



NOTE 1: WASH WATER TO ALLOW CLEANING OF CHLORINE INSTALLATION, WASHING OUT OF SPILLS ETC.
NOTE 2: BYPASS LINE TO BE OPENED DAILY TO ALLOW FLUSHING OF GRAVITY LINE AT MAXIMUM VELOCITY TO SCOUR ANY SETTLING DEBRIS.
NOTE 3: DOSING RATE OF FREE CHLORINE IS CALCULATED BY DIVIDING THE TOTAL MASS OF CALCIUM HYPOCHLORITE DOSED PER DAY (kg/d) BY THE TOTAL EFFLUENT FLOW RATE (Ml/d) TO GIVE BULK DOSING RATE, AND ADJUSTING FOR MOLAR MASS OF FREE CHLORINE IN $\text{Ca}(\text{ClO})_2$ WHICH IS 49% AND THE PURITY OF CHIPS WHICH IS 65-73%, TO ACHIEVE A FREE CHLORINE DOSING RATE OF AROUND 1mg/l, EFFLUENT FOR MICROBIAL EFFLUENT QUALITY COMPLIANCE.

NOTES:

LOCAL MUNICIPALITY: MAP



SPONSOR & REGULATOR: DWS



ISSUED FOR TENDER

0 100 MILLIMETRES ON ORIGINAL DRAWING 50

(A) BEFORE CONTRACT COMMENCES
(A) AFTER CONSTRUCTION CONTRACT HAS COMMENCED

Nr.	DATE	AMENDMENTS

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CLIENT / IMPLEMENTING AGENT



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PROJECT
TSHAME WWTW REFURBISHMENT

DRAWING DESCRIPTION
PROCESS & INSTRUMENTATION DIAGRAM:
MATURATION PONDS

DRAWING NO.	REVISION
10909001 - 7006	T1

DESIGNED:	JAW	CHECKED:	ECSA PR No: 20130658	Jabulani
DRAWN:	SP	SCALE:	N.T.S	A3
APPROVED:	ECSA PR No: 20130658	INCEPTION DATE:	JUN'23	
FILE PATH:	SHAREPOINT / BLOEMFONTEIN - 10909001 TSHAME WWTW / 04 DOC PROC / 04 DRAW			



ISSUED FOR TENDER