

# EFFLUENT MANAGEMENT PROCEDURE

OHSaES 7.8.1.5P

## 1. PURPOSE

This procedure establishes the guidelines to be followed with regard to Effluent Management.

## 2. SCOPE

The scope of this procedure covers the effluent waste emanating from **Supreme Poultry (Pty) Ltd – Mahikeng Processing Plant** site.

## 3. REFERENCES

- 3.1 GN R991 GG 9225 – Requirements for the purification of water or effluent
- 3.2 Provincial and Local By-Laws (North-West Provincial Gazette 7060 dated 10 December 2012 LAN 345
- 3.3 National General Authorizations: Waste Water Discharge Quality

## 4. DEFINITIONS

- 4.1 Effluent is industrial waste water generated within the Site. It is partially managed on-site and only excess water is discharged into municipal system.

## 5. ABBREVIATIONS

- 5.1 OHSaES - Occupational Health, Safety and Environmental System
- 5.2 PPE - Personal protective equipment
- 5.3 SHE - Safety, Health & Environmental
- 5.4 NW - North-West

## 6. REQUIREMENTS WITH REGARD TO RISKS / IMPACTS

- 6.1 **Safety.** Employees must wear the required PPE when performing work at the effluent area.
- 6.2 **Health.** Employees must wear the required PPE when performing work at the effluent area.

### 6.3 **Environment:**

- 6.3.1 Disposal of effluent (waste water) with high concentration of substances and or chemical properties content would have a negative effect on the Environment.

# EFFLUENT MANAGEMENT PROCEDURE

OHSaES 7.8.1.5P

- 6.3.2 Disposal of effluent with high oil content would have a detrimental effect on the environment.
- 6.3.3 Effluent not within the Local bylaws could result in a monetary penalty or a fine.
- 6.3.4 Snap sample taken once a month and sent to external laboratory for analysis of treated water that will be used for irrigation.
- 6.3.5 Excess effluent water is disposed into municipal system. Effluent is managed as follows:
  - 6.3.5.1 Process water directed to a sump at the workshop. Pumped to a wedge wire screen to separate the majority of solids.
  - 6.3.5.2 Water is recirculated to the defeathering area to gather and transport feathers to the same screen. Excess water is discharged to the municipal system.
  - 6.3.5.3 Analysis of the effluent is available done by accredited laboratory. Monthly record keeping and comparison of results with by-laws and National standards.
  - 6.3.6 The discharge water from the ammonia plant cooling towers are the concentrated water that is high in calcium and magnesium. The water is unfit for use anywhere, e.g. crate and truck washing as a white residue occurs when the water evaporates from the surfaces. The water is collected to a JoJo tank system, and then disposed of on the laws. *laws*
- 6.3.6 Provide and maintain approved measures to prevent the entry of a substance, which may be a danger to health or adversely affect the potability of water or affect its fitness for use, into: -
  - (a) the water supply system; and
  - (b) any part of the water installation on his or her premises.

## 7. STANDARDS

- 7.1 The limits as per the local by-laws NW West Provincial Gazette 7060 dated 10 December 2012 LAN 345 shall be adhered to.
- 7.2 Monthly test results of water used for irrigation the be compared with local by-laws and National standards.
- 7.3 Monthly test results for effluent discharge to be done by accredited laboratory compared with local by-laws and National Standards.

# EFFLUENT MANAGEMENT PROCEDURE

OHSaES 7.8.1.5P

## 8. ACCIDENTAL RELEASE MEASURES


- 8.1 Notify the General Manager, Maintenance Manager or SHE Officer of any spillages and accidental releases of effluent.
- 8.2 Ensure product is scooped up and placed into Product Waste Skips.
- 8.3 Avoid product from entering running off to adjacent land or into storm water systems.
- 8.4 Contact the Waste Company and have them remove the waste and provided required safe disposal documentation.

## 9. MANAGEMENT AND TREATMENT OF EFFLUENT

- 9.1 General Manager and Maintenance Manager of **Mahikeng Processing Plant** is responsible to manage the effluent.
- 9.2 Maintenance Manager is also responsible to treat the waste before final disposal into the municipal sewer.

Compile by: Gerrit van Wyk

Date: 08 April 2020



(GERRIT VAN WYK)

PHAKAMILE RISK CONSULTANTS

# EFFLUENT MANAGEMENT PROCEDURE

OHSaES 7.8.1.5P

Approved by Thomas van Wyngaard

Date: 16-4-2020



(THOMAS VAN WYNGAARD)

SUPREME POULTRY (PTY) LTD – MAHIKENG PROCESSING PLANT

GENERAL MANAGER

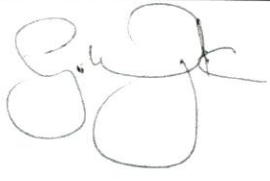


# EFFLUENT MANAGEMENT PROCEDURE

OHSaES 7.8.1.5P

## APPENDIX A

### CONTROL SHEET FOR UPGRADING OF SHE PROCEDURE AND RECORDS

Date	Nature of change	Page reviewed	Name of reviewer	Signature
23 Feb 2019	Change of document no to align with the revised ISO 14001:2015 standard clause numbers.	Document number changes from 7.4.6 to 7.8.1.2	A. Smith	
07/04/20	By-laws specific required added	Whole document	G VAN WYK	
	Approval signature added	Page 4		
	Site specific info added for Processing Plant	6.3.5 Pag 2	G VAN WYK	