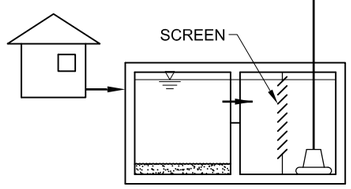
CITY OF COBURG

COBURG WATER RECLAMATION FACILITY

RECLAIMED WATER

STEP COLLECTION SYSTEM PRESSURE SEWER



SEPTIC TANK WITH EFFLUENT PUMP, TYPICAL FOR EACH CUSTOMER

S.T.E.P.: SEPTIC TANK EFFLUENT PUMP

ROTATING DRUM FINE SCREEN

SCREENINGS CONTAINER

SCREENING: PROTECTS THE DOWNSTREAM MEMBRANES FROM DAMAGE

ANOXIC ZONE

AEROBIC ZONE

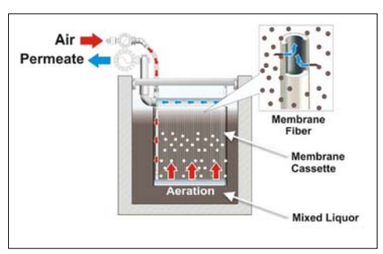
FEED PUMPS

AERATION BASIN

MEMBRANE TANK

PERMEATE PUMP

AERATION BASIN: BACTERIA (BUGS) BREAK DOWN THE WASTE AS FOOD AND REMOVE THE WASTE FROM THE LIQUID



MEMBRANE TANK: CONTAINS THE POROUS FIBERS THAT SEPARATE THE TREATED CLEAN WATER FROM THE SEWAGE. THE MEMBRANES ARE FILTERS, WITH PUMPS DRAWING WATER THROUGH THE FIBERS LEAVING THE BUGS BEHIND

CHLORINE CONTACT BASINS

CHLORINE CONTACT BASINS: TREATED WATER IS DISINFECTED BY CHLORINE TO PREVENT ILLNESS

RECLAIMED WATER PUMPING STATION

RECLAIMED WATER STORAGE BASIN

TO RECLAIMED WATER DISTRIBUTION

RECLAIMED WATER: DISINFECTED TREATED WATER WILL BE AVAILABLE FOR PRODUCTIVE USES LIKE AGRICULTURE, LANDSCAPING AND "GRAY WATER" APPLICATIONS IN TOWN.

OUTFALL TO MUDDY CREEK

AEROBIC DIGESTER

BIOSOLIDS STORAGE BASIN

TO LAND APPLICATION

AEROBIC DIGESTER: THE BACTERIA THAT EAT THE WASTE ARE REMOVED TO THE DIGESTER TO BREAK DOWN PRIOR TO DISPOSAL

SOLIDS DISPOSAL: SOLIDS THAT HAVE BEEN BROKEN DOWN INTO NUTRIENTS IN THE AEROBIC DIGESTER ARE TEMPORARILY STORED UNTIL THEY CAN BE LAND APPLIED AS FERTILIZER

MUDDY CREEK

MUDDY CREEK: DISINFECTED TREATED WATER IS COOLED USING NATURAL WETLANDS PRIOR TO DISCHARGE TO MUDDY CREEK

THE TREATED WATER PRODUCED BY THE NEW WATER RECLAMATION FACILITY WILL BE AMONG THE CLEANEST IN THE STATE AND MEET THE MOST STRINGENT WATER QUALITY STANDARDS