

Unit Process Inventory
CITY OF EDEN
DRY CREEK WASTEWATER TREATMENT PLANT
Unit Process/Operation Inventory and Parameters of Design

CAPACITY

0.5 MGD Plant

INFLUENT

Receives gravity flows from a portion of the east side of Eden.

SCREENING

One Mechanical Bar Screen with 1 inch clear openings

GRIT REMOVAL

One rotating grit sweep and grit screw collector

One collection hopper for Transport to Landfill

AERATION

One Aeration Basin with a 1.25 MG volume Basin has: Two 20 HP Horizontal Brush aerators

Retention Time Approximately 1.0 day @ 0.5 MGD flow rate

CLARIFICATION

One, 45 Ft. diameter clarifiers Siphon feed, Peripheral effluent and suction type sludge collectors

Wet well/Dry well recirculation station with Two 350 GPM centrifugal pumps for RAS or WAS

DISINFECTION

Two 50 lb/day Tablet Feeder for Sodium Hypochlorite Tablets

AEROBIC SLUDGE

One 45 Ft. diameter aerobic digester

DIGESTION

One 15 HP vertical floating aerator

Gravity decant wet well

SLUDGE DEWATERING and DISPOSITION

Two Sludge Drying Beds (Currently unused)

Sludge is pumped back to Mebane Bridge WWTP for treatment