

Recommendations for Odour Management

for

VAL GRAIN (PTY) LTD

GROOTPAN

Prepared by:

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1. DETAILED DESCRIPTION OF PROPOSED PROJECT

Val Grain Co is proposing the construction of 12 environmentally controlled poultry houses with the capacity for 50 000 chickens per house on Portion 3 of the farm Grootpan 591 IR situated near Val within Lekwa Local Municipality area.

2. OBJECTIVES OF ODOUR CONTROL

a) To prevent or minimize ambient air pollution as a result of odour emissions.

3. ODOUR CONTROL MANAGEMENT MEASURES

a) The houses are closed and semi - environmentally controlled to reduce the amount of ammonia, dust and unpleasant odour released into the environment.

b) After the completion of each cycle, all chickens are caught and the manure and litter are then scooped up using a bobcat. The manure is loaded onto a closed truck and taken to agricultural fields, owned by the applicant, where it is used as fertiliser. After removal, all surfaces are disinfected and sanitised by spraying them with an ecologically friendly foam-based detergent (F29) that is left to evaporate. Upon completion of this process, the floors of the houses are washed (using 16 bar pressure washers) with water only that will be allowed to soak into the soil surrounding the facility. This water is not contaminated as the houses are disinfected and sanitised before being sprayed down.

c) Any mortalities are to be removed on a daily basis and collected by a contractor.

d) Manure will be removed after each cycle and used on the applicant's agricultural fields as fertilizer.

1. IMPACT SPECIFIC MITIGATION MEASURES RELATED TO ODOUR CONTROL

Specific impact or risk	Mitigation measures
Pollution of soil, surface water and groundwater due to ineffective management of sewage and general waste management.	Proper ablution facilities must be provided i.e. chemical toilets at appropriate locations on site if necessary or existing facilities must be used. Workers must be made aware of the risk of soil water contamination. Domestic waste must be disposed of in appropriate containers, and removed to the nearest municipal waste-disposal site as part of existing waste management system.
Pollution of soil, surface water and groundwater due to ineffective manure disposal.	After the completion of each cycle, all chickens are caught and the manure and litter are then scooped up using a bobcat. The manure is loaded onto a closed truck and taken to agricultural fields, owned by the applicant, where it is used as fertiliser.
Pollution of soil, surface water and groundwater due to ineffective disposal of mortalities.	The mortalities are removed on a daily basis and collected by ZuluCroc to be used as food for crocodiles and other reptiles.