nelspruit 1200	Tel: 013 766 6745 Fax: 013 766 6745 Email: pmojapelo@mpg.gov.za
Mr. Deryck A. Rayfield	Adjacent Land Owner	PO Box 247 Delmas 2210	Tel: 013 665 4650 Email: deryck54@gmail.com
Mrs. C. Swart	Mpumalanga Department of Health	Private Bag X11285 Nelspruit 1200	Tel: 013 766 3404 Fax: 086 655 0871/013 766 3474





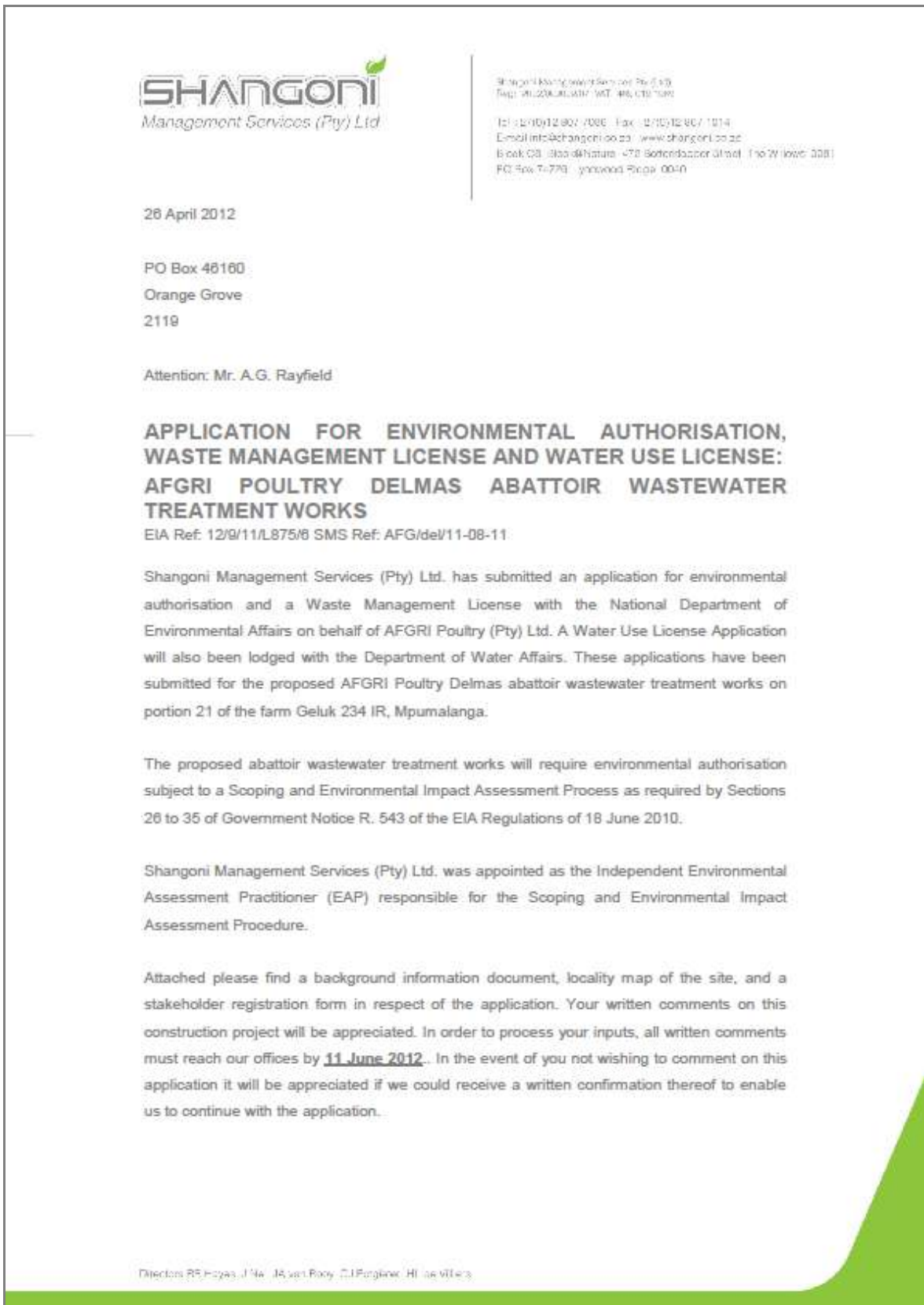


Figure 53: Example of letter to adjacent land owner (pg 1).






Figure 54: Example of letter to adjacent land owner (pg 2).



## List of REGISTERED LETTERS Lys van GEREГИSTREERDE BRIEWE

(with an insurance option/met 'n versekeringsopsie)  
Full tracking and tracing/Volledige volg en spoor



**Post Office**

Name and address of sender: Shangoni Management Services - Lizette Croth  
 Naam en adres van afsender: P.O. Box 74726 Lynnwood Ridge 0040

Enquiries/Navrae: **0800 111 502**  
 Toll-free number  
 Toivry nommer

No	Name and address of addressee Naam en adres van geadresseerde	Insured amount Versekerde bedrag	Insurance fee Versekeringsgeld	Postage Posgeld	Service fee Diensgeld	Affix Track and Trace customer copy Plak Volg-en-Spoor-kliëntafskrif
1	P.O. Box 259 Delmas, 2210 Director Geluk 234 Fiendomme (Pty) Ltd P.O. Box 205 Delmas, 2210 Mr. W. Holl					REGISTERED LETTER (with a domestic insurance option) Afskrif 0800 111 502 www.epost.co.za RD 684 750 285 ZA CUSTOMER COPY 301020R
3	P.O. Box 17 Delmas, 2210 Mr. P.P. Mare					REGISTERED LETTER (with a domestic insurance option) Afskrif 0800 111 502 www.epost.co.za RD 684 750 299 ZA CUSTOMER COPY 301020R
4	P.O. Box 2444, Delmas, 2210 Mr. C.C. Rossouw					REGISTERED LETTER (with a domestic insurance option) Afskrif 0800 111 502 www.epost.co.za RD 684 750 308 ZA CUSTOMER COPY 301020R
5	P.O. Box 828 Delmas 2210 Attention Mr. C. L. C. ROSSOUW Department of Water Affairs Private Bag X 10530, Bronkhorstspuit					REGISTERED LETTER (with a domestic insurance option) Afskrif 0800 111 502 www.epost.co.za RD 684 750 311 ZA CUSTOMER COPY 301020R
6	1020. Mgolozeli Sinazo Victor Khanye local Municipality					REGISTERED LETTER (with a domestic insurance option) Afskrif 0800 111 502 www.epost.co.za RD 684 750 271 ZA CUSTOMER COPY 301020R
7	P.O. Box 6, Delmas 2210. Ms. Yolanda Segami Nkangala District Municipality					REGISTERED LETTER (with a domestic insurance option) Afskrif 0800 111 502 www.epost.co.za RD 684 750 245 ZA CUSTOMER COPY 301020R
8	P.O. Box 437 Middelburg 1050 Mr. T.C. Makola National Heritage Council (NHC)					REGISTERED LETTER (with a domestic insurance option) Afskrif 0800 111 502 www.epost.co.za RD 684 750 149 ZA CUSTOMER COPY 301020R
9	P.O. Box 74097, Lynnwood Ridge Pretoria, 0040. Mr Tendo Ramagoma South African Heritage Resources Agency					REGISTERED LETTER (with a domestic insurance option) Afskrif 0800 111 502 www.epost.co.za RD 684 750 183 ZA CUSTOMER COPY 301020R
10	P.O. Box 4637, Cape Town 8000 Mr. Phillip Hinc					CUSTOMER COPY 301020R
		Total	R	R	R	R


Number of letters posted: 10  
 Getal briewe gepos

Signature of client: [Signature]  
 Handtekening van klient

Signature of accepting officer: [Signature]  
 Handtekening van aanneembeampte

The value of the contents of these letters is as indicated and compensation is not payable for a letter received unconditionally. Compensation is limited to R100,00. No compensation is payable without documentary proof. Optional insurance of up to R200,00 is available and applies to domestic registered letters only.

Die waarde van die inhoud van hierdie briewe is soos aangedui en vergoeding sal nie betaal word vir 'n brief wat sonder voorbehoud ontvang word nie. Vergoeding is beperk tot R100,00. Geen vergoeding is sonder dokumentêre bewys betaalbaar nie. Opsionele versekering van tot R2 000,00 is beskikbaar en is slegs op binnelandse geregistreerde briewe van toepassing.

Date stamp  
  
 Datumstempel

MASCHAM PRINTERS

T01248

Figure 55: Proof of registered letters sent (pg 1).

**List of REGISTERED LETTERS**  
**Lys van GEREGISTREERDE BRIEWE**  
*(with an insurance option/met 'n versekeringsopsie)*  
**Full tracking and tracing/Volledige volg en spoor**



Name and address of sender: Shangoni Management  
 Naam en adres van afsender: Lizette Crous  
P.O. Box 74726 Lynnwood Ridge 0040

Enquiries/Navrae  
 Toll-free number  
 Tolvry nommer  
**0800 111 502**

No	Name and address of addressee Naam en adres van geadresseerde	Insured amount Versekerde bedrag	Insurance fee Versekeringsgeld	Postage Postgeld	Service fee Diensgeel	Affix Track and Trace customer copy Plak Volg-en-Spoor-kliëntafskrif	
1	PO BOX 46160 ORANGE GROVE 2119 Mr. A.G. RAYFIELD DEP. OF EDUCATION Private bag X11341 Nelspruit 1200 Ms. Mahlasedi Mhlabane					REGISTERED LETTER with a domestic insurance option 0800 111 502 www.spc.co.za RD 684 750 268 ZA CUSTOMER COPY 301020R	
2	DEP. OF WATER AFFAIRS Private Bag X105080 Bronkhorstspruit 1020 Medi Melato					REGISTERED LETTER with a domestic insurance option 0800 111 502 www.spc.co.za RD 684 750 121 ZA CUSTOMER COPY 301020R	
3	PO BOX 46160 ORANGE GROVE 2119 Mr. D.A. Rayfield Dep. of Co-operative Governance and Traditional Affairs Private Bag X11304 Nelspruit 1200 Mr. David Mahlabe					REGISTERED LETTER with a domestic insurance option 0800 111 502 www.spc.co.za RD 684 750 339 ZA CUSTOMER COPY 301020R	
4	DEP. OF HEALTH AND SOCIAL DEVELOPMENT Private Bag X11285 Nelspruit 1200 Dr. Johnson Jerry Mahlangu					REGISTERED LETTER with a domestic insurance option 0800 111 502 www.spc.co.za RD 684 750 210 ZA CUSTOMER COPY 301020R	
5	DEPT OF PUBLIC WORKS, ROADS AND TRANSPORT Private bag X1130 Nelspruit 1200 Mr. Kgopana Mathew Mhlaseeli					REGISTERED LETTER with a domestic insurance option 0800 111 502 www.spc.co.za RD 684 750 197 ZA CUSTOMER COPY 301020R	
6	DEPT OF CULTURE SPORT AND RECREATION PO BOX 1243 Nelspruit 1200 Ms. Sindi Mjwara					REGISTERED LETTER with a domestic insurance option 0800 111 502 www.spc.co.za RD 684 750 135 ZA CUSTOMER COPY 301020R	
7	DEPT OF HUMAN SETTLEMENTS Private bag X11325 Nelspruit 1200 David Dube					REGISTERED LETTER with a domestic insurance option 0800 111 502 www.spc.co.za RD 684 750 233 ZA CUSTOMER COPY 301020R	
8	DEPT OF AGRICULTURE, RURAL DEVELOPMENT AND LAND AFFAIRS Private Bag X11219 Nelspruit 1200					REGISTERED LETTER with a domestic insurance option 0800 111 502 www.spc.co.za RD 684 750 152 ZA CUSTOMER COPY 301020R	
Number of letters posted Getal briewe gepos		10	Total Totaal	R	R	R	R

Signature of client  
 Handtekening van klient [Signature]

Signature of accepting officer  
 Handtekening van aanneembeampte [Signature]



The value of the contents of these letters is as indicated and compensation is not payable for a letter received unconditionally. Compensation is limited to R100,00. No compensation is payable without documentary proof. Optional insurance of up to R200,00 is available and applies to domestic registered letters only.

Die waarde van die inhoud van hierdie briewe is soos aangedui en vergoeding sal nie betaal word vir 'n brief wat sonder voorbehoud ontvang word nie. Vergoeding is beperk tot R100,00. Geen vergoeding is sonder dokumentêre bewys betaalbaar nie. Opsionele versekering van tot R2 000,00 is beskikbaar en is slegs op binnelandse geregistreerde briewe van toepassing.


Figure 56: Proof of registered letters sent (pg 2).

## List of REGISTERED LETTERS

### Lys van GEREGISTREERDE BRIEWE

*(with an insurance option/met 'n versekeringsopsie)*

Full tracking and tracing/Volledige volg en spoor




**Post Office**


Name and address of sender:  
 Naam en adres van afsender: Shangoni Management Services  
P.O. Box 74726 Lynnwood Ridge 0040  
Lizette Crous

Enquiries/Navrae  
 Toll-free number  
 Tolvry nommer  
**0800 111 502**

No	Name and address of addressee Naam en adres van geadresseerde	Insured amount Versekerde bedrag	Insurance fee Versekeringsgeld	Postage Posgeld	Service fee Diensgeld	Affix Track and Trace customer copy Plak Volg-en-Spoor-klantafskrif
1	Department of Water Affairs Mpumalanga Regional Office Private Bag X11259 Nelspruit 1200	Mr. F. Mtambo				REGISTERED LETTER (with a domestic insurance option) 0800 111 502 www.post.co.za RD 684 751 025 ZA CUSTOMER COPY 30102R
	Victor Khanye Local Municipality P.O. Box 6 Delmas 2210 Mr. Sam Lekhuleni					REGISTERED LETTER (with a domestic insurance option) 0800 111 502 www.post.co.za RD 684 750 170 ZA CUSTOMER COPY 30102R
3	Department of Finance, Private Bag X11205 Nelspruit 1200	Mr. J. Mbatha				REGISTERED LETTER (with a domestic insurance option) 0800 111 502 www.post.co.za RD 684 750 118 ZA CUSTOMER COPY 30102R
4	Victor Khanye Local Municipality (Delmas) Ward 9, P.O. Box 6 Delmas, Mpumalanga, 2210	Cl. Sipho Solomon Nkabinde				REGISTERED LETTER (with a domestic insurance option) 0800 111 502 www.post.co.za RD 684 751 642 ZA CUSTOMER COPY 30102R
5	Department of Safety, Security and Liaison Private Bag X11269, Nelspruit, 1200	Mr. Isqiah Khoza				REGISTERED LETTER (with a domestic insurance option) 0800 111 502 www.post.co.za RD 684 750 206 ZA CUSTOMER COPY 30102R
6						
7						
8						
9						
10						
		Total Totaal	R	R	R	R

Number of letters posted  
Getal briewe gepos: 5

Signature of client  
Handtekening van klient: 

Signature of accepting officer  
Handtekening van aanneembeampte: 

The value of the contents of these letters is as indicated and compensation is not payable for a letter received unconditionally. Compensation is limited to R100,00. No compensation is payable without documentary proof. Optional insurance of up to R200,00 is available and applies to domestic registered letters only.

Die waarde van die inhoud van hierdie briewe is soos aangedui en vergoeding sal nie betaal word vir 'n brief wat sonder voorbehoud ontvang word nie. Vergoeding is beperk tot R100,00. Geen vergoeding is sonder dokumentêre bewys betaalbaar nie. Opsionele versekering van tot R200,00 is beskikbaar en is slegs op binnelandse geregistreerde briewe van toepassing.

MASHAMBE PRINTERS

701248


Date stamp  

 Datumstempel

Figure 57: Proof of registered letters sent (pg 3).

### 5.5.3 Comments and Response Report

Comments and concerns received from I&APs were incorporated into a Comments and Responses Report, which is given below in Table 15 and Appendix E.

Table 15: Comments and response report.

Raised by	Date	Issue / comment / concern	Response
Mrs M.O.C. Mhlabane – Mpumalanga Department of Education	29-05-2012	An application from Shangoni Management Services (Pty) Ltd dated 26 April 2012 is hereby acknowledged and referred to.  The Department has no objection regarding the proposed AFGRI Poultry Delmas wastewater treatment works on Portion 21 of the Farm Geluk 234 IR as it an extension of an existing business venture.  It is hope that you find this in order.	Comments noted.
Department of Public Works, Roads and Transport Ms. B.P. Mojapelo	25-05-2012	Your application dated 23 April 2012 refers. Your application regarding the environmental authorisation and waste management license has been noted.  The Department has no objection of the development, but you are requested to ensure that your property is properly fenced.	Comments noted.
Sipho Solomon Nkabinde - Cllr. Ward 9 Victor Khanye Local Municipality	05-06-2012	I comment that the plant must operate as long as AFGRI Poultry is aligning with the National Department of Environmental Affairs, also the Department of Water Affairs.	A number of job opportunities will be created during the construction and operational phases of the



		<p>I think the waterwaste treatment can be good if it can decrease the number of unemployment. We're always worried about those who are unemployed.</p> <p>My worry and comment is that those who are unemployed, some get a chance to work for their family.</p>	proposed project.
Department of Water Affairs	12-06-2012	<p>The Department would like to acknowledge receipt of the documents titled Application for Environmental Authorisation, Waste Management License and Water Use License: AFGRI Poultry Delmas Abattoir Wastewater Treatment Works, dated 26 April 2012.</p> <p>Please note that the Department is currently evaluating the document and will communicate with you should more information be required.</p> <p>If more clarity is required with regard to this letter, please contact the Regional Office in the contact details listed above.</p>	Comments noted
Mr. Deryck Arthur Rayfield	26-06-2012	<p>Sorry for the late submission but the documents were sent to our auditors in Johannesburg who forwarded them to us by normal mail and only arrived this week due to postal strike.</p> <p>I have no problem with the wastewater treatment works been set up at the AFGRI Poultry Delmas Abattoir. But as I am situated directly across the road and downwind from the Abattoir and our dwellings are approximately 600meters from the abattoirs boundary. I would like assurance that there will be no pollution of the underground water system, no unpleasant</p>	Your comments have been noted and will be included in the Environmental Impact Assessment Report for this project. Please find below our response to the comments that you have raised:



		<p>odours coming from the abattoir or the wastewater treatment works and no noise pollution from the abattoir or the wastewater treatment works.</p> <p>Please note that all correspondence must please be sent to PO Box 247 Delmas 2210 in future.</p>	<p><b>Pollution of the underground water system</b></p> <p>All treatment ponds and wetland cells will be lined with HDPE liners to prevent the seepage of any abattoir wastewater into the groundwater regime.</p> <p><b>Odours</b></p> <p>The start-up phase is usually prone to severe odour generation during the first 4 months of commissioning. This is due to biological instability commonly observed during this initial phase. The works will, however, be augmented with commercial microbial and enzyme products during this commissioning phase.</p>
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			<p>The products promote natural binding and prevention of odorous compounds (i.e. mercaptan and sulphide odorous gases), resulting in relative odour-free operation.</p> <p>The wastewater treatment works is designed to inhibit the release of odorous compounds. This has been achieved in similar installations due to the aerobic biological nature of the works. The long-term, predominant odour will be an “organic compost odour” notable within a 100 metre radius from the perimeter of the wastewater treatment works. This odour is generally not regarded as objectionable.</p>
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			<p><b>Noise</b></p> <p>Construction of the wastewater treatment works will mainly utilise earthmoving equipment. The equipment will be operated during the six to eight month construction period. It is expected that reasonable noise levels will be emitted by the construction vehicles during this time. Construction will, however, be limited to normal working hours.</p> <p>The long-term operation of the wastewater treatment works will involve small water circulation pumps (less than 5kW each) and submerged underwater aeration equipment (less</p>
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			<p>than 20kW each). The circulation pumps and aeration equipment will produce limited noise levels that will only be audible within a 50-100 metre radius from the wastewater treatment works.</p>
<p>Department of Water Affairs</p>	<p>11-07-2012</p>	<p>This Department acknowledges receipt and the comments are as follows:</p> <ol style="list-style-type: none"> <li>1. Water Uses Applied for:                     <ol style="list-style-type: none"> <li>1.1 Section 21 (a): Ensure that there is enough water from the water resource where the water will be abstracted it from for use at the abattoir;</li> <li>1.2 Section 21(b): Ensure that the reservoir is fully complying with the Department Best Practise Guidelines;</li> <li>1.3 Section 21(c) (i): Ensure that the wetland studies are conducted according to the Department Best Guidelines;</li> <li>1.4 Section 21(f): Ensure that the quality of water that will be discharged to the natural stream are according to the drinking water qualities) and</li> <li>1.5 Section 21 (g): Ensure that the treatment works and dams are constructed according to the Department Best Practise Guidelines.</li> </ol> </li> <li>2. Description of the proposed activity</li> </ol>	<p>Your letter dated 21 June 2012 refers: We hereby acknowledge receipt of your letter and comments. Your comments will be incorporated into the Environmental Impact Assessment Report for this project. Please find our response to your comments below:</p> <p>A water use license application will be submitted to the Department of Water Affairs</p>



		<p>2.1 The maintenance and monitoring of the whole process should be conducted at all time to prevent and incidents.</p> <p>3. Construction, operational, closure and rehabilitation phase impacts and mitigations should be updated quarterly.</p> <p>4. The applicant must report any pollution incident originating from the activity to the Regional Head: Mpumalanga of the Department of Water Affairs within 24 hours.</p> <p>Please Note: The AFGRI Poultry Delmas Abattoir Wastewater Treatment Works Manager/person accountable must at all times adhere to the requirements of the regulations on the use of water for the AFGRI Poultry Delmas Abattoir Wastewater Treatment Works activities and related activities aimed at the protection of water resources.</p> <p>Please contact the Department on the contact details listed above should have further queries.</p>	<p>for the following water uses: Section 21(a), Section 21(b), Section 21(c) &amp; (i), Section 21(f) and Section 21(g).</p> <p>With reference to the Section 21(f) water use: Wastewater generated at the AFGRI Poultry Delmas abattoir will be treated in the proposed wastewater treatment works. The treatment works has been designed to treat the abattoir wastewater to a quality that complies with the Department of Water Affairs’ General Limit standards for discharge into a water resource. The treated water will be re-used at the abattoir as far as possible and any water</p>
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			<p>that cannot be re-used will be discharged into the natural drainage line. The water that will be discharged will therefore comply with the DWA’s General Limit standards for discharge into a water resource. The water will be of a quality that is similar to the drinking water qualities, but certain parameters will exceed the standards stipulated in the drinking water guidelines.</p> <p>Please do not hesitate to contact us should you require any further information.</p>
<p>Mpumalanga Department of Health Mrs. C. Swart</p>	<p>16-07-2012</p>	<p>Your letter re above dated 11 May 2012 refers</p> <p>After consideration the department recommends this application on condition that DWAF and NEMA requirements are adhere to</p>	<p>Your comments have been noted and will be included in the Environmental Impact Assessment Report for the</p>



		For future enquires please communicate with Mrs. C Swart at 013 766 2448	project.
Mpumalanga Department of Education	26-07-2012	<p>A request from your office dated 26 June 2012 is acknowledged and referred to.</p> <p>The Department of Education has no objection towards establishment of the Wastewater Treatment Works in the AFGRI Poultry Delmas Abattoir.</p> <p>It is noted that the intention is to increase the capacity of an existing Wastewater Treatment Works Plant.</p> <p>The extension of an existing activity will not have an impact on the need for school sites.</p> <p>It is hoped that you will find this in order.</p>	Your comments have been noted and will be included in the Environmental Impact Assessment Report for the project.



### **5.5.4 Registering Stakeholders**

All key stakeholders were registered and will receive this draft Environmental Impact Report.

### **5.5.5 Press Notices**

In accordance with the National Environmental Management Act (NEMA) 1998, (Act No. 107 of 1998), a notice was placed in the Beeld and the Streeknuus newspapers, on the 27<sup>th</sup> of April 2012. The press notice is shown below as Figure 58 and Figure 59.

Press notices are crucial to create awareness of the project and to reach a broader range of I&APs.





Figure 58: Proof of the newspaper advertisement in the Beeld.



Streek News 17 April 2012

13

news/nuus

# Eerste Rugby Span Spelling 'n punt van taalgebruik

**CULLINAN** se Eerste Rugby span het hierdie jaar weer eens goed presteer in TTT se Superskakel vir Kleinskole.

Nadat die leere verledes jaar gedeel is met Hoërskool Louis Trichardt het Cullinan se span hierdie jaar oorwinninge oor Alberton High en Kamohang behaal in die poolwedstryde. Ongelukkig het hul vreesval teen Hoërskool Nylstroom wat uiteindelik naggewe is as die

Kampioenspan van 2011.

Op Saterdag 14 April 2012 het Cullinan te staan gekom teen Hoërskool Erasmus om die 3/4 finale. In 'n baie aanmoedigende wedstryd het Cullinan met 20 / 14 gesevier en eindig dus 3<sup>rd</sup> in die 2012 Supers 10-Beeks.

Daar word met verwagting uitgegaan as die liga vir Mediumskole wat nou 'n aanvang neem.

TRR herdenking van Wêreld Boekdag (World Book Day) op 23 April en om lees te bevorder is 'n spesiale projek gekoos deur die City of Tshwane Library Services en die Gauteng Departement van Ouderwys met 36 deelnemende skole.

Die Gekombineerde Skool Cullinan tesame met vier skole in Gauteng Noord-Distrik is geselekteer om aan die kompetisie deel te neem op 11 April (Struik 6).

Elke skool moet vyf Or 10 leerders selekteer met Engels as Eerste Addisionale Taal.

Die volgende leerders is geselekteer en het op 12 April aan

die "Spelling Bee Competition" deelgeneem te Ravenspoort Karrekliewe Dienste (Emthonjeni):

- Carin Greyling
- Jodi-Mari Greyvenstein
- Lachya Heath
- Tahsha Rautenbach
- Makayla Scholtz

Dit was 'n mondellings kompetisie volgens die bepaalde "Spelling Bee" reël. Die vyf dogters het hul onderskeie lang woorde van verkeerde uitspraak van vals woorde. Daar is drie weners geselekteer wat op 24 April 2012 aan die finale te Rayton Biblioteek gaan deelneem.

'n Leerder van Emthonjeni (Ravenspoort Karrekliewe Dienste), 'n leerder van Chaps Tabani en 'n leerder van Jodi-Mari Greyvenstein van die Gekombineerde Skool Cullinan is geselekteer.

Hierdie drie leerders sal teen die weners van die ander ses streke kompeteer om die uiteindelige wenner van die spelkompetisie te bepaal. Die wenner sal onder andere 'n skootrekenaar ter waarde van R7000 ontvang.

Ons is trots op Jodi-Mari Greyvenstein en wens haar sukses toe met die finale kompetisie.



Met hulle rûe teen die oer, draif die span na die veld.



In 'n tyd waar die rekenaar oortem, kan die Oulies spel.

**BASIC ASSESSMENT REPORT AVAILABLE FOR PUBLIC REVIEW**

**Notice of Environmental Impact Assessment Process (Basic Assessment Process)**

Notice is hereby given in terms of the Environmental Management Act (Act No. 107 of 2002) that Eskom passed the assessment of a 120kV power line and new substation within the jurisdiction of Tshwane Municipality for Municipality of the Gauteng Province.

**STEIN ERASMUS-DONAMANI 120KV POWER LINE WITH NEW DONAMANI SUBSTATION**  
(DEA Ref: 12/12/203418)

The potentially affected areas and farm portions where the power line and substation would traverse include Maitsefontein 323 JF, Wierandvoorskop 308 JF, Wierandvoorskop 323 JF.

Notice is hereby given in terms of Regulation 244 promulgated on 18 June 2011 of the Regulations compiled in terms of section 24 (7) read with section 44 of the National Environmental Management Act (Act No. 107 of 2002), that the public hearing process is hereby initiated in terms of the following activities (1.3.1) The submission of notices or objections to the proponent and distribution of notices (1.3.2) and (1.3.3) if not satisfied with the quality of the notice of more than 21 days after the notice of objection (1.3.4) or the completion of a notice of objection (1.3.5) where no objection is filed within the period of 21 days.

**NOTICE OF BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS**

National Environmental Commission, as an empowerment and development institution, has been assigned to undertake the required environmental impact assessment and public participation process for the proposed project in terms of the environmental legislation, interests and affected parties (EIA). It is required to participate in the EIA process by reviewing the Draft Basic Assessment Report available for public review. The review period would be from 27 April 2012 to 6 June 2012. Please submit your comments to National Environmental Commission (NEC) on or before 06 June 2012.

**ENVIRONMENTAL CONSULTANT DETAILS**

**NALEDZI**  
Environmental Consultants

Naledzi Environmental Consultants (Pty) Ltd, Welmoed Bofane  
Suite 4102, Phoenix Library Gardens  
Pretoria, 001, 001, Pretoria  
Tel: 011 246 3686 or Fax: 011 246 4101 or Cell: 084 222 0534  
Email: enaledzi@naledzi.co.za

Please note that a Draft Basic Assessment Report will be available for review at the following venues:

VENUE	DATE	CONTACT
Banankop Holiday Resort Gate Office (Wierandvoorskop 323 JF, along 642 Street) Spreewoods Community Newspaper Dr Roger Steyn Forum Building, Randfontein	27 APRIL 2012 - 6 JUNE 2012	Office number: 071 234 044 (Pretoria) (011) 232 2031
Edison Park Arthur Road, Wilms Land & Rights Division (Environmental Section)	27 APRIL 2012 - 6 JUNE 2012	Maitsefontein (011) 661 5314

**NOTICE OF APPLICATION FOR ENVIRONMENTAL AUTHORIZATION, WASTE MANAGEMENT LICENSE AND WATER USE LICENSE**

Notice is hereby given that an application for environmental authorization in terms of the Environmental Management Act (Act No. 107 of 2002) and the National Environmental Management Act (Act No. 107 of 2002) as amended, is hereby submitted to the National Environmental Management, Waste Act, 2008 (Act No. 92 of 2008), has been lodged with the National Department of Environmental Affairs. Notice is hereby given of a State-owned license application in terms of Section 21 of the National Water Act, 1956 (Act No. 36 of 1956) to be submitted to the Department of Water Affairs.

**Ref Number:** 12/11/2012/000

**Applicant:** SHANGONI (Pty) Ltd

**PROJECT TITLE:** SHANGONI Water Supply System Water Treatment Plant and Sewerage

**Project Location:** Porters 21 of the Farm No. 120 of 191, Maitsefontein. The site is located approximately 4 km to the northwest of De Wet (120 km<sup>2</sup>).

**Project Description:** The proposed project will consist of the following:

- The construction of a wastewater treatment works for the treatment of municipal wastewater.
- The installation of a 4.4 MVA 132kV/220kV of electrical substation for the site to supply electrical supply.
- Approximately 10% of the project area will be utilized to be a quarry, and will be used by the Applicant.

**Submitting person:**

Waste Management (Maitsefontein) Ref No: 2012/01/01/000

- Category 1, No. 1: The construction of a wastewater treatment plant (WWTP) with a capacity of 10 000 m<sup>3</sup> volume of water per day.
- Category 1, No. 2: The construction of a quarry for the extraction of aggregate in the form of a quarry or extraction of aggregate.

**Water Used Applied for:**

- Section 21(a) being taken from a water resource.
- Section 21(b) storage of water.
- Section 21(c) involving or providing the flow of water in a watercourse.
- Section 21(d) engaging in a hydraulic activity, identified as such in Section 21(i), regardless of any other rule made or made containing water generated through hydraulic activity or by a watercourse.
- Section 21(e) discharging water or other substances into a water resource through a pipe, canal, sewer, pipe, ditch or other structure.
- Section 21(f) discharging of water or other substances into any watercourse, reservoir or water resource.
- Section 21(g) being the flow, being stored or discharged into a watercourse.

**Reference to applications:**

Should you wish to be included in the register of interested and affected parties or appointed as the applicant, please contact and submit your application, and forward to the applicant by sending to the above address not later than 06 June 2012.

**Interested and affected parties should contact:**

Waste Management Services (Pty) Ltd  
PO Box 4006, Lynnwood Manor, Pretoria, 0001

Project Person: Muel J. Steyn  
Tel: 011 234 0444, Cell: 071 272 2006, Fax: 011 234 0444, Email: muel@shangoni.co.za  
Email: shangoni@shangoni.co.za, Mr. De Wet Posthumus for the state application, Tel: 011 246 3686 or Fax: 011 246 4101

**SHANGONI**  
Environmental Consultants (Pty) Ltd

Figure 59: Proof of newspaper advertisement in the Streeknuus.

### 5.5.6 Placement of Public Notices

The site notices (A2) were placed on the perimeter fence surrounding the Delmas abattoir (as shown in Figure 60 to Figure 63). Wording for the site notices is given as Figure 64 and Figure 65.



Figure 60: Photograph of first site notice (zoomed in).



Figure 61: Photograph of first site notice.





Figure 62: Photograph of the second site notice.



Figure 63: Photograph of third site notice.



## AFGRI POULTRY (PTY) LTD

### PUBLIC NOTICE OF APPLICATION FOR ENVIRONMENTAL AUTHORISATION, WASTE MANAGEMENT LICENSE AND WATER USE LICENSE

Notice is hereby given that an application for environmental authorisation in terms of the EIA Regulations of 2010 (Regulations in terms of Chapter 5 of the National Environmental Management Act of 1998, as amended) and a Waste Management License Application in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) has been lodged with the National Department of Environmental Affairs. Notice is also given of a Water Use Licence Application in terms of Section 21 of the National Water Act, 1998 (Act No. 36 of 1998) submitted to the Department of Water Affairs.

**Legislation:**

The activity requires an application subject to a full Scoping and Environmental Impact Assessment Process as required by Sections 26 to 35 of Government Notice R. 543 of the EIA Regulations of 18 June 2010.

**Waste Management Activities; Notice No. 32368 of 3 July 2009:**

Category B, No. 7: The treatment of effluent, wastewater or sewage with an annual throughput capacity of 15 000 cubic metres or more; and

Category B, No. 11: The construction of facilities for activities listed in Category B of this Schedule (not in isolation to associated activity).

**Water Uses Applied for:**

Section 21(a): taking water from a water resource.

Section 21(b): storage of water.

Section 21(c): impeding or diverting the flow of water in a watercourse.

Section 21(e): engaging in a controlled activity, identified as such in Section 37(1): irrigation of any land with waste or water containing waste generated through any industrial activity or by a waterwork.

Section 21(f): discharging waste or water containing waste into a water resource through a pipe, canal, sewer, sea outfall or other conduit.

Section 21(g): disposing of waste in a manner which may detrimentally impact on a water resource.

Section 21(i): altering the bed, banks, course or characteristics of a watercourse.

**Activity Description:**

The construction of a wastewater treatment works for the treatment of abattoir wastewater.

The treatment works will treat 2 500m<sup>3</sup> of the abattoir wastewater per day to an acceptable discharge quality.

Approximately 50% of the treated wastewater will be further treated to a quality that can be re-used by the abattoir facility.

**Applicant:** AFGRI Poultry (Pty) Ltd.

**Project Name:** AFGRI Poultry Delmas Abattoir Wastewater Treatment Works

**Locations:** Portion 21 of the farm Geluk 234 IR.

**Reference number:** 12/9/11/L875/6

**Environmental Consultants:**

Shangoni Management Services (Pty) Ltd

PO Box 74726

Lynnwood Ridge

Pretoria

0040

Tel: (012) 807 7036

Fax: (012) 807 1014 / 086 643 5360

Mobile: +27 71 673 3355

E-mail: lizette@shangoni.co.za

**Invitation to Participate:**

Should you wish to be included in the register of Interested and Affected Parties or comment on this application, please submit your name, contact information, and interest in the matter in writing to the above address not later than 31 May 2012.

*Figure 64: Wording of site notice in English.*



## AFGRI POULTRY (PTY) LTD

### PUBLIEKE KENNISGEWING TER AANSOEK VIR OMGEWINGSMAGTIGING, AFVAL BESTUUR LISENSIE EN WATER GEBRUIK LISENSIE

Belanghebbende en Geaffekteerde partye word hiermee in kennis gestel dat 'n aansoek vir omgewingsmagtiging ingevolge die Omgewings Impak Studie Regulasies van 18 Junie 2010, in terme van Hoofstuk 5 van die Nasionale Omgewings Bestuur Wet van 1998, soos gewysig, ingedien is vir 'n afvalbestuurlisensie volgens die Nasionale Omgewings Bestuur: Afval Wet, 2008 (Wet No. 59 van 2008), en dat 'n watergebruikslisensie aansoek volgens Artikel 21 van die Nasionale Waterwet, 1998 (Wet No. 36 van 1998) in proses is.

#### **Wetgewing:**

Die aktiwiteite vereis dat die volgende aansoeke geloots word: 'n volle Omgewings Impak Studie proses soos vereis deur Artikel 26 tot 35 van Staats Kennisgewing R.543 van die Omgewings Impak Studie regulasies van 18 Junie 2010.

#### **Afvalbestuur Aktiwiteite, Kennisgewing No. 32368 van 3 Julie 2009**

- Kategorie B, No 7: die behandelings van uitskotwater, afvalwater of riool met 'n jaarlikse deursnit kapasiteit van 15 000m<sup>3</sup> of meer; en
- Kategorie B, No 11: die konstruksie van fasiliteite vir aktiwiteite gelys in Kategorie B van die Skedule (nie in isolasie van geassosieerde aktiwiteite nie).

#### **Water Gebruike waarvoor aansoek gedoen word**

- Seksie 21(a): onttrekking van water uit 'n waterbron.
- Seksie 21(b): stoor van water.
- Seksie 21(c): belemmer of verplaasing van vloei van water in 'n waterloop.
- Seksie 21(e): om betrokke te raak in 'n beheerde aktiwiteit so geïdentifiseer in seksie 37(1): besproeiing van enige grond met afval of water wat afval bevat, gegenereer deur enige industriële aktiwiteit of deur 'n waterwerk.
- Seksie 21(f): ontslaan van afval of water wat afval bevat in 'n waterbron deur 'n pyp, kanaal, drein, see uitloop of ander watervoer.
- Seksie 21(g): afset van water in 'n wyse wat 'n nadelige impak op 'n waterbron kan hê.
- Seksie 21(i): wysiging van rivierbed, oewer, rivier of eienskappe van 'n waterafloop.

#### **Beskrywing van aktiwiteit:**

- Die konstruksie van 'n afvalwater behandeling werke, vir die behandeling van abattoir afvalwater.
- Die behandeling werke sal eerstens 2 500m<sup>3</sup> abattoir afvalwater behandel per dag, tot 'n aanvaarbare gehalte.
- Daarna sal ongeveer 50% van die behandelde water verder behandel word na 'n kwaliteit wat aanvaarbaar is vir die hergebruik daarvan in die abattoir.

**Applikant:** AFGRI Poultry (Pty) Ltd.

**Projek naam:** AFGRI Poultry Delmas Abattoir Wastewater Treatment Works

**Ligging:** Gedeelte 21 van die plaas Geluk 234 IR.

**Verwysingsnommer:** 12/9/11/L875/6

#### **Omgewingskonsultante:**

Shangoni Management Services (Pty) Ltd  
PO Box 74726  
Lynnwood Ridge  
Pretoria  
0040

Tel: (012) 807 7036  
Faks: (012) 807 1014 / 086 643 5360  
Sel: +27 71 673 3355  
E-pos: [lizette@shangoni.co.za](mailto:lizette@shangoni.co.za)

#### **Publieke Deelname Uitnodiging:**

Vir enige kommentaar en/of navrae, of indien u as belanghebbende en/of geaffekteerde party wil registreer of ons wil inlig van enige ander partye en/of organisasie en/of staatsinstelling wat in kennis gestel moet word, kan u gerus vir Lizette Crous kontak by die bogenoemde kontakbesonderhede, nie later as **31 Mei 2012** nie.



Figure 65: Wording of site notice in Afrikaans.