



**THE PROPOSED EXPANSION OF THE SLAUGHTERING VOLUMES  
AT THE SUPREME POULTRY TIGANE PROCESSING PLANT FROM  
150 000 UNITS TO 200 000 UNITS PER DAY ON PORTION 499  
OF THE FARM HARTBEEFONTEIN 297, HARTBEEFONTEIN,  
NORTH WEST PROVINCE**

**Environmental Management Programme**

OCTOBER 2022

Prepared for:



Prepared by:

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079 459 9881

Today's Impact | Tomorrow's Legacy

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## LIST OF ACRONYMS AND ABBREVIATIONS

<b>DESTEA</b>	-	Economic, Small Business Development, Tourism and Environmental Affairs
<b>DEO</b>	-	Designated Environmental Officer
<b>DFFE</b>	-	Department of Forestry, Fisheries and the Environment
<b>ECO</b>	-	Environmental Control Officer
<b>EIA</b>	-	Environmental Impact Assessment
<b>BAR</b>	-	Basic Environmental Impact Report
<b>EMPr</b>	-	Environmental Management Programme Report
<b>EPC</b>	-	Engineering Procurement Contractor
<b>I&amp;APs</b>	-	Interested and Affected Parties
<b>IDP</b>	-	Integrated Development Plan
<b>NEMA</b>	-	National Environmental Management Act, 1998 (Act No. 107 of 1998)
<b>NEMBA</b>	-	National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of 2004)
<b>NHRA</b>	-	National Heritage Resources Act, 1999 (Act No. 25 of 1999)
<b>NSBA</b>	-	National Spatial Biodiversity Assessment
<b>NWA</b>	-	National Water Act, 1998 (Act No. 36 of 1998)
<b>HWC</b>	-	Heritage Western Cape
<b>PPP</b>	-	Public Participation Process
<b>SAHRA</b>	-	South African Heritage Resources Agency
<b>SDF</b>	-	Spatial Development Framework

## GLOSSARY OF TERMS

**Alien species:** A plant or animal species introduced from elsewhere: neither endemic nor indigenous.

**Applicant:** Any person who applies for an authorisation to undertake an activity or undertake an Environmental Process in terms of the Environmental Impact Assessment Regulations – National Environmental Management Act, 1998 (Act No. 107 of 1998) (NEMA) as contemplated in the scheduled activities listed in Government Notice (GN) No R. 327, 325 and 324, as amended.

**Biodiversity:** The variety of life in an area, including the number of different species, the genetic wealth within each species, and the natural areas where they are found.

**Cumulative Impact:** In relation to an activity, cumulative impact means the impact of an activity that in-itself may not be significant, but may become significant when added to the existing and potential impacts eventuating from similar or diverse activities or undertakings in the area.

**Ecology:** The study of the interrelationships between organisms and their environments.

**Environment:** All physical, chemical and biological factors and conditions that influence an object.

**Environmental Impact Assessment:** In relation to an application, to which Scoping must be applied, means the process of collecting, organising, analysing, interpreting and communicating information that is relevant to the consideration of the application.

**Environmental Impact Report:** In-depth assessment of impacts associated with a proposed development. This forms the second phase of an Environmental Impact Assessment and follows on from the Scoping Report.

**Environmental Management Programme:** A legally binding working document, which stipulates environmental and socio-economic mitigation measures that must be implemented by several responsible parties throughout the duration of the proposed project.

**Heritage resources:** This means any place or object of cultural and archaeological significance.

**Precipitation:** Any form of water, such as rain, snow, sleet, or hail that falls to the earth's surface.

**Red Data species:** All those species included in the categories of endangered, vulnerable or rare, as defined by the International Union for the Conservation of Nature and Natural Resources.

**Riparian:** The area of land adjacent to a stream or river that is influenced by stream induced or related processes.

**Soil compaction:** Soil becoming dense by blows, vehicle passage or other type of loading. Wet soils compact easier than moist or dry soils.

## 1 INTRODUCTION

This Environmental Management Programme (EMPr), amongst others, describes the mitigation measures and identifies the specific role players that will be responsible for the implementation of the mitigation measures, in order to ensure that impacts on the environment are minimised during the expansion, operational and decommissioning and closure phase of the existing Supreme Poultry Tigane Processing Plant on Portion 499 of the farm Hartbeesfontein 297 Hartbeesfontein, North West Province. This EMPr will additionally ensure that the expansion of the facility and its impact on the surrounding community is minimised.

This EMPr must form part of the contractual agreement between the relevant Contractor(s) and the Developer/Applicant.

### 1.1 NEMA Regulations Report Compliance

Appendix 4 of the National Environmental Management Act (NEMA) Environmental Impact Assessment (EIA) Regulations, 2014 (as amended) provides the content requirements for EMPr's. The table below lists the relevant requirements, indicates whether the relevant information is included in this report or not, and provides cross-references as to where the relevant information can be found in this report.

Table 1: Environmental Management Programme requirements as per Appendix 4 of the NEMA EIA Regulations, 2014 (as amended).

Reg.	EMPr Content	Included (Yes, No or N/A)	Report Section Reference
(a)	A draft environmental management programme must comply with section 24N of the Act and include -		
	details of:		
	(i) the person who prepared the environmental management programme; and	Yes	Chapter 3
	(ii) the expertise of that person to prepare an environmental management programme;	Yes	Chapter 3
(b)	A detailed description of the aspects of the activity that are covered by the EMPr as identified by the project description;	Yes	Chapter 4
(c)	A map at an appropriate scale which superimposes the proposed activity, its associated structures, and infrastructure on the environmental sensitivities of the preferred site, indicating any areas that should be avoided, including buffers;	Yes	Chapter 2

Reg.	EMPr Content	Included (Yes, No or N/A)	Report Section Reference
(d)	<p>A description of the impact management objectives, including management statements, identifying the impacts and risks that need to be avoided, managed and mitigated as identified through the environmental impact assessment process for all phases of the development including –</p> <ul style="list-style-type: none"> <li>(i) planning and design;</li> <li>(ii) pre-construction activities;</li> <li>(iii) construction activities;</li> <li>(iv) rehabilitation of the environment after construction and where applicable post closure; and,</li> <li>(v) where relevant, operation activities;</li> </ul>	Yes	Chapter 9
(e)	a description and identification of impact management outcomes required for the aspects contemplated in paragraph (d);	Yes	Chapter 5
(f)	<p>A description of proposed impact management actions, identifying the manner in which the impact management outcomes contemplated in paragraph (d) will be achieved, and must, where applicable, include actions to—</p> <ul style="list-style-type: none"> <li>(i) avoid, modify, remedy, control or stop any action, activity or process which causes pollution or environmental degradation;</li> <li>(ii) comply with any prescribed environmental management standards or practices;</li> <li>(iii) comply with any applicable provisions of the Act regarding closure, where applicable; and,</li> <li>(iv) comply with any provisions of the Act regarding financial provisions for rehabilitation, where applicable;</li> </ul>	Yes	Chapter 7 and 9
(g)	The method of monitoring the implementation of the impact management actions contemplated in paragraph (f);	YES	Chapter 9
(h)	The frequency of monitoring the implementation of the impact management actions contemplated in paragraph (f);	YES	Chapter 7
(i)	An indication of the persons who will be responsible for the implementation of the impact management actions;	YES	Chapter 9
(j)	The time periods within which the impact management actions contemplated in paragraph (f) must be implemented;	-	-
(k)	The mechanism for monitoring compliance with the impact management actions contemplated in paragraph (f);	YES	Chapter 9
(l)	A program for reporting on compliance, taking into account the requirements as prescribed by Regulations;	YES	Chapter 7
(m)	<p>An environmental awareness plan describing the manner in which –</p> <ul style="list-style-type: none"> <li>(i) the applicant intends to inform his or her employees of any environmental risk which may result from their work; and,</li> <li>(ii) risk must be dealt with in order to avoid pollution or the degradation of the environment; and,</li> </ul>	YES	Chapter 8
(n)	Any specific information that may be required by the Competent Authority.	-	-

## 1.2 Report Layout

The table below summarises the content layout of this report.

**Table 2: Summary of report content layout.**

Chapter	Chapter Heading	Content Summary
1	Introduction	Provides a brief background to the proposed project and explains the compliance of this report with regards to Regulation 33 of the NEMA.
2	Map of the Proposed Activity	Provides a Sensitivity Map of the area surrounding the proposed project as well as a map showing the locality of the proposed project.
3	Environmental Assessment Practitioner	Provides details of the EAP who prepared this EMPr and provides information on the expertise of the EAP.
4	Project Description and Listed Activities Covered by this EMPr	Provides a brief project description and describes the relevant project phases and the NEMA Listed Activities triggered.
5	Existing Environmental and Impact Assessment Summary	Summarises the biophysical, social, economic and cultural aspects of the existing environment, and provides a summary of the impact assessment outcome.
6	Recommendations of the EAP	Provides recommendations of the EAP with regards to the Planning and Construction, Operation and Decommissioning phases.
7	Persons Responsible for Implementing this EMPr	Provides information on the persons who will be responsible for implementing this EMPr, and explains requirements with regards to on-site communication, site instruction entries, method statements, and record keeping.
8	Environmental Awareness Plan	Provides information on environmental awareness and risk training, and basic rules of conduct. Also provides an environmental risk plan.
9	Impacts and Mitigation Measures	Provides EMPrs for the relevant project phases.
10	Emergency Response Plan	Provides information on the emergency response plan.
11	Incident Register	Stipulates the content requirements for incident registers.
12	Rehabilitation Measures and Closure Plan	Provides rehabilitation measures and closure plan objectives.



2 MAP OF THE PROPOSED ACTIVITY

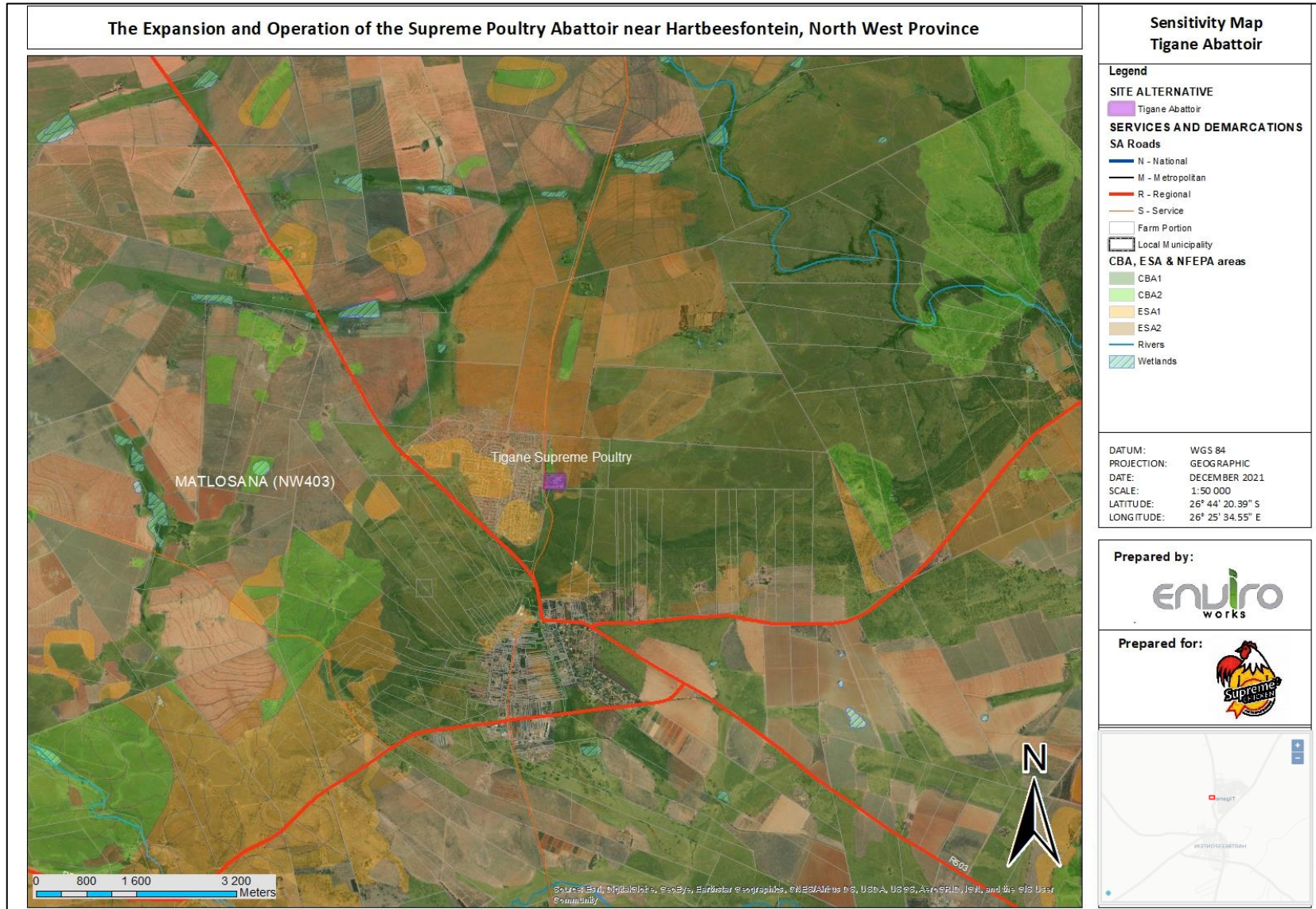


Figure 1: Sensitivity Map of the Processing Facility where the expansion took place

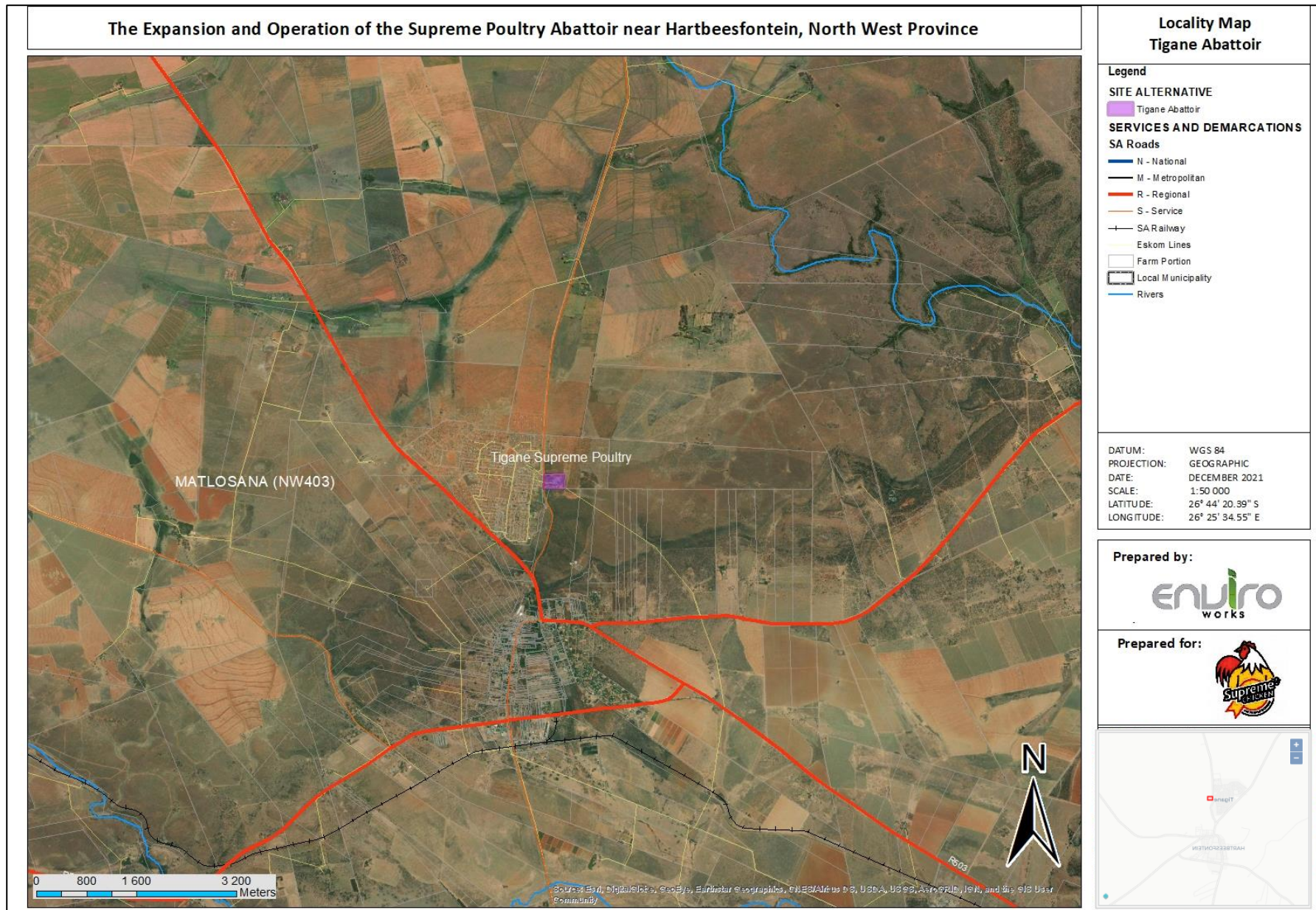


Figure 2: Locality Map of the Processing Facility where the expansion took place

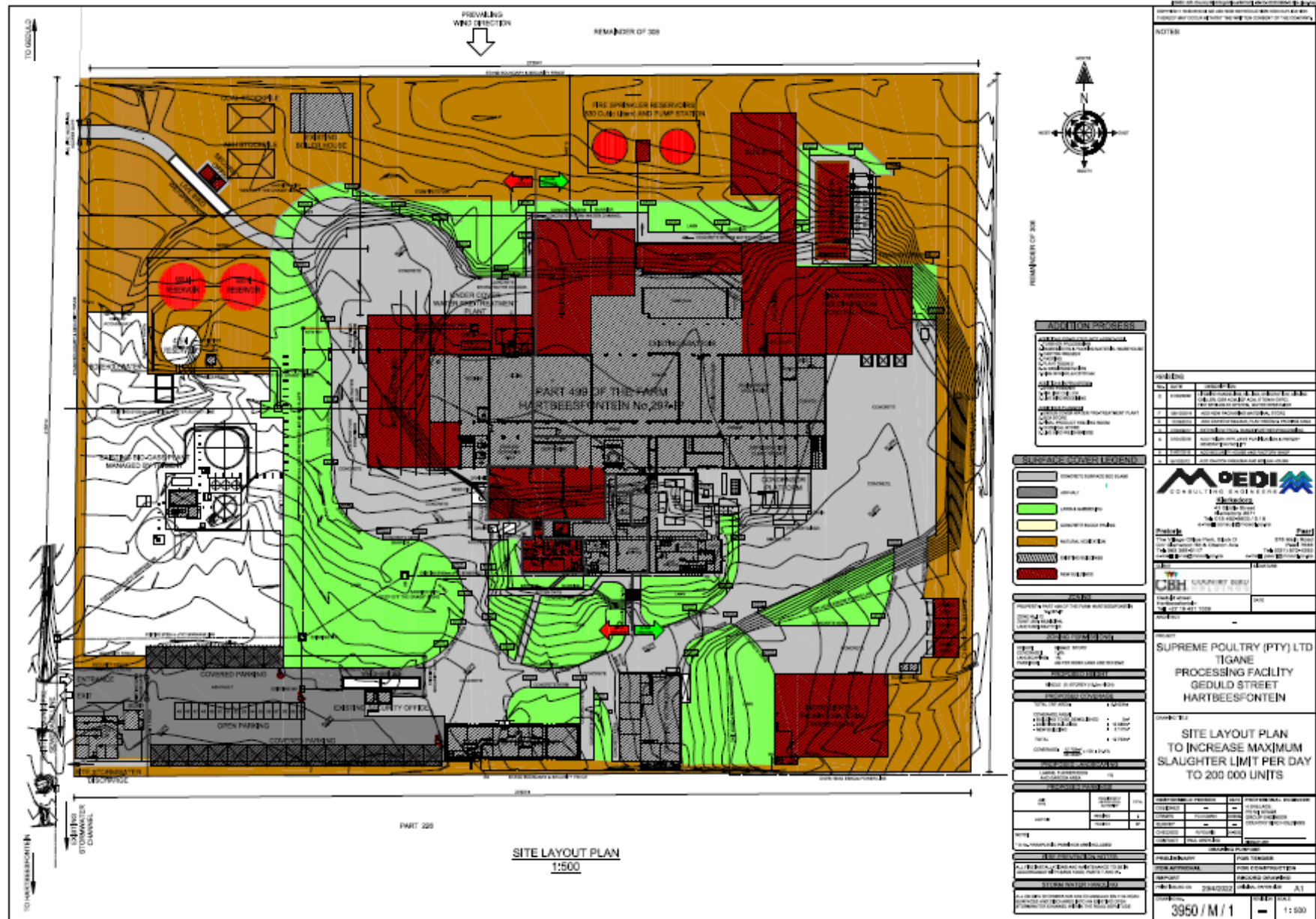


Figure 3: Existing Site Layout Plan

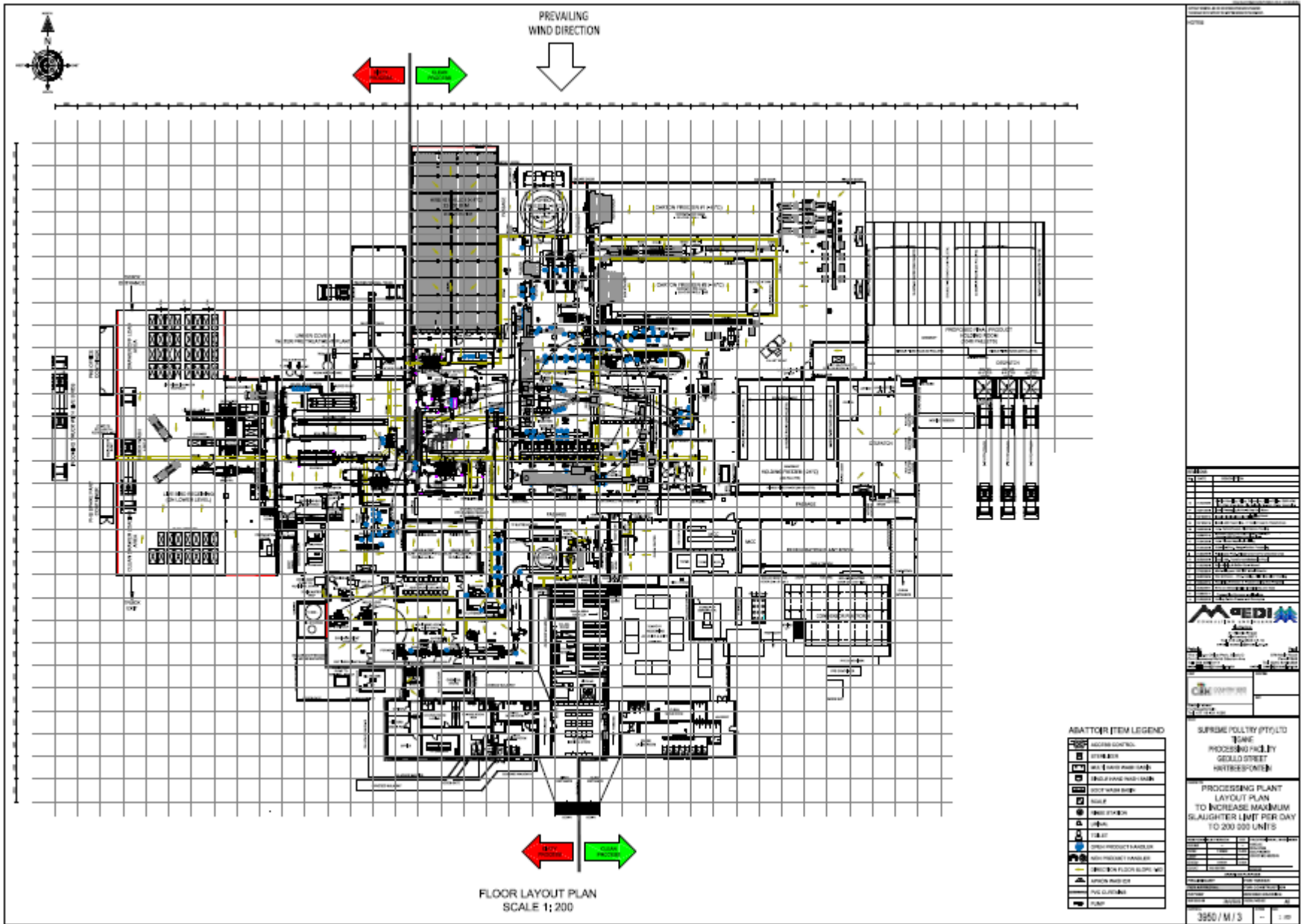


Figure 4: Existing Floor Layout Plan

### 3 ENVIRONMENTAL ASSESSMENT PRACTITIONER

This Environmental Management Programme Report (EMPr) was prepared by Edmari Lewis from Enviroworks, the Environmental Assessment Practitioner (EAP). The sections below provide the details of the EAP and explain the EAP's expertise to prepare this EMPr.

#### 3.1 Details of the EAP

<b>Business name of EAP:</b>	Enviroworks (PTY) Ltd.
<b>Physical address:</b>	5 Walter Sisulu Road, Park West, Bloemfontein, 9301
<b>Postal address:</b>	Enviroworks 1064, Private Bag x2, Century City
<b>Postal code:</b>	7446
<b>Telephone:</b>	079 459 9881
<b>E-mail:</b>	edmari@enviroworks.co.za
<b>Fax:</b>	086 601 7507

#### 3.2 Expertise of the EAP

<b>Name of EAP</b>	<b>Education qualifications</b>	<b>Professional affiliations</b>	<b>Experience at environmental assessments (yrs)</b>
Edmari Lewis	BSc. Hons. Environmental Science with Geography and Environmental Management	EAPASA 2021/3452 SACNASP 147171	2 years
<b>Name of EAP (Reviewer)</b>	<b>Education qualifications</b>	<b>Professional affiliations</b>	<b>Experience at environmental assessments (yrs)</b>
Elana Mostert	MSc. Botany (SU)	IAIA 5631; EAPASA 2019/1311;	5 years

### 3.3 Curriculum Vitae of the EAP



Enviroworks, PO Box 1064, Private Bag x2, Century City, 7446

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#### Edmari Lewis

<b>Name:</b>	Edmari
<b>Surname:</b>	Lewis
<b>Highest qualification:</b>	BSc. Hons. Environmental Science with Geography and Environmental Management
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#### PROFESSIONAL QUALIFICATIONS

##### Professional Associations

- Candidate Natural Scientist with the South African Council for Natural Scientific Professions (SACNASP) (147171)
- Candidate Environmental Assessment Practitioner with the Environmental Assessment Practitioners Association of South Africa (EAPASA) (2021/3452)

#### WORK EXPERIENCE

- June 2019 - July 2022: Environmental Consultant for Core Environmental Services (Mbombela)
- August 2022 – current: Environmental Consultant for Enviroworks (George)

#### PREVIOUS PROJECT EXPERIENCE (CES)

##### Scoping and Environmental Impact Assessment

- Scoping and Environmental Impact Assessment for the proposed Malalane Bypass Ring Road, Malalane, Mpumalanga Province, SANRAL
- Scoping and Environmental Impact Assessment for the clearance of 2000 hectares of indigenous vegetation for agricultural purposes, Nkomazi Game Reserve

##### Basic Assessment

- The proposed citrus plantation on portion 5 of the farm Duma 201-JU, Mbombela, Mpumalanga Province, AEONIK FARMS SEQUOIA (Pty) Ltd
- The expansion and operation of poultry facilities, Mbombela, Mpumalanga Province, Matumaini Farming
- The proposed Middelburg Dam Precinct Plan, Middelburg, Mpumalanga Province,
- Proposed Sebaka Cellular Mast, Mpumalanga Province, Thabure Towerco
- Proposed Rooibektiptol Cellular Mast, Mpumalanga Province, Thabure Towerco
- Proposed Doornkop Cellular Mast, Mpumalanga Province, Thabure Towerco
- The proposed increase in slaughtering capacity for the Barberton Abattoir, Barberton, Mpumalanga Province,
- The proposed clearance of 19 hectares of indigenous vegetation for agricultural purposes on portion 74 of the farm Abek 6-JU, Hazyview, Mpumalanga Province, Shekinah Glory Boerdery
- Proposed clearance of 18.5 hectares of indigenous vegetation for agricultural purposes on portion 1 and 5 of the farm Mooifontein 292-JU, Schoemanskloof, Mpumalanga Province, Poplar Creek
- Proposed clearance of 13 hectares of indigenous vegetation on portion 15 of the farm Sandford 291-JU, Hazyview, Mpumalanga Province, Sandford Agri (Pty) Ltd.
- Desilting of two dams on portion 1 of the farm Hull 92-KU, Klaserie Private Nature Reserve, Hoedspruit, Limpopo Province, Gladys Group

#### **Water Use License Application**

- General Authorisation for the abstraction of surface and ground water for the purpose of bottling, Malalane, Mpumalanga Province, Vorn Water (Pty) Ltd.
- General Authorisation for the Crossings Channel Modification, Mbombela, Mpumalanga Province
- General Authorisation for the abstraction of groundwater for domestic use and CCA wood treatment
- General Authorisation for the proposed desilting of two dams located within Klaserie Private Nature Reserve, Hoedspruit, Limpopo Province

#### **Section 24G Rectification Application**

- Section 24G application for the unlawful clearing of indigenous vegetation, Mbombela, Mpumalanga Province, Wolmac Boerdery
- Section 24G application for the unlawful clearing of indigenous vegetation, Hazyview, Mpumalanga Province, Sandford Agri (Pty) Ltd
- Section 24G application for the unlawful clearing of indigenous vegetation, Mbombela, Mpumalanga Province, Ibhuesi Macs (Pty) Ltd

#### **Environmental Management Plans**

- Manufacturing of precast concrete hollow core slabs, Mbombela, Mpumalanga Province, NORSE Projects (Pty) Ltd
- The proposed citrus plantation on portion 5 of the farm Duma 201-JU, Mbombela, Mpumalanga Province, AEONIK FARMS SEQUOIA (Pty) Ltd
- The expansion and operation of poultry facilities, Mbombela, Mpumalanga Province, Matumaini Farming
- The proposed Middelburg Dam Precinct Plan, Middelburg, Mpumalanga Province,
- Proposed Sebaka Cellular Mast, Mpumalanga Province, Thabure Towerco
- Proposed Rooibektiptol Cellular Mast, Mpumalanga Province, Thabure Towerco
- Proposed Doornkop Cellular Mast, Mpumalanga Province, Thabure Towerco
- The proposed increase in slaughtering capacity for the Barberton Abattoir, Barberton, Mpumalanga Province,
- The proposed clearance of 19 hectares of indigenous vegetation for agricultural purposes on portion 74 of the farm Abek 6-JU, Hazyview, Mpumalanga Province, Shekinah Glory Boerdery
- Proposed clearance of 18.5 hectares of indigenous vegetation for agricultural purposes on portion 1 and 5 of the farm Mooifontein 292-JU, Schoemanskloof, Mpumalanga Province, Poplar Creek
- Proposed clearance of 13 hectares of indigenous vegetation on portion 15 of the farm Sandford 291-JU, Hazyview, Mpumalanga Province, Sandford Agri (Pty) Ltd.
- Desilting of two dams on portion 1 of the farm Hull 92-KU, Klaserie Private Nature Reserve, Hoedspruit, Limpopo Province, Gladys Group
- Section 24G application for the unlawful clearing of indigenous vegetation, Mbombela, Mpumalanga Province, Wolmac Boerdery
- Section 24G application for the unlawful clearing of indigenous vegetation, Hazyview, Mpumalanga Province, Sandford Agri (Pty) Ltd
- Section 24G application for the unlawful clearing of indigenous vegetation, Mbombela, Mpumalanga Province, Ibhuesi Macs (Pty) Ltd

#### **Environmental Control Officer/ Auditing**

- Environmental Compliance Auditing for the development of Matumi Valley Estate, Mbombela, Mpumalanga Province, Craft Homes
- External Auditor for the Montrose Interchange, Mbombela, Mpumalanga Province, SANRAL

#### **Mining Permit Application**

- Establishment of a borrow pit for the purpose of road upgrades, Acornhoek, Mpumalanga Province, Bushbuckridge Local Municipality

### 3.4 Curriculum Vitae of the Review EAP

#### Elana Mostert CV – Environmental- & Ecological Specialist | Operations- & Project Manager



<b>Name:</b>	Elana
<b>Surname:</b>	Mostert
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<b>Cell phone:</b>	076 838 3058
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#### **RELEVANT QUALIFICATIONS**

- MSc Botany (SU): Specialising in Invasion Biology & Fynbos Restoration
- BSc Hons Plant Sciences- Ecology (UP)
- BSc Environmental Sciences (UP)
- Section 21 (c) and (i) Training: Roodeplaat (November 2017)
- SASS5 Aquatic Biomonitoring Training (November 2018)

#### **WORK EXPERIENCE**

- March 2016 - May 2017: Field assistant, Plant Ecologist at Department of Environmental Affairs (Oceans & Coasts)
- June 2017 - current: Environmental Consultant & Ecological Specialist at Enviroworks
- January 2019 – June 2021: Office Manager for Enviroworks, Cape Town
- July 2021 – current: Operations- & Project Manager for Enviroworks (Cape Town, Bloemfontein & George)

#### **Published popular Science article:**

- Mostert, E., Gaertner, M., Hall, S., Mukundamago, M., Holmes, P. 2015. *Solving the puzzle of restoring the missing fynbos*. Quest, Volume 11, Number 3.

#### **Publication in peer-reviews journals:**

- Mostert, E., *et al.*, Impacts of invasive alien trees on threatened lowland vegetation types in the Cape Floristic Region, South Africa, South African Journal of Botany 108 (2017) 209–222. DOI <https://doi.org/10.1016/j.sajb.2016.10.014>



- Mostert E., et al, A multi-criterion approach for prioritizing areas in urban ecosystems for active restoration following invasive plant control, Environmental Management, 1-20, DOI 10.1007/s00267-018-1103-9
- Snyman, A., Mostert, E. and Ludynia, K., 2021. Sex determination of Kelp Gull *Larus dominicanus vetula* using head and bill measurements. *Ostrich*, 92(2), pp.147-150. DOI <https://doi.org/10.2989/00306525.2021.1887951>

#### **SCREENING PROCESS AND LEGAL QUERIES:**

- Environmental Screening Process for the proposed Gromis-Nama-Aggeneis 400kV IPP integration power line, Northern Cape Province, Eskom SOC Ltd.
- Environmental screening and EIA applicability checklist for the proposed development of a telecommunication base station on erf 9284, Somerset West, Western Cape Province, CTC Operations (Pty) Ltd.
- Environmental screening for the periodic maintenance of TR1/2, TR1/3, TR44/1, TR88/1, MR401, MR402 and DR1834, near Uniondale, Western Cape Province, Western Cape Department of Transport and Public Works.
- Environmental screening for the R60 selected road crossing and road widening between Worcester and Ashton, Western Cape Province, Western Cape Department of Transport and Public Works.
- Environment Screening Process and EIA applicability checklist for the proposed rehabilitation of Tafelberg Road, extending from the intersection at Tafelberg Road and Kloofnek Road (SV0) to the Lower Cableway Station (SV1351), City of Cape Town, Western Cape Province, City of Cape Town Metropolitan Municipality.
- Legal Query for the Proposed Improvement of a Section of the National Road (N11) Which Has Been Undermined Near Newcastle in the KwaZulu-Natal Province, BVi Consulting Engineers (Pty) Ltd on Behalf of South African National Roads Agency SOC Limited (SANRAL).

#### **WATER USE LICENCE APPLICATIONS**

- General Authorization for the rehabilitation of Divisional Road 1688 from Calitzdorp (KM 1.00) to the Calitzdorp Spa Turnoff (KM 15.64), Western Cape Province, BVi Consulting Engineers.
- General Authorization for the the periodic maintenance of TR1/2, TR1/3, TR44/1, TR88/1, MR401, MR402 and DR1834, near Uniondale, Western Cape Province, Western Cape Department of Transport and Public Works.
- General Authorization for the proposed construction of a cellular telecommunications base station and associated infrastructure in Roodekrans, Gauteng, Coast to Coast Towers (Pty) Ltd.
- General Authorization for the remediation of a section of the Bath River and associated infrastructure – Site 1, Caledon, Western Cape Province, Theewaterskloof Local Municipality.

#### **SECTION 24G RECTIFICATION APPLICATION**

- Section 24G Application for the unlawful clearing of indigenous vegetation and construction of chicken lay houses, Molote City, North West Province, Baramakama Poultry (Pty) Ltd.

#### **ENVIRONMENTAL CONTROL OFFICER/AUDITING**

- Environmental Control Officer for the rehabilitation of Divisional Road 1688 from Calitzdorp (KM 1.00) to the Calitzdorp Spa Turnoff (KM 15.64), Western Cape Province, BVi Consulting Engineers.
- Environmental Control Officer for the periodic maintenance of TR1/2, TR1/3, TR44/1, TR88/1, MR401, MR402 and DR1834, near Uniondale, Western Cape Province, Western Cape Department of Transport and Public Works.
- External environmental compliance auditing for the upgrade of the Caledon-Myddleton bulk sewer main (Phase 3), Caledon, Western Cape Province, Theewaterskloof Local Municipality.
- External environmental compliance auditing for the upgrade of the Caledon-Myddleton bulk sewer main (Phase 4), Caledon, Western Cape Province, Theewaterskloof Local Municipality.
- Environmental Authorisation Compliance Checklist for the Development of a Telecommunication Mast and Associated Infrastructure on Portion 21 of Farm Bakkely's Plat No. 156, Buffelsjags River, Swellendam, Western Cape, Coast to Coast Towers (Pty) Ltd.
- Environmental Authorisation Compliance Checklist for the Development of a Cellular Telecommunications Base Station and Associated Infrastructure on Portion 76 of Farm No. 106, Robertson, Western Cape, Coast to Coast Towers (Pty) Ltd.
- External Environmental Compliance Audit for the Atmospheric Emission Licence for the PetrosSA Bloemfontein Depot, Free State, PetroSA.

#### **ENVIRONMENTAL REHABILITATION PLAN**

- Environmental rehabilitation plan for all the areas affected by the continuous spillage of raw sewage in and around Upington, Northern Cape Province, Dawid Kruiper Local Municipality.

#### **BASIC ASSESSMENT EXPERIENCE**

- The proposed construction of a cellular telecommunications base station and associated infrastructure on Portion 76 of Farm No. 106, Robertson, Western Cape Province, Coast to Coast Towers (Pty) Ltd.
- The proposed construction of a cellular telecommunications base station and associated infrastructure on Portion 1 of Farm No. 178, Fisantekraal, City of Cape Town, Western Cape Province, Coast to Coast Towers (Pty) Ltd.
- The proposed development of a telecommunication base station and associated infrastructure on Portion 8 of the Farm Delta no. 1003, Groot Drakenstein, Western Cape Province, Coast to Coast Towers (Pty) Ltd.
- Proposed development of a free standing cellular communication base station and associated infrastructure on Portion 7 of the Farm Haane Kuil no. 335, Beaufort West, Western Cape Province, Warren Petterson Planning (Pty) Ltd.
- The proposed development of a filling station on Portion 538 of the Farm Zevenfontein no. 407, Broadacres, Johannesburg, Gauteng Province, TTP Consult (Pty) Ltd.

#### **INTEGRATED ENVIRONMENTAL AUTHORISATIONS**

- Amendment of the Environmental Integrated Authorisation for the Continuous Ash Disposal at Matimba Power Station, Lephalale, Limpopo Province, Eskom Holdings SOC Ltd.

#### **ENVIRONMENTAL MANAGEMENT PLANS**

- The proposed construction of a cellular telecommunications base station and associated infrastructure on Portion 76 of Farm No. 106, Robertson, Western Cape Province, Coast to Coast Towers (Pty) Ltd.
- The proposed construction of a cellular telecommunications base station and associated infrastructure on Portion 1 of Farm No. 178, Fisantekraal, City of Cape Town, Western Cape Province, Coast to Coast Towers (Pty) Ltd.
- The proposed development of a telecommunication base station and associated infrastructure on Portion 8 of the Farm Delta no. 1003, Groot Drakenstein, Western Cape Province, Coast to Coast Towers (Pty) Ltd.
- Proposed development of a free standing cellular communication base station and associated infrastructure on Portion 7 of the Farm Haane Kuil no. 335, Beaufort West, Western Cape Province, Warren Petterson Planning (Pty) Ltd.
- The proposed development of a filling station on Portion 538 of the Farm Zevenfontein no. 407, Broadacres, Johannesburg, Gauteng Province, TTP Consult (Pty) Ltd.
- Section 24G Application for the unlawful clearing of indigenous vegetation and construction of chicken lay houses, Molote City, North West Province, Baramakama Poultry (Pty) Ltd.
- Construction and Maintenance Environmental Management Plan for the proposed rehabilitation of Tafelberg Road, extending from the intersection at Tafelberg Road and Kloofnek Road (SV0) to the Lower Cableway Station (SV1351), City of Cape Town, Western Cape Province, City of Cape Town Metropolitan Municipality.

#### **OTHER ENVIRONMENTAL CONSULTING WORK**

- Environmental Statement for Erf 3301 and 8622 Hout Bay for the Conversion of Current Development Rights – Retirement Complex, Hout Bay, City of Cape Town, Western Cape Province, Riverside Guesthouse.
- Recommendations on the Environmental Authorisation Conditions Resulting from the Ecological Impact Assessment Done for the Residential Development on the Farm Lilyvale 30/2313, Bloemfontein, Mangaung Metropolitan Municipality, Free State Province, Free State Department of Economics, Small Business Development, Tourism and Environmental Affairs (DESTEA).
- Environmental Consultant for the Provision of Professional Services: Planning, Preliminary Design, Concept Design, Detail Design, Tender Documentation and Construction Supervision for a City-Wide Public Transport Infrastructure Programme - Maitland Public Transport Interchange (PTI), City of Cape Town, Western Cape Province, BVi Consulting Engineers Western Cape (Pty) Ltd on Behalf of The City of Cape Town Metropolitan Municipality.
- Environmental Consultant for the Provision of Professional Services: Planning, Preliminary Design, Concept Design, Detail Design, Tender Documentation and Construction Supervision for a City-Wide Public Transport Infrastructure Programme - Durbanville Public Transport Interchange (PTI), City of Cape Town, Western Cape Province, BVi Consulting Engineers Western Cape (Pty) Ltd on Behalf of The City of Cape Town Metropolitan Municipality.
- Environmental Consultant for the Provision of Professional Services: Planning, Preliminary Design, Concept Design, Detail Design, Tender Documentation and Construction Supervision for a City-Wide Public Transport Infrastructure Programme - 83 Permanent MyCiTi Bus Stops, City of Cape Town, Western Cape Province, BVi Consulting Engineers Western Cape (Pty) Ltd on Behalf of The City of Cape Town Metropolitan Municipality.
- External Investigation Report for the Composting Facility of WD Hall Transport (Pty) Ltd Outside Heidelberg, Lesedi Local Municipality, Gauteng Province, Nigel Goldfields Lodge cc T/A De Pecan Valley.
- Confirmation of Water Use Registrations for the Portion Uitikyk 5 of the Farm Bosch Rivier no. 119, near Montague, Western Cape Province, Jap van der Merwe.

#### **APPEAL PROCESSES**

- Appeal process for the proposed development of a telecommunication base station and associated infrastructure on Portion 8 of the Farm Delta no. 1003, Groot Drakenstein, Western Cape Province, Coast to Coast Towers (Pty) Ltd.
- Appeal process for the Section 24G Application for the unlawful clearing of indigenous vegetation and construction of chicken lay houses, Molote City, North West Province, Baramakama Poultry (Pty) Ltd.

#### **FRESHWATER ECOLOGICAL ASSESSMENTS**

- Freshwater Impact Assessment for the Environmental Screening Process for the proposed Gromis-Nama-Aggeneis 400kV IPP integration power line, Northern Cape Province, Eskom SOC Ltd.
- Wetland delineation and DWS Section 21 (c) & (i) Water Use Risk Matrix for the proposed development of 100 erven on Erf 210 in Sutherland, Karoo Hoogland Local Municipality, Northern Cape, COGHSTA.
- Wetland delineation and DWS Section 21 (c) & (i) Water Use Risk Matrix for the proposed Zachtvlei Dam And Bulk Conveyance Infrastructure, Lady Grey, Eastern Cape, Indwe Environmental Consulting for Joe Gqabi District Municipality.
- DWS Section 21 (c) & (i) Water Use Risk Matrix for the proposed development of Erf 3976 for a mixed use development in Hartswater, Phokwane Municipality, Northern Cape, Makespace Architects.
- DWS Section 21 (c) & (i) Water Use Risk matrix for the proposed construction of a cellular telecommunications base station and associated infrastructure in Roodekrans, Gauteng, Coast to Coast Towers (Pty) Ltd.
- Wetland delineation for the proposed development of the Sarah Baartman Agricultural Hub, Eastern Cape, FemPlan.
- Wetland delineation for the proposed development of the Alfred Nzo Agricultural Hub, Eastern Cape, FemPlan.
- Wetland delineation for the proposed development of the OR Tambo Agricultural Hub, Eastern Cape, FemPlan.
- DWS Section 21 (c) & (i) Water Use Risk Matrix for the proposed expansion of a granite mine in Biesjesfontein, Springbok, Northern Cape, Greenmined.
- DWS Section 21 (c) & (i) Water Use Risk Matrix for the proposed development of new sports grounds at Waterstone College, Olifantsvlei, Gauteng, CURRO.
- Wetland delineation and DWS Section 21 (c) & (i) Water Use Risk Matrix for the 24G Application for the unlawful clearing of indigenous vegetation and construction of chicken lay houses, Molote City, North West Province, Baramakama Poultry (Pty) Ltd.
- Freshwater specialist study for the extension of a canal by 10 metres at km0.1 along Minor Road 6924, Western Cape Province, Garden Route District Municipality.
- Wetland delineation and DWS Section 21 (c) & (i) Water Use Risk Matrix for the 24G Application for the unlawful construction of a poultry farm, Belgie, Thaba 'Nchu, Free State, Country Bird Holdings.
- Freshwater Study and DWS Section 21 (c) & (i) Water Use Risk Matrix for the periodic maintenance of TR1/2, TR1/3, TR44/1, TR88/1, MR401, MR402 and DR1834, near Uniondale, Western Cape Province, Western Cape Department of Transport and Public Works.
- DWS Section 21 (c) & (i) Water Use Risk Matrix for the rehabilitation of Divisional Road 1688 from Calitzdorp (KM 1.00) to the Calitzdorp Spa Turnoff (KM 15.64), Western Cape Province, Western Cape Department of Transport and Public Works.
- Freshwater Impact Assessment and DWS Section 21 (c) & (i) Water Use Risk Matrix for the proposed construction of a water pipeline between Noenieput and Swartkop Dam, Northern Cape Province, Kalahari-East Water Users Association.
- Water Use License Requirements (Environmental Operation, Emergency & Management Plan; Monitoring Programme; Rehabilitation Plan) for the upgrade of the Caledon Bulk Sewerage pipeline along the Bath River between Caledon and Myddleton, Western Cape Province, Theewaterskloof Local Municipality.
- Freshwater Risk Assessment Statement for the Proposed Upgrades to Avondale Heights Block of Flats, 1 Avondale Terrace, Cape Town, Western Cape Province, UF Architects.
- Freshwater Assessment and DWS Section 21 (C) & (I) Risk Matrix for the Proposed Development of an Approximate Six Point Three Kilometre (6.3km) Long Pipeline Along Macassar Road, Between the Zandvliet and Macassar WWTW, Cape Town, Western Cape Province, BVi Consulting Engineers Western Cape (Pty) Ltd on Behalf of The City of Cape Town Metropolitan Municipality.
- Aquatic- and Terrestrial Biodiversity Assessment and DWS Section 21 (C) & (I) Risk Matrix for the Proposed Rotondo Dam on Farm 1093 (Rotondo Farm) to Act as a Storage Dam for the Rotondo Walnut Operation in the Rouxville District, Free State Province, Indwe Environmental Consulting in Association with Moira Cloete Environmental Consulting (MCEC).
- PES monitoring procedure of the Orange River for the the Xina Solar One thermal plant (Phase 2) and its associated infrastructure, Northern Cape Province, Abengoa Solar.
- Aquatic Biodiversity Impact Assessment and DWS Section 21 (C) & (I) Risk Matrix for the proposed rezoning of- and the development of fifteen (15) resort units on Portion 12 of the Farm Riet Valley No. 452, Hessequa Local Municipality, Western Cape Province, Silverspot Investments One CC.

- DWS Section 21 (c) & (i) Water Use Risk Matrix for the proposed road upgrades to the Stikland Psychiatric Hospital, Bellville, City of Cape Town Metropolitan Municipality, Western Cape Province. BVi Consulting Engineers Western Cape Province (Pty) Ltd on behalf of the Western Cape Department of Transport and Public Works.
- DWS Section 21 (c) & (i) Water Use Risk Matrix for the proposed Mining Permit for all forms of limestone, dimension stone and marble on a Portion of Portion 3 of the Farm Welverdiend No. 511, Vanrhynsdorp, Western Cape Province, Greenmined Environmental.
- Aquatic Biodiversity Compliance Statement and DWS Section 21 (c) & (i) Water Use Risk Matrix for the proposed development of a twenty-five meter (25m) telecommunications mast and associated infrastructure on Portion 3 of Farm No. 452, Almenkerk Wine Estate, Grabouw, Western Cape Province, SBA Towers South Africa (Pty) Ltd.
- DWS Section 21 (c) & (i) Water Use Risk Matrix for the proposed development of a thirty meter (30m) telecommunications mast on Portion 24 of Olyven Boomen Farm No. 83, Malan Valley, Wellington, Western Cape Province, SBA Towers South Africa (Pty) Ltd.
- DWS Section 21 (c) & (i) Water Use Risk Matrix for the proposed development of a Battery Energy Storage System (BESS) at the Ashton Substation on Erf 2202, Ashton, Western Cape Province, Eskom Holdings SOC Ltd.

#### **EXPERIENCE IN PERMITS AND LICENCING**

- Flora removal permit and translocation guidelines for the periodic maintenance of National Route 2 Section 4 between Rivieronderend (km 0.0) and Swellendam (km 56.9), Western Cape Province, SANRAL.
- Flora removal permit for the re-surfacing of the Donkergat Access Road located within the Langebaan 4 Special Forces Regiment Base, Langebaan, Western Cape, Department of Public Works.
- Fauna and flora removal permits for the upgrading of intersections and resealing of road sections between Hotazel and Black Rock, Northern Cape, SMEC.
- Flora removal permit for the rehabilitation of Divisional Road 1688 from Calitzdorp (KM 1.00) to the Calitzdorp Spa Turnoff (KM 15.64), Western Cape Province, BVi Consulting Engineers.

#### **ECOLOGICAL IMPACT ASSESSMENT EXPERIENCE**

- Botanical Impact Assessment for the Environmental Screening Process for the proposed Gromis-Nama-Aggeneis 400kV IPP integration power line, Northern Cape Province, Eskom SOC Ltd.
- Ecological Impact Assessment for the proposed development of 100 erven on Erf 210 in Sutherland, Karoo Hoogland Local Municipality, Northern Cape, COGHSTA Northern Cape.
- Ecological Impact Assessment for the periodic maintenance of National Route 2 Section 4 between Rivieronderend (km 0.0) and Swellendam (km 56.9), Western Cape Province, SANRAL.
- Flora identification study for the re-surfacing of the Donkergat Access Road located within the Langebaan 4 Special Forces Regiment Base, Langebaan, Western Cape, Department of Public Works.
- Quarterly monitoring assessment for the rehabilitation efforts on Portion 5 of Farm 830 Doornekraal, Malmesbury, Western Cape.
- Rehabilitation feedback and framework report for the rehabilitation efforts on Portion 5 of Farm 830 Doornekraal, Malmesbury, Western Cape.
- Botanical inspection and recommendations for vegetation rehabilitation at 13 Duikerweg, Melkbosstrand, Western Cape.
- Botanical inspection along R60 selected road crossing and road widening between Worcester and Ashton, Western Cape, BVi Consulting Engineers.
- Ecological Impact Assessment for the proposed development of the Mapungubwe Visitor Interpretation Centres and Overnight Facilities, Limpopo Province, SANParks.
- Ecological Impact Assessment for the proposed upgrade of the existing R27 entrance gate to the West Coast National Park, Western Cape Province, SANParks.
- Ecological Impact Assessment for the proposed development of Erf 3976 for a mixed use development in Hartswater, Phokwane Municipality, Northern Cape, Makespace Architects.
- Ecological Impact Assessment for the proposed construction of a cellular telecommunications base station and associated infrastructure in Roodekrans, Gauteng, Coast to Coast Towers (Pty) Ltd.
- Ecological Impact Assessment for the proposed construction of six lay houses and two new production (hen) houses at Frans Dam Farm, No. 803 Portion 3 in Brandfort, Free State, Moreson Plumvee Boerdery (Pty) Ltd.
- Ecological Impact Assessment for the 24G Application for the unlawful clearing of indigenous vegetation and construction of chicken lay houses, Molote City, North West Province, Baramakama Poultry (Pty) Ltd.
- Ecological Impact Assessment for the proposed construction of a composting facility on Farm No. 1136 Terugval Portion 1 in Brandfort, Free State, Moreson Plumvee Boerdery (Pty) Ltd.

- Ecological Impact Assessment for the 24G Application for the unlawful construction of a poultry farm, Belgie, Thaba 'Nchu, Free State, Country Bird Holdings.
- Ecological Impact Assessment for the the periodic maintenance of TR1/2, TR1/3, TR44/1, TR88/1, MR401, MR402 and DR1834, near Uniondale, Western Cape Province, Western Cape Department of Transport and Public Works.
- Botanical Survey for the proposed 20m monopole mast and base station on Erf 455, Simon's Town, Western Cape Province, Atlas Tower (Pty) Ltd.
- Flora- and Terrestrial Biodiversity Impact Assessment for the proposed construction of a water pipeline between Noenieput and Swartkop Dam, Northern Cape Province, Kalahari-East Water Users Association.
- Ecological close-out report for the Xina Solar One thermal plant (Phase 2) and its associated infrastructure, Northern Cape Province, Abengoa Solar.

#### **ALIEN INVASIVE SPECIES MANAGEMENT EXPERIENCE**

- Preparation of a plan to control and eradicate invasive species as contemplated in Section 76 of the Act, National Environmental Management: Biodiversity Act, 2004 (Act No.10 Of 2004) (NEMBA) for Theewaterskloof Local Municipality.
- Baseline Biodiversity Database and Alien Management Strategy Recommendations, Drakenstein, Western Cape, Drakenstein Municipality.
- Review and presentation of Lafarge Saldanha Alien Invasive Species Management Plan, Saldanha, Western Cape Province, Lafarge South Africa.
- Alien Invasive Species Training for staff and management, Saldanha, Western Cape Province, Lafarge South Africa.
- The Alien invasive species management plan for the Roads Services of the Garden Route District Municipality, Western Cape Province, Garden Route District Municipality (Review of final plan, project management and fieldwork).

## 4 PROJECT DESCRIPTION AND LISTED ACTIVITIES COVERED BY THIS EMPr

### 4.1 Brief Project Description

Phakamile Risk Consultants (Pty) Ltd. appointed King's Landing Trading 507 (Pty) Ltd t/a Enviroworks (hereafter referred to as Enviroworks), an independent Environmental Assessment Practitioner (EAP), on behalf of Supreme Poultry (Pty) Ltd. to submit an application for the ex post facto approval of the unlawful commencement or continuation of a listed activity in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) (NEMA), as amended, as well as the National Environmental Management: Air Quality Act, 2004 (Act 39 of 2004).

Supreme Poultry Tigane is situated on Portion 499 of the Farm Hartbeesfontein 297 in Hartebeesfontein within the jurisdiction of the Matlosana Local Municipality in the North West Province. The site is approximately six hectares (6 ha) in extent, encompassing a total development footprint of 1.6 ha.

#### 4.1.1 Coordinates

Longitude: 26° 44' 20.27" S

Latitude: 26° 25' 34.80" E

#### 4.1.2 Expansion Activity

The processing plant is an already established facility and is registered as an abattoir with the Department of Rural, Environmental and Agricultural Development, since 2013. From 2013 the daily product throughput gradually increased from 130 000 to 150 000 up until 2021. The most recent expansion activities took place between February 2022 and June 2022. The expansion is intended to increase the daily product throughput from 150 000 to 200 000 units per day. The expansion activities entailed, inter alia, the following:

- Expansion of the live birds receiving area;
- Installation of Air-line Chiller;
- Installation of Gyro Freezer;
- Installation of additional scalding tanks and pluckers;
- Installation of new automated bird-handling and evisceration technologies, to comply with animal welfare standards;
- Installation of blue lights at the receiving bay to ensure the chickens remain calm;
- Installation of an additional cooling tower and refrigeration compressors; and
- Installation of a new large automatic cutting machine.



Figure 5: Processing plant prior to the expansion of the live bird receiving area, air-line chiller and gyro freezer



Figure 6: a) Processing Plant post expansion of the (a) live bird receiving area and (b) Air-line Chiller and Gyro Freezer (© Provided by Saturday Star - 24 Jun 2022)

### **4.1.3 Factory Processes**

The factory processes are briefly discussed under the following sub-headings:

- Live Bird offloading;
- Slaughter and evisceration;
- Production
- Packaging and cooling of the processed units; and
- Processed portions transported to respective clients.

#### **Live Bird offloading**

The initial phase includes the delivery of the chickens at the live bird receiving area, which contains a lairage where trailer loads of live birds are held in modules, these modules are offloaded from the trailers using forklifts and are then placed in the auto-flow machine which presents live birds to operatives for placing on the live bird line.

#### **Slaughter and evisceration**

The second phase includes slaughtering and evisceration, which consist of the stunning and bleeding out of the chickens, debunking, removal of feathers and internal organs. After the organs are removed, they are washed, packaged, weighed and are stored. Hereafter the organs are sold to the intended prospective clients. By-products of the slaughter process that are unsuitable for further production such as feathers are segregated and transported to a rendering plant for disposal at Mahikeng Processing Plant.

#### **Packaging and cooling of the processed units**

The third phase involves the cutting or quartering of the carcasses into portions, after which the portions are washed at the cut-up wash station. Hereafter the portions are packaged and chilled in large industrial freezers and in “fresh areas”.

#### **Processed portions are transported to respective clients.**

Finally, the last phase constitutes the delivery phase, whereby the processed portions are transported to the loading bay area and then distributed to the intended customers.

### **4.1.4 Generation or Release of Emissions, Pollution and/or Effluent**

The sub-headings to follow provides details regarding the generation or release of emissions, pollution and/or effluent as a result of the primary activity.

- Emissions into the Atmosphere;
- Generation of Effluent;
- Waste Management; and
- Water Use.

#### **Emissions into the Atmosphere**

An average of 117 tonnes of Grade A coal and 9 948 litres of diesel is delivered to the Supreme Poultry Tigane Processing Plant on a monthly basis. The coal is stored in a banded storage area, before being loaded into the two steam generators present on site. Steam Generators are registered at the local authorities as fuel burning appliances. The stack diameter of boiler one (1) is 540mm and boiler two (2) is 550mm. Coal is burnt in the two steam generators, hereby generating steam, which is subsequently transferred to various areas of the Processing Plant. Diesel is used for the fryer at the Further Processing Plant (diesel fuelled fryer stack). - The installed KW on site including Steam Generators is 5442,40 KW.



### **Generation of Effluent**

Influent waste is composed of dissolved solids, blood, sludge and wash water. Influent is transferred in waste-water streams and passes through screens which remove the larger solids until effluent treatment takes place at the bio-gas plant (managed by TriGen) and the final treated effluent is discharged to the municipal sewer. Influent treated at the bio-gas plant is converted into energy (conversion of gas to Kilowatt (kW)). The capacity of the plant is 580 kW, however, due to the low output of the bio-gas plant the facility currently only generates heat (i.e. boiling water and steam for cooking process). As of April 2022, the average daily throughput of the facility is one thousand six hundred and ninety-eight cubic meters (850 m<sup>3</sup>). Environmental authorisation (NWDARD Reference: NWP/EIA/17/2014) was granted for the abattoir effluent treatment and storage of biogas at Tigane Supreme Poultry.

### **Waste Management**

It is estimated that the facility currently produces 397 648 kilograms of condemned waste per month, which include dead on arrivals (DOA), feathers, rejected chicken carcasses and portions of product. Condemned waste is first contained in facilities especially designed for this purpose which include amongst others, troughs, skips and bins. Non-infectious DOA is collected by WYDENE TRUST (Lion farm). Infectious DOA, feathers and rejected chicken carcasses and portions of product are sent to the Mahikeng Rendering Plant. Details of all loads are maintained by the site.

Sanitary and Medical Waste are collected by a registered waste removal contractor (Eco First and Averda respectively) and are incinerated off site. Sewerage from the ablution processing, admin, stores and workshop areas, as well as grey water from the showers and washing facilities are disposed of at an approved treatment facility. Paper and cardboard, plastic, scrap metal and wood pallets are recycled and reused wherever possible, excess material is recycled by a third party. Food waste produced within the canteen is collected by a local pig farmer and/or disposed of at the local, registered landfill site by a registered general waste removal contractor.

Coal ash are generated by the two coal fuelled Steam Generators on site and are stored in a designated storage area, whereafter it is collected and removed by a brick maker. Approximately 3 963 kilogram of ash is produced on a monthly basis.

### **Water Use**

Borehole water is sourced from a local farmer. The water is then stored on site in two existing reservoirs with a combined capacity of 830 m<sup>3</sup> and is used for processing, fire sprinklers and fire-fighting. There is also an existing reservoir at TriGen with a capacity of 425 m<sup>3</sup>. Two additional reservoirs, adjacent to the existing biogas plant, with a combined capacity of 1100 m<sup>3</sup> are proposed for future water use in processing.

The farmer is in the process of registering the water use and/or applying for a water use license with the responsible authority for the abstraction of water from a borehole, the storage of water in reservoirs and tanks, processing water and irrigation (in terms of Section 21 (a), (b), (e) and (g). Compliance with the National Water Act, 1998 in terms of the abovementioned activities will be audited in 2022.

## 4.2 Project Phases

This Applicant proposes the expansion of the output of the slaughtering volumes at Supreme Poultry Tigane Processing Plant from a hundred and fifty thousand (150 000) units per day to two hundred thousand (200 000) units per day. No construction at the facility will occur whatsoever, and therefore no other phases will be present other than the **Operational Phase**. As it is not anticipated that the Processing Plant will be decommissioned in the near future, the proposed impacts thereof were not assessed.

## 4.3 NEMA Listed Activities Triggered

The NEMA EIA Listed Activities (as per the NEMA EIA Regulations Listing Notices 1, 2 and 3 of 2017, as amended) that will be triggered by the proposed project are listed in the table below.

**Table 3: Listed Activities applicable to this application.**

Listed Activity	Project Activity / Component
<b>Government Notice Regulation No. 327 of 2017 (Listing Notice 1), as amended by GN R. 517 of 11 June 2021</b>	
<b>Activity 38</b>	The expansion and related operation of facilities for the slaughter of animals where the daily product throughput will be increased by more than-  (i) 50 poultry.

## 5 EXISTING ENVIRONMENTAL AND IMPACT ASSESSMENT SUMMARY

The sections below summarise the existing environment, and the outcome of the impact assessment that was undertaken for the proposed project.

### 5.1 The Receiving Environment

Supreme Poultry Tigane is situated on Portion 499 of the Farm Hartbeesfontein 297 in Hartebeesfontein within the jurisdiction of the Matlosana Local Municipality in the North West Province. The site is approximately six hectares (6 ha) in extent, encompassing a total development footprint of 1.6 ha. The proposed activity entails the expansion of the slaughtering volumes of an existing Chicken Processing Plant. The site where the expansion is proposed is ecologically completely transformed, with the only vegetation present inside the premises being landscaped lawns and a few planted trees. The underlying geology forms part of the Bothaville Formation and can best be described conglomerate, gritstone, quartzite, subgreywacke, shale lenses. The depth to groundwater is approximately twelve point zero nine metres below ground level (12.09 mbgl).

## 5.2 Public Participation

To support public interest and inform the EIA process, a public consultation process will proceed throughout the assessment. A diverse mix of authorities, stakeholders and interested and affected parties will be consulted with during this time, representing the environment, social, economic and political realms of local and regional and national bodies.

Comments received will be responded to during various stages of the Public Participation Process in the Basic Assessment report (BAR) and will be addressed in project reports as relevant. It is considered that throughout the PPP to be conducted by the EAP, all parties would have an adequate opportunity to partake in the process and all concerns will be addressed to ensure that all parties are in agreement with the expansion.

## 5.3 Environmental Impact Ratings

### 5.3.1 Potential Impacts during Planning, Design and Construction Phases

No physical construction or excavations will occur as the facility has been designed to accommodate an increase in the slaughter volumes, therefore there are no proposed impacts to be assessed.

### 5.3.2 Potential Impacts during Operational Phase

Operational Phase	Expansion Alternative 1		No-Go Alternative
	Before Mitigation	After Mitigation	
<b>POTENTIAL IMPACTS ON GEOGRAPHICAL AND PHYSICAL ASPECTS:</b>			
<b>Nature of impact:</b> Handling of general and hazardous waste materials on the development site.	<b>Activity:</b> Waste will be generated on site, if not disposed of correctly it will become a nuisance within the area and to the surrounding community. The expected general waste produced during the operational phase would not be significant higher than what is currently produced.		The no-go option was not assessed as the increase in the throughput will not result in additional construction activities, increase in footprint or increase in water use
<b>Significance rating:</b>	<b>M</b>	<b>L</b>	-
<b>Cumulative impact:</b>	-	-	-
<b>Nature of impact:</b> Traffic impacts associated with the movement of vehicles within the area.	<b>Activity:</b> The regular movement of vehicles Umkhonto Street would increase traffic flow and impede vehicle movement.  It should however be noted that although more birds would be transported to the facility, these are smaller birds and would subsequently require a similar amount of space to be transported. Thus, the same number of vehicles would be required to transport the birds to the facility. Therefore, the impact of traffic in the area after expansion would be similar to the current operational impact.		Current operational phase impacts are associated with the no-go alternative, thus no assessment has been undertaken.
<b>Significance rating:</b>	<b>L</b>	<b>L</b>	-
<b>Cumulative impact:</b>	<b>L</b>	<b>L</b>	-
<b>Nature of impact:</b> Surface and groundwater contamination from	<b>Activity:</b> Surface and groundwater can become contaminated due to operation of the Processing Plant. Currently, effluent i waste is composed of dissolved solids, blood, sludge and wash water. effluent is transferred in waste-water streams and passes through		Current operational phase impacts are associated with the no-go alternative, thus no assessment has been undertaken.

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Operational Phase	Expansion Alternative 1		No-Go Alternative
	Before Mitigation	After Mitigation	
the Processing Facility.	screens which remove the larger solids until effluent treatment takes place at the bio-gas plant (managed by TriGen) and the final treated effluent is discharged to the municipal sewer. Influent treated at the bio-gas plant is converted into energy.		Currently, the final treated effluent is discharged to the municipal sewer. Influent treated at the bio-gas plant is converted into energy.
Significance rating:	M	L	-
Cumulative impact:	-	-	-
Nature of impact: Increased risk of fires.	<b>Activity:</b> Due to the presence of personnel in the area, fires can occur if not managed to the correct standard.		Current operational phase impacts are associated with the no-go alternative, thus no assessment has been undertaken.  The facility is compliant with respect to Occupational Health and Safety regulations regarding Fire Management. Hot, cold work and confined space permit systems are implemented with lock-out-out procedure documents in place. Smoking areas are situated more than twenty metres (20 m) away from any buildings. Fire risk surveys are conducted by AJFS (Fire services)
Significance rating:	M	L	-
Cumulative impact:	-	-	-

Operational Phase	Expansion Alternative 1		No-Go Alternative
	Before Mitigation	After Mitigation	
<b>POTENTIAL IMPACTS ON BIOLOGICAL ASPECTS:</b>			
Nature of impact: Pesticides to control pests such as flies and rodents.	<b>Activity:</b> The Processing Plant will use pesticides (e.g. organic compounds and organo-metallic compounds) to control flies and rodents to prevent diseases (flies are carriers of diseases such as <i>Salmonella</i> , <i>Escherichia coli</i> as well as <i>Streptococcus</i> and <i>Staphylococcus</i> ).		Current operational phase impacts are associated with the no-go alternative, thus no assessment has been undertaken.  It should be noted that an increase in pesticides would not occur. Although more birds will be slaughtered should the slaughtering capacity be increased, a similar amount of biological material would be processed.  A Pest Control Program is currently implemented on site
Significance rating:	MH	L	-
Cumulative impact:	-	-	-
Nature of impact: Pathogens present due to carcasses of the chickens.	<b>Activity:</b> The carcasses of the chickens can be a source of odours, flies and diseases if not managed correctly.  Currently, the facility is fully compliant with respect to Occupation Health and Safety Legislation and the Health Act regarding the general hygiene requirements for food premises and the transportation of food. A Standard Operating Procedure (SOP) is implemented at the facility which deals with the issue regarding		Current operational phase impacts are associated with the no-go alternative, thus no assessment has been undertaken.  Currently, the facility is fully compliant with respect to Occupation Health and Safety Legislation and the Health Act regarding the general hygiene

EMPr for the Proposed Expansion at the Supreme Poultry Tigane Processing Plant

Operational Phase	Expansion Alternative 1		No-Go Alternative
	Before Mitigation	After Mitigation	
	odours and how best to prevent said odours from emanating at the facility.		requirements for food premises and the transportation of food.
Significance rating:	M	L	-
Cumulative impact:	-	-	-

Operational Phase	Expansion Alternative 1		No-Go Alternative
	Before Mitigation	After Mitigation	
<b>POTENTIAL IMPACTS ON SOCIO-ECONOMIC ASPECTS:</b>			
<b>Nature of impact:</b> Operation Activities may have a positive impact on the local and regional socio economic conditions.	<b>Activity:</b> During the operational phase of the expansion, it will create employment opportunities for individuals from the surrounding community. The Supreme Poultry Tigane employs a total of 1077 permanent employees and 108 permanent contractors		It is not expected that any additional employment opportunities will be created should the No-Go Alternative take precedence.
Significance rating:	M (+)	-	L (-)
Cumulative impact:	-	-	-
<b>Nature of impact:</b> Occupational Health and Safety.	<b>Activity:</b> During the operational phase, accidents, occupational diseases, ill health and damage to property can occur if pre-cautionary measures are not taken.		Current operational phase impacts are associated with the no-go alternative, thus no assessment has been undertaken.  Currently, the facility is fully compliant with respect to Occupation Health and Safety Legislation.
Significance rating:	M	L	-
Cumulative impact:	-	-	-
<b>Nature of impact:</b> Operation Activities will have a positive impact on local and regional food supply.	<b>Activity:</b> During the operational phase of the expansion, more birds will be slaughtered and therefore an increase in the local and regional food supply. Food security in the area would therefore be improved.		Should the No-Go Alternative take precedence, there would not be an increase in the slaughtering volumes and thus food supply in the area would be infringed upon.
Significance rating:	M (+)	-	L (-)
Cumulative impact:	-	-	-

Operational Phase	Expansion Alternative 1		No-Go Alternative
	Before Mitigation	After Mitigation	
<b>POTENTIAL IMPACTS ON NOISE:</b>			
<b>Nature of impact:</b> Noise nuisance generated by site operations.	<b>Activity:</b> Noise nuisance that may be created by the operation and maintenance work of the Steam Generators, Refrigeration Plant and Sterilizing Plant, trucks and chickens (the facility is situated within the industrial area of (Tigane). An approved SOP (OHSaES 7.8.1.3P) is readily available on-site regarding noise. The SOP states: <i>Machinery will be effectively and sustainably maintained to prevent loose guards, machine parts, etc., from rattling and open-door areas will be fitted with noise screens to prevent and/or mitigate excessive noise being emanated from the plant.</i>  It is therefore not expected that more noise will be generated.		Current operational phase impacts are associated with the no-go alternative, thus no assessment has been undertaken.  Perimeter noise survey conduct on 2 yearly intervals by AIA
Significance rating:	M	L	-

EMPr for the Proposed Expansion at the Supreme Poultry Tigane Processing Plant

<b>Cumulative impact:</b>	-	-	-
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Operational Phase	Expansion Alternative 1		No-Go Alternative
	Before Mitigation	After Mitigation	
<b>POTENTIAL ATMOSPHERIC IMPACT:</b>			
<b>Nature of impact:</b> Emissions from the Processing Plant	<b>Activity:</b> Emissions from the Processing Plant could add to atmospheric pollution.  Regarding stack and exhaust emissions, the approved SOP (OHSaES 7.8.1.11P) states: <i>Correct combustion procedure will be followed to produce a minimum of stacks and exhaust emissions.</i>  <i>Existing measures are as follows:</i> <ol style="list-style-type: none"> <li>a. <i>The maintenance manager &amp; SHE Officer will monitor air pollution control measures. Required planning is recorded on OHSaES 1.01P and OHSaES 7.6.2.2 Plan.</i></li> <li>b. <i>Ensure annual stacking emissions are conducted and recommendations are implemented as identified by AIA</i></li> <li>c. <i>Annual green-house reporting send to Group Quality Manager</i></li> <li>d. <i>Planned maintenance of required equipment as scheduled on PRAGMA system.</i></li> </ol>		Current operational phase impacts are associated with the no-go alternative, thus no assessment has been undertaken.
<b>Significance rating:</b>	<b>M</b>	<b>L</b>	-
<b>Cumulative impact:</b>	-	-	-

Operational Phase	Expansion Alternative 1		No-Go Alternative
	Before Mitigation	After Mitigation	
<b>POTENTIAL IMPACTS ON THE CHICKENS:</b>			
<b>Nature of impact:</b> Humane handling practices.	<b>Activity:</b> Bruises, mortalities, transport and stress associated with the handling of the birds.  It must however be noted that a food safety management system is currently implemented with regards to Animal Welfare and that humane handling practices are in place at the facility.		Current operational phase impacts are associated with the no-go alternative, thus no assessment has been undertaken.
<b>Significance rating:</b>	<b>M</b>	<b>L</b>	-
<b>Cumulative impact:</b>	-	-	-

## 6 RECOMMENDATIONS OF THE EAP

Based on the outcome of the BAR and the Impact assessment, as attached in Appendix F, the EAP has no objections to the proposed project and is of the opinion that an Environmental Authorisation may be provided to the applicant. The following recommendations have been made by the EAP:

1. Currently, 95% of staff at the facility are locally based employees. Furthermore, with the new employment opportunities created, members from the local community must be employed during the operational phase wherever possible; and,
2. The Environmental Management Programme (EMPr) Report should form part of the conditions of approval of this Application.

The Environmental Impact Assessment process has assessed impacts associated with the expansion and determined, based on the outcomes of a multitude of contributing information, that the expansion would not result in any unacceptable impact or fatal flaws and as such may be authorised.

## 7 PERSONS RESPONSIBLE FOR IMPLEMENTING THIS EMPr

The “Responsibility” columns in the impact and mitigation tables provided below indicate which team member(s) are responsible for implementation of the identified mitigation measures; these team members include the following:

- Environmental Auditor;
- Applicant / Developer;
- Operations Manager; and the
- Designated Environmental Officer.

The sections below list further supplementary measures, which must also be implemented by the relevant team members.

During the **operational phase** the **Applicant/Developer** or **Operations Manager**, will be responsible to prevent negative environmental impacts, and as such will be responsible to:

- Set aside a budget for maintenance;
- Maintain all facilities and infrastructure in good working order to effectively fulfil its intended purpose and to prevent negative environmental impacts;

- Not construct any additional buildings, infrastructure, etc. contrary to the Environmental Authorisation, without performing an environmental impact assessment where listed activities of the 2014 NEMA EIA Regulations, as amended are triggered; and,
- To immediately remedy any aspects that contribute to negative environmental impacts.

## **7.1 On-site Communication**

The following sections describe the site communication measures that will need to be implemented.

### **7.1.1 Site Instruction Entries**

The Site Instruction book must be used for the recording of general site instructions as they relate to the works on site. It must additionally be used for the issuing of **stop work orders** for the purposes of immediately halting any particular activities of a contractor or process in lieu of the environmental risk that they may pose.

### **7.1.2 Method Statements**

Method statements from the Applicant / Operations Manager will be required for specific sensitive actions on request by the authorities, the EAP or an Environmental Auditor.

A method statement forms the baseline information on which work in sensitive environments takes place and is a “live document” allowing for modifications to be negotiated between the Applicant / Operations Manager and Environmental Auditor / Engineer, as circumstances unfold.

A method statement describes the scope of the intended work, step-by-step, in order for an Environmental Auditor and Engineer to understand the Applicant’s intentions. This will enable them to assist in devising any mitigation measures, which would minimise environmental impacts during these tasks. For each instance wherein it is requested that the Applicant submit a method statement to the satisfaction of the Environmental Auditor, the format must clearly indicate the following:

- **What** – a brief description of the work to be undertaken;
- **How** – a detailed description of the process of work, methods and materials;
- **Where** – a description/sketch map of the locality of work (if applicable); and
- **When** – the sequencing of actions with due commencement dates and completion date estimates.

All method statements will form part of the EMPr documentation and are subject to all terms and conditions contained within the EMPr main document.

The Applicant must submit the method statement to the Environmental Auditor before any activity is due to start. Work may not commence until the method statement has been approved by the Environmental Auditor.

### **7.1.3 Record Keeping**



All records related to the implementation of this EMPr (e.g. site instruction book, method statements) must be kept together in an office where they are safe and can be retrieved easily. These records must be kept for two years and must at any time be available for scrutiny by any relevant authorities.

## **7.2 Monitoring**

Several monitoring actions are proposed which would be undertaken by various project role players. For detail on these actions, “Responsible Person/Party”, and “Monitoring Frequency” associated with the identified mitigation measures, refers to the “Monitoring” column in the impact assessment below (Chapter 9).

## **7.3 Performance Assessment and Reporting on EMPr Compliance**

A suitably qualified Environmental Auditor must be appointed by the Applicant/Developer to oversee the implementation of the operational phase mitigation measures described in this EMPr, as well as the conditions of authorisation as described in the Environmental Authorisation.

The Environmental Auditor may not be someone appointed by a contractor, engineer or other party involved with this project, other than the Applicant / Developer.

The following applies, amongst others, to the Environmental Auditor’s role:

- The Environmental Auditor must report to the Applicant/Developer only;
- Once the proposed expansion occurs, an environmental audit must be undertaken by the Environmental Auditor, before commencement of the operational phase, in order to determine compliance with the EMPr and the Environmental Authorisation. The audit report must be submitted to the Competent Authority; and,
- The Environmental Auditor must undertake one **annual** site visit during the **Operational Phase** of the project.

The Environmental Auditor can recommend the stopping of works if in his/her opinion there is a serious threat to, or impact on the environment, caused directly from the operations. This authority is to be limited to emergency situations where consultation with the Applicant or Operations Manager is not immediately available. In all such work stoppage situations the Environmental Auditor is to inform the Applicant and Operations Manager of the reasons for the stoppage as soon as possible.

Upon failure by the Applicant or Operations Manager or his employee(s) to show adequate consideration to the environmental aspects of this contract, the Environmental Auditor may recommend to the Operations Manager to have a representative or any employee(s) removed from the site or work suspended until the matter is remedied.

### **7.3.1 Photographs**

It is recommended that photographs are taken of the site prior to, during and immediately after expansion as a visual reference. These photographs must be stored with other records related to this EMPr. If captured in digital format, hard copies, in colour, must be kept with all other records relevant to the implementation of this EMPr.

## 8 ENVIRONMENTAL AWARENESS PLAN

### 8.1 Environmental Awareness and Risk Training

All employees and sub-contractor team members involved in work on site are to be briefed on their obligations towards environmental controls and methodologies in terms of this EMPr, prior to work commencing. The education/awareness programme must be aimed at all levels of management within the team. See “basic rules of conduct” below.

#### 8.1.1 Basic Rules of Conduct

The following list represents the basic *Do's* and *Don'ts* towards environmental awareness, which all participants in this project must consider whilst carrying out their tasks. These are not exhaustive and serve as a quick reference aid.

**NOTE: ALL new site personnel must** attend an environmental awareness/induction presentation. Please inform your foreman or manager if you have not attended such a presentation or contact the EAP/Environmental Auditor.

#### DO:

- Clear your work areas of litter at the end of each day – use the waste bins provided and prevent litter from being blown away by wind.
- Report all fuel or oil spills immediately and stop the spill from continuing.
- Dispose of cigarettes and matches carefully, so to prevent veld fires (arson and littering is an offence).
- Confine work and storage of equipment to within the immediate work area.
- Use all safety equipment and comply with all safety procedures.
- Ensure a working fire extinguisher is immediately at hand if any “HOT WORK” is undertaken e.g. welding, grinding, gas cutting etc.
- Prevent excessive dust and noise.

#### DO NOT:

- Damage any vegetation outside of the development footprint.
- Do not litter - report dirty or full facilities, i.e. full dustbins and dirty or blocked toilets.
- Do not make any fires.
- Do not enter any fenced off or demarcated areas.
- Do not allow waste, litter, oils or foreign materials into any storm water channels or drains or watercourses.
- Do not litter or leave food lying around.

## **9 IMPACTS AND MITIGATION MEASURES**

A number of potential environmental impacts that may arise during the Operational Phase have been identified. These are outlined in the following table below, and guidelines and mitigation measures are provided. The Applicant and Operations Manager must familiarise himself/herself with the requirements of the EMPr, keeping in mind that other site-specific requirements as outlined in the Environmental Authorisation must also be complied with.

### 9.1 Construction Phase Environmental Management Programme

The expansion of the facility does not involve any construction or excavations and therefore the proposed impacts for the Planning/Construction Phase were not assessed.

### 9.2 Operational Phase Environmental Management Programme

The intention of providing an EMPr for the operational phase is to provide guidelines for management of facilities and infrastructure to safeguard the environment against negative environmental impacts.

OPERATIONAL PHASE: EXPANSION OF THE SUPREME POULTRY CHICKEN PROCESSING PLANT FROM 120 000 UNITS TO 140 000 UNITS PER DAY ON PORTION 0 OF ERF 166, BOTSHABELO, FREE STATE PROVINCE		RESPONSIBLE PARTY/PERSON (implementation of mitigation measures)	MONITORING: ACTION, RESPONSIBLE PERSON/PARTY AND FREQUENCY	COMPLIANT? (for use by Environmental auditor)
1. <b>ACTIVITY:</b> OPERATIONAL PHASE IMPACTS				
1.0	<p><b>Aspects:</b> Legislative compliance.</p> <p><b>Impact:</b> Non-compliance with South African environmental legislation.</p> <p><b>Objective:</b> Ensure compliance with all triggered environmental legislation.</p> <p><b>Target:</b> Commence site establishment with all permission and approvals received and on hand.</p> <p><b>Mitigation/Management Measures:</b></p> <p>a. The Applicant is to have the following permits on expansion commencement:</p> <ul style="list-style-type: none"> <li>• Environmental Authorisation;</li> <li>• Waste Management Licence;</li> <li>• EMPr</li> </ul> <p>b. Environmental file should be kept on site and regularly updated, with amongst others, but not limited to:</p> <ol style="list-style-type: none"> <li>i. Internal and external audit reports</li> <li>ii. Monitoring reports</li> </ol>	Applicant	<p><b>Monitoring Action:</b></p> <p>Obtain copies of all permits; Record Keeping</p> <p><b>Responsible Person/Party:</b></p> <p>The Applicant</p> <p><b>Monitoring Frequency:</b></p> <p>Once off</p>	

OPERATIONAL PHASE: EXPANSION OF THE SUPREME POULTRY CHICKEN PROCESSING PLANT FROM 120 000 UNITS TO 140 000 UNITS PER DAY ON PORTION 0 OF ERF 166, BOTSHABELO, FREE STATE PROVINCE		RESPONSIBLE PARTY/PERSON (implementation of mitigation measures)	MONITORING: ACTION, RESPONSIBLE PERSON/PARTY AND FREQUENCY	COMPLIANT? (for use by Environmental auditor)
	<ul style="list-style-type: none"> <li>iii. Complaints register</li> <li>iv. Site and operational permits and licences</li> <li>v. Waste register</li> <li>vi. Safe disposal slips</li> <li>vii. Incident register</li> <li>viii. Incident reports</li> <li>ix. Standard Operating Procedures</li> <li>x. Method Statements.</li> </ul>			
1.1	<p><b>Aspects:</b> Noise Generation.</p> <p><b>Impact:</b> Noise nuisance from maintenance work.</p> <p><b>Objective:</b> To avoid excessive noise generation from maintenance work.</p> <p><b>Mitigation/Management Measures:</b></p> <ul style="list-style-type: none"> <li>a. Machinery must be in sound mechanical condition and equipped with the necessary silencers;</li> <li>b. Workers on site must adhere to the prescribed working hours (7am – 6pm);</li> <li>c. Ensure that staff conduct themselves in an acceptable manner while on site, both during working hours and after hours; and,</li> <li>d. No loud music will be permitted on site.</li> </ul>	Applicant	<p><b>Monitoring Action:</b></p> <p>Applicant to adhere to business working hours.</p> <p><b>Responsible Person/Party:</b></p> <p>Applicant</p>	
1.2	<p><b>Aspects:</b> Increased risk of fires due to the undertaking of maintenance and hot works or personnel and electrical equipment presence on site</p>	Applicant	<p><b>Monitoring Action:</b></p> <p>Maintenance</p>	

<p style="text-align: center;"><b>OPERATIONAL PHASE: EXPANSION OF THE SUPREME POULTRY CHICKEN PROCESSING PLANT FROM 120 000 UNITS TO 140 000 UNITS PER DAY ON PORTION 0 OF ERF 166, BOTSHABELO, FREE STATE PROVINCE</b></p>		<p style="text-align: center;"><b>RESPONSIBLE PARTY/PERSON (implementation of mitigation measures)</b></p>	<p style="text-align: center;"><b>MONITORING: ACTION, RESPONSIBLE PERSON/PARTY AND FREQUENCY</b></p>	<p style="text-align: center;"><b>COMPLIANT? (for use by Environmental auditor)</b></p>
<p><b>Impact:</b> Due to maintenance hot works that may need to be performed at the Processing Plant, fires can occur if not managed to the correct standard. Furthermore, due to the operational nature of the facility, and the possible occurrence of electrical faults, fires may occur at the Processing Plant. Finally, the risk associated with fires is increased due to the presence of employees who smoke on site.</p> <p><b>Objective:</b> Ensure no loss of resources due to fires.</p>		<p>Contractor or employee Checklist, Annual Environmental Audit Checklist and regular inspections.</p>		
<p><b>Mitigation/Management Measures:</b></p> <ol style="list-style-type: none"> <li>a. Ensure that the area where maintenance hot works are conducted is equipped with adequate firefighting equipment. This includes at least a fire extinguisher of the appropriate type irrespective of the site;</li> <li>b. Maintenance personnel must be adequately trained in the handling of firefighting equipment, and can include but is not limited to:               <ul style="list-style-type: none"> <li>➤ Regular fire prevention talks and drills;</li> <li>➤ Posting of regular reminders to staff;</li> </ul> </li> <li>c. Do not store any flammable materials anywhere near where the hot works are to be undertaken;</li> <li>d. In the event of a fire, the maintenance Contractor shall immediately employ such plant and personnel as is at his disposal and take all necessary action to prevent the spread of the fire and bring the fire under control;</li> <li>e. Hot works must be restricted to an area approved by the landowner as well as the maintenance contractor.</li> <li>f. Regular inspections of the existing infrastructure must be performed in order to prevent any electrical faults that may occur;</li> <li>g. No open fires, or “braais”, are allowed anywhere on site;</li> <li>h. A designated smoking area must be established more than 6m away from operational areas and any hazardous chemical storage area. Fuel, diesel, oil, or any other flammable substance must be stored 6m away from the smoking area;</li> </ol>		<p><b>Responsible Person/Party:</b> DEO &amp; Operations Manager</p> <p><b>Monitoring Frequency:</b> Once maintenance activities are conducted.</p>		

OPERATIONAL PHASE: EXPANSION OF THE SUPREME POULTRY CHICKEN PROCESSING PLANT FROM 120 000 UNITS TO 140 000 UNITS PER DAY ON PORTION 0 OF ERF 166, BOTSHABELO, FREE STATE PROVINCE		RESPONSIBLE PARTY/PERSON (implementation of mitigation measures)	MONITORING: ACTION, RESPONSIBLE PERSON/PARTY AND FREQUENCY	COMPLIANT? (for use by Environmental auditor)
	i. Smoking may only occur within a 3m radius from the established designated smoking areas.			
1.3	<p><b>Aspects:</b> Handling of general – and hazardous waste materials on the developed site.</p> <p><b>Impact:</b> Due to increase in slaughtering volumes and more employees, waste will be generated on site.</p> <p><b>Objective:</b> Management and disposal of general- and hazardous waste in an appropriate manner.</p> <p><b>Mitigation/Management Measures:</b></p> <ul style="list-style-type: none"> <li>a. Waste must not be stored on site in excess of ninety (90) days;</li> <li>b. All general waste, not recycled or processed at the facility, must be disposed of at a registered landfill site as mentioned in the application form;</li> <li>c. An adequate number of scavenger proof litter bins are to be placed throughout the site. Two (2) waste bins at least must be present, one (1) for hazardous waste and one (1) for non-hazardous waste at each operational site. Dumping of waste on site is prohibited;</li> <li>d. Waste sorting and separation must form part of the environmental induction and awareness programme, to encourage personnel to collect wastepaper, glass and metal waste separately;</li> <li>e. Keep all work sites including storage areas, offices and workshops neat and tidy;</li> <li>f. Dedicate a demarcated and signposted storage area on site for the collection of waste;</li> <li>g. All domestic waste is to be removed from site and disposed of at a registered solid waste landfill site as mentioned in the Basic Assessment Report;</li> <li>h. Care must be taken to ensure that no waste spill from the disposal vehicles on-route to the landfill. If needed, a tarpaulin can be utilised;</li> <li>i. The burning or burying of solid waste on site is prohibited. Do not burn PVC pipes or other plastic materials, as this is regarded as hazardous waste;</li> </ul>	Applicant	<p><b>Monitoring Action:</b> Regular inspection.</p> <p><b>Responsible Person/Party:</b> Applicant and Operations Manager</p> <p><b>Monitoring Frequency:</b> Monthly</p>	

<b>OPERATIONAL PHASE: EXPANSION OF THE SUPREME POULTRY CHICKEN PROCESSING PLANT FROM 120 000 UNITS TO 140 000 UNITS PER DAY ON PORTION 0 OF ERF 166, BOTSHABELO, FREE STATE PROVINCE</b>		<b>RESPONSIBLE PARTY/PERSON (implementation of mitigation measures)</b>	<b><u>MONITORING:</u> ACTION, RESPONSIBLE PERSON/PARTY AND FREQUENCY</b>	<b>COMPLIANT? (for use by Environmental auditor)</b>
	<ul style="list-style-type: none"> <li>j. Littering by personnel shall not be permitted;</li> <li>k. General refuse/rubbish shall be removed from site on a weekly basis to an approved registered landfill site or as soon as the waste bins are reaching full capacity;</li> <li>l. Minimise waste by sorting different waste streams into recyclable and non-recyclable waste;</li> <li>m. Hazardous waste must be sorted from non-hazardous waste and disposed of at a hazardous treatment facility, records and proof of disposal must be kept;</li> <li>n. A register must be kept of the quantities of waste disposed and proof of disposal (safe disposal slips or certificates) must be available at the site office.</li> <li>o. All biological material not used after cutting, or collected from the sieves (feathers, fat, blood) after slaughtering, as well as Dead-on Arrival Birds delivered to the facility, must be collected and processed at the Sterilizing Plant accordingly. The resulting Feather meal will then be sold to prospective clients.</li> </ul>			
1.4	<p><b><u>Aspects:</u></b> Traffic.</p> <p><b><u>Impact:</u></b> Traffic impacts associated with the movement of vehicles within the area.</p> <p><b><u>Objective:</u></b> Non-disturbance of current traffic volumes and routes.</p>	Applicant	<p><b><u>Monitoring Action:</u></b></p> <p>Incident Register; Photographs; Audit Checklist</p> <p><b><u>Responsible Person/Party:</u></b></p> <p>Applicant</p>	
	<p><b><u>Mitigation/Management Measures:</u></b></p> <ul style="list-style-type: none"> <li>a. All speed limits need to be adhered to;</li> <li>b. Abnormal loads must be timed to avoid times of year when traffic volumes are likely to be higher, as would be expected over national holidays, weekends and school holiday periods;</li> <li>c. Any damage to public roads is to be reported to the management Authority and repaired to its original condition; and,</li> <li>d. Abnormal loads may not be transported after dark</li> </ul>			



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			<p><b>Monitoring</b></p> <p><b>Frequency:</b> Annual</p>	
1.5	<p><b>Aspects:</b> Waste, Emissions and Odour Handling.</p> <p><b>Impact:</b> Pollution of environment with waste materials.</p> <p><b>Objective:</b> Appropriate management of waste.</p> <p><b>Mitigation/Management Measures:</b></p> <p>a. Provide adequate waste bins on-site equipped with a lid to ensure no pollution;</p> <p>b. General waste must be collected in containers disposed of bi-monthly at the nearest permitted Municipal landfill site;</p> <p>c. Recyclable waste must be recovered for recycling purposes;</p> <p>d. Establish a meteorological database which record the wind, rain and temperatures;</p> <p>e. Establish odour complaint sheet and log every day where applicable; and,</p> <p>f. The approved Standard Operating Procedure (Document No.: OHSaES 7.8.1.11P) currently implemented at the facility must be complied with at all times regarding Stack emission and odour management. This includes:</p> <p>a. <b>Stack emissions:</b> Correct combustion procedure will be followed to produce a minimum of stack emissions.</p> <p>b. <b>Odours:</b> Odours being emanated from the factory will be prevented by:</p> <p>i. By having all waste removed at regular intervals as to prevent it from accumulating and decomposing on site.</p> <p>ii. Where possible all effluent and sanitary drains will be covered with a solid type cover/lid.</p> <p>iii. In the case of animal matter being processed it must be processed per day. In cases where it has to stand over for longer than a day, it must be effectively covered as to limit emanating of odours. Should</p>	Applicant	<p><b>Monitoring Action:</b></p> <p>Monitoring of Environmental Management Plan and implementation thereof</p> <p><b>Responsible Person/Party:</b></p> <p>Applicant</p> <p><b>Monitoring Frequency:</b></p> <p>Throughout the life span of the facility</p>	

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	<p>this not be possible, the animal matter must be immediately disposed of and treated in an appropriate manner at a landfill registered for this purpose.</p> <p>iv. In the case of effluent treatment systems, it must be ensured that the effluent is treated with recognisable chemical substances as to prevent odours. Where possible, exposed effluent to be covered effectively with a canvas or lid.</p>			
1.6	<p><b>Aspects:</b> Surface water, groundwater and/or existing storm water systems.</p> <p><b>Impact:</b> Degradation of water resources.</p> <p><b>Objective:</b> Ensure the proper working status of all storm water channels.</p>	Applicant	<p><b><u>Monitoring Action:</u></b> Stormwater monitoring records</p> <p><b><u>Responsible Person/Party:</u></b> Applicant</p> <p><b><u>Monitoring Frequency:</u></b> Throughout the life span of the activity</p>	
	<p><b><u>Mitigation/Management Measures:</u></b></p> <p>a. Measures must be implemented to prevent the contamination of clean run-off from the site in order to protect the degradation of the drainage areas;</p> <p>b. Stormwater must be conducted in a manner which prevent soil erosion (i.e. natural areas must be landscaped in order to ensure energy is removed from run-off);</p> <p>c. Stormwater control should be done by cleaning and repairing the pipelines when necessary;</p> <p>d. Drip trays must be placed beneath all stationary operational equipment;</p> <p>e. Hazardous substances must be stored within a bund area able to contain 110% of the volume of the substance stored within;</p> <p>f. Should a spill occur on an impermeable surface such as cement or concrete, the surface spill must be contained using oil absorbent materials;</p>			

OPERATIONAL PHASE: EXPANSION OF THE SUPREME POULTRY CHICKEN PROCESSING PLANT FROM 120 000 UNITS TO 140 000 UNITS PER DAY ON PORTION 0 OF ERF 166, BOTSHABELO, FREE STATE PROVINCE		RESPONSIBLE PARTY/PERSON (implementation of mitigation measures)	MONITORING: ACTION, RESPONSIBLE PERSON/PARTY AND FREQUENCY	COMPLIANT? (for use by Environmental auditor)
	<p>g. Adhere to all regulations, management plans, method statements, standard operating procedures and guidelines with regards to the storage, management, treatment and use of water; and,</p> <p>h. No water containing waste may enter any of the watercourse systems directly.</p>			
1.7	<p><b>Aspects:</b> Water Conservation (Reservoirs).  <b>Impact:</b> Wasting water as a result of negligence.  <b>Objective:</b> Promote and implement water use efficiency mechanisms.</p> <p><b>Mitigation/Management Measures:</b></p> <p>a. Re-use water were possible;                      b. Implement rain catchment strategies;                      c. Prevent leakages at taps and hoses by means of maintenance;                      d. Capture and reuse stormwater runoff for site cleaning and truck washing;                      e. Make sure that sediment, concrete, sand and rubbish does not end up going down the stormwater drain. Cover or filter stormwater inlets and drains; and,                      f. Require workers to use a broom rather than a hose to clean paths and gutters. If water use is necessary, use high pressure hoses which are both water efficient and more effective cleaners.</p>	Applicant	<p><b>Monitoring Action:</b> Monitoring of water conservation measures.</p> <p><b>Responsible Person/Party:</b> Applicant</p> <p><b>Monitoring Frequency:</b> Throughout the life span of the activity</p>	
1.8	<p><b>Aspects:</b> Health and Safety.  <b>Impact:</b> Dangerous working conditions for workers.  <b>Objective:</b> To prevent any casualties on site.</p> <p><b>Mitigation/Management Measures:</b></p> <p>a. Ensure that PPE is available to Personnel;</p>	Applicant and Health and Safety Representative	<p><b>Monitoring Action:</b> Incident Register; Photographs; Audit Checklist</p>	

<b>OPERATIONAL PHASE: EXPANSION OF THE SUPREME POULTRY CHICKEN PROCESSING PLANT FROM 120 000 UNITS TO 140 000 UNITS PER DAY ON PORTION 0 OF ERF 166, BOTSHABELO, FREE STATE PROVINCE</b>		<b>RESPONSIBLE PARTY/PERSON (implementation of mitigation measures)</b>	<b>MONITORING: ACTION, RESPONSIBLE PERSON/PARTY AND FREQUENCY</b>	<b>COMPLIANT? (for use by Environmental auditor)</b>
	<ul style="list-style-type: none"> <li>b. Adhere to the Occupational Health and Safety Act;</li> <li>c. Keep the first aid kit stocked;</li> <li>d. Issue all workers with necessary health and safety items;</li> <li>e. Potentially hazardous areas must be demarcated with danger tape;</li> <li>f. Appropriate signage must be placed to caution employees and contractors not to enter certain structures without authorisation;</li> <li>g. Regular safety inspections must be conducted to ensure that participants are equipped with necessary safety equipment;</li> <li>h. All personnel to wear hard hats and reflector jackets at all times; and,</li> <li>i. Teach the workforce how to act should someone ingest poison accidentally.</li> </ul>		<p><b>Responsible Person/Party:</b> Applicant and Health and Safety Representative</p> <p><b>Monitoring Frequency:</b> Bi-Monthly</p>	
1.9	<p><b>Aspects:</b> Pesticides to control pests such as flies and rodents.</p> <p><b>Impact:</b> The Processing Plant will use pesticides (e.g. organic compounds and organo-metallic compounds) to control flies, rodents, and vermin to prevent diseases (flies are carriers of diseases such as <i>Salmonella</i>, <i>Escherichia coli</i> as well as <i>Streptococcus</i> and <i>Staphylococcus</i>).</p> <p><b>Objective:</b> Ensure the safe application and use of pesticides on site.</p>	Applicant	<p><b>Monitoring Action:</b> Regular inspection of all infrastructure on site.</p> <p><b>Responsible Person/Party:</b> Applicant, pest management subcontractor and Auditor</p>	
	<p><b>Mitigation/Management Measures:</b></p> <ul style="list-style-type: none"> <li>a. Flies must be controlled on a daily basis, where motorized spraying will be used in and around the processing facility with a substance such as larvicide, deltamethrin or any other substance which is registered should it become necessary;</li> <li>b. The best method is to identify larvae “hot spots” and to do spot application;</li> <li>c. All spraying events must be recorded in a book for record purposes and a map must be drawn up of these larvae “hot spots”;</li> </ul>			

<p><b>OPERATIONAL PHASE: EXPANSION OF THE SUPREME POULTRY CHICKEN PROCESSING PLANT FROM 120 000 UNITS TO 140 000 UNITS PER DAY ON PORTION 0 OF ERF 166, BOTSHABELO, FREE STATE PROVINCE</b></p>	<p><b>RESPONSIBLE PARTY/PERSON (implementation of mitigation measures)</b></p>	<p><b>MONITORING: ACTION, RESPONSIBLE PERSON/PARTY AND FREQUENCY</b></p>	<p><b>COMPLIANT? (for use by Environmental auditor)</b></p>
<p>d. Biological control can also be contemplated but this method has proven to have its share of practical problems at larger facilities which must be taken into consideration properly (e.g. Biofly, Kunafin etc.);</p> <p>e. Ensure that a pest control checklist has been set up, which will be applied once a month as an audit, where after the results will be reported to the operations manager, who will report the finding to the applicant and the Authorities, if requested;</p> <p>f. A framework and ground plan must be set up by the Pest Control Employee and the Auditor that will include the type of bait used, the targeted pest and the method (spaying etc.) applied at each baiting station;</p> <p>g. A status report should be kept at each station that will include the following:</p> <ul style="list-style-type: none"> <li>a. Pest;</li> <li>b. Type of bait used;</li> <li>c. Volumes/ mass of the bait;</li> <li>d. The method of bait application;</li> <li>e. Success rate (e.g. none, mild, good);</li> <li>f. Concentration;</li> <li>g. Date of visit/ replenishment;</li> <li>h. Circumstances (wet/ dry or indoors/ outdoors);</li> <li>i. Description of the location; and,</li> <li>j. The incidents.</li> </ul> <p>h. Ensure that wet- and dry chemicals are locked up separately, where a register must be in place at the storeroom which must record the daily income of new poison and removals for use;</p> <p>i. Use prescribed baiting boxes, do not scatter the bait openly;</p>		<p><b>Monitoring</b></p> <p><b>Frequency:</b></p> <p>Daily</p>	

<b>OPERATIONAL PHASE: EXPANSION OF THE SUPREME POULTRY CHICKEN PROCESSING PLANT FROM 120 000 UNITS TO 140 000 UNITS PER DAY ON PORTION 0 OF ERF 166, BOTSHABELO, FREE STATE PROVINCE</b>		<b>RESPONSIBLE PARTY/PERSON (implementation of mitigation measures)</b>	<b><u>MONITORING:</u> ACTION, RESPONSIBLE PERSON/PARTY AND FREQUENCY</b>	<b>COMPLIANT? (for use by Environmental auditor)</b>
	<ul style="list-style-type: none"> <li>j. Replenish bait stations until bait is taken no more;</li> <li>k. Dispose of uneaten bait in accordance to general norms and standards;</li> <li>l. Empty containers must be returned to the supplier if possible;</li> <li>m. Ensure that the live bird delivery and slaughtering areas are clean and dry, as it will reduce flies and rodents; and,</li> <li>n. Ensure rodent control by:                             <ul style="list-style-type: none"> <li>a. Ensuring good sanitation;</li> <li>b. Storing foodstuff (workforce) in appropriate containers;</li> <li>c. Seal cracks found in the foundation;</li> <li>d. Seal all holes where pipes pass through exterior walls;</li> <li>e. Remove grass and/ or rubble from the perimeter of the buildings;</li> <li>f. Maintain good drainage;</li> <li>g. Ensure that no standing water is present;</li> <li>h. Ensure watertight taps; and,</li> </ul> </li> </ul> <p>Do mechanical trapping as far as possible at critical points (e.g. feedstore).</p>			
1.10	<p><b>Aspects:</b> Humane handling practices.</p> <p><b>Impact:</b> Bruises, mortalities, transport and stress associated with the handling of chickens.</p> <p><b>Objective:</b> Ensure the safety and health of the chickens.</p>	Applicant	<p><b><u>Monitoring Action:</u></b> Incident Register; Photographs; Audit Checklist</p> <p><b><u>Responsible Person/Party:</u></b></p>	
	<p><b><u>Mitigation/Management Measures:</u></b></p> <ul style="list-style-type: none"> <li>a. A standard form, which records the date and place of origin, should be used to list typical forms of bruises;</li> <li>b. Ensure that overloading of chickens does not take place, as this is the main reason why bruising and stress of chickens occurs;</li> </ul>			

<b>OPERATIONAL PHASE: EXPANSION OF THE SUPREME POULTRY CHICKEN PROCESSING PLANT FROM 120 000 UNITS TO 140 000 UNITS PER DAY ON PORTION 0 OF ERF 166, BOTSHABELO, FREE STATE PROVINCE</b>		<b>RESPONSIBLE PARTY/PERSON (implementation of mitigation measures)</b>	<b><u>MONITORING:</u> ACTION, RESPONSIBLE PERSON/PARTY AND FREQUENCY</b>	<b>COMPLIANT? (for use by Environmental auditor)</b>
	<p>c. Daily checks must be conducted during loading and transport to ensure that chickens have received food and water and to make sure the containers are up to standard;</p> <p>d. Good transportation and handling must be in place to ensure that the chickens are not stressed;</p> <p>e. Ensure regular inspection and training; handlers must be emotionally stable and not vent their anger/ frustrations on the animals; and,</p> <p>f. The food safety management system currently implemented with regards to Animal Welfare and the humane handling practices must be complied with at all times.</p>		<p>Applicant and Auditor</p> <p><b><u>Monitoring Frequency:</u></b> Throughout the life span of the activity</p>	
1.11	<p><b><u>Aspects:</u></b> Pathogens due to the handling and processing of carcasses of the chickens.</p> <p><b><u>Impact:</u></b> The carcasses of the chickens can be a source of odours, flies and diseases if not managed correctly.</p> <p><b><u>Objective:</u></b> Ensure the safety and health of both the personnel and chickens on site.</p>	Applicant	<p><b><u>Monitoring Action:</u></b> Incident Register; Photographs; Audit Checklist</p> <p><b><u>Responsible Person/Party:</u></b> Applicant and Operations Manager</p> <p><b><u>Monitoring Frequency:</u></b> Weekly</p>	
	<p>a. The amount of Dead on Arrival Birds and the information regarding the cause of the deaths should be recorded regularly and should provide a good index of the status of the environmental health at the Processing Plant;</p> <p>b. A veterinarian must inspect chickens for disease that may be contagious. Should this occur, no animals may be transported and all veterinarian precautionary measures must be applied to ensure containment/ confinement of the disease; and,</p> <p>c. The food safety management system that is currently implemented must be complied with at all times.</p>			

### **9.3 Impacts during the Decommissioning Phase**

It is not anticipated that the Processing Plant will be decommissioned in the near future and therefore the proposed impacts therefore were not assessed.



## 10 EMERGENCY RESPONSE PLAN

The following table is provided to assist the Auditor and Operations Manager with remedial work options and problem solving:

Observation or Event	Action by Inspector or Observer	Action by Construction Contractor
<b>Spillage of diesel or hydrocarbons on soil</b>	Report to construction Contractor and continue observations.  Also check: <ul style="list-style-type: none"> <li>➤ That the source causing the spillage has ceased, and that the affected area is isolated to prevent spreading of the hazardous substance, where after it must be rehabilitated.</li> </ul>	Action will be required as soon as possible (ASAP) by following the next steps: <ul style="list-style-type: none"> <li>➤ Dig down into the soil to see how far down the pollution penetrated,</li> <li>➤ If less than 300mm penetrated:               <ol style="list-style-type: none"> <li>a. Turn the soil over to expose it to the air.</li> <li>b. Apply Mono Ammonium Phosphate (MAP) at a rate of 58gr/m<sup>2</sup> to the overturned soil.</li> <li>c. Water enough to keep the soil moist.</li> </ol> </li> <li>➤ If penetration is greater than 300mm:               <ol style="list-style-type: none"> <li>a. Remove the affected soil and spread in a layer not more than 300mm thick.</li> <li>b. Apply MAP at a rate of 50gr/m<sup>2</sup>.</li> <li>c. Water enough to keep the soil moist.</li> </ol> </li> <li>➤ Repeat the above steps every 6 weeks or until the soil is clean.</li> </ul>
<b>Erosion</b>	Report to construction contractor and continue observations.  Also check: <ul style="list-style-type: none"> <li>➤ That all vehicular movement is restricted to existing access routes to prevent crisscrossing of tracks through undisturbed areas.</li> </ul>	Action will be required ASAP: <ul style="list-style-type: none"> <li>➤ Implement erosion protection works at identified problem areas.</li> <li>➤ Implement remedial works at affected areas in order to restore the area to its previous or better status.</li> </ul>

**11 INCIDENT REGISTER**

<b>INCIDENT REGISTER: THE PROPOSED EXPANSION OF THE SUPREME POULTRY CHICKEN PROCESSING PLANT FROM 120 000 UNITS TO 140 000 UNITS PER DAY ON PORTION 0 OF ERF 166, BOTSHABELO, FREE STATE PROVINCE</b>					
<b>NAME OF PERSON REPORTING THE INCIDENT</b>	<b>INCIDENT</b>	<b>DATE OF INCIDENT IDENTIFIED</b>	<b>HOW WAS INCIDENT ADDRESSED?</b>	<b>DATE OF RECTIFICATION</b>	<b>SIGNATURE</b>

## 12 REHABILITATION MEASURES AND CLOSURE PLAN

The rehabilitation phase follows completion of any construction works which may occur in the future (not anticipated as part of this application and project description), and entails site clean-up and site rehabilitation following the removal of a Contractor from site. The underlying aim of rehabilitation is the process of returning land within the site boundary to some degree of its former natural state.

Key aspects within this process include the:

- Removal of structures and infrastructure;
- Handling of inert waste and rubble;
- Handling of hazardous waste and pollution control;
- Final shaping of the terrain;
- Topsoil replacement and soil amelioration;
- Ripping and scarifying of surfaces;
- Planting of indigenous occurring vegetation (if deemed necessary); and,
- Maintenance.

### 12.1 Rehabilitation Measures

Removal of structures and infrastructure
<ul style="list-style-type: none"> <li>• On completion of a section of works, the area must be rehabilitated by suitable landscaping, levelling, topsoil dressing, land preparation, alien plant eradication and where ascribed for by the Environmental Auditor, vegetation establishment;</li> <li>• Clear and completely remove from site all construction structures and temporary infrastructure;</li> <li>• All permanent infrastructure must be returned to a useable state.</li> </ul>
Inert waste and rubble
<ul style="list-style-type: none"> <li>• Remove all inert waste and rubble, such as excess rock, any structural foundations and remaining aggregates. Only once this material has been removed, the site shall be re-instated and rehabilitated;</li> <li>• All rubble and litter should be cleared from the site and stored in designated waste bins and/or stockpile areas respectively;</li> <li>• The principle of reduce, re-use and recycle should be followed;</li> <li>• No dirty water runoff from the construction and decommissioning site must be permitted to reach the watercourses around the proposed site;</li> <li>• Domestic waste must be completely removed from the site and disposed of at a landfill site.</li> </ul>
Topsoil replacement and soil amelioration
<ul style="list-style-type: none"> <li>• The reinstatement of disturbed areas must follow immediately after the removal of structures and temporary infrastructure;</li> <li>• Topsoil backfilling must be undertaken when the soil is dry, and not following any recent rainfall events;</li> </ul>

- The replacement of topsoil must be sought in situ with construction where possible, or as soon as construction in an area has been completed;
- All stockpiled topsoil together with herbaceous vegetation must be replaced and redistributed over a disturbed area such as temporary access roads;
- Topsoil must be returned to the same site from where it was stripped;
- When insufficient topsoil remains, soil of a similar quality can be obtained from a nearby area within the construction area which was disturbed;
- Once topsoil has been returned to the ground, stripped vegetation must be randomly spread by hand over the area.

### Maintenance

- Construction activities should be limited to the smallest possible area;
- Construction vehicles should use existing authorized service roads;
- Implement suitable alien invasive species establishment prevention measures during the construction phase such as proper storage, transport and disposal of plant material and minimizing disturbance to the areas surrounding the development footprint;
- Alien invasive vegetation material cleared during and after construction activities must be adequately contained and disposed of at a suitable, certified 'green waste' disposal site to prevent further spreading;
- All re-growth of invasive vegetative material will be monitored by the Developer for one year;
- All areas under rehabilitation are to be treated as no-go areas using danger tape and steel droppers/fencing and cornered off, to prevent vehicular, pedestrian and livestock access;
- Any re-vegetation must be done using plant species in occurrence on site;
- Control invasive plant species and weeds using approved methods of manual or chemical intervention;
- The re-establishment of vegetation must be allowed several rainy seasons, given the nature of the climate and region.