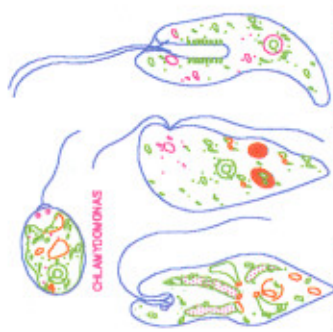


WANTED

ALIVE



AMOEBOIDS



FLAGELLATES

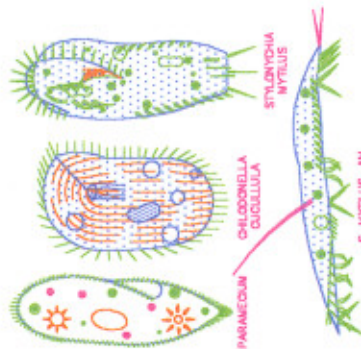
ALIAS: OCHROMONAS, EUGLENA VIRIDIS, OCHROMONAS PARAMECIUM AND BOBO

DESCRIPTION: POSSESS ONE OR MORE LONG HAIR-LIKE APPENDAGES CALLED FLAGELLA. THEY ARE DIFFICULT TO SEE AT 10X MAGNIFICATION.

CAUTION: HAS A FLEXIBLE CELL MEMBRANE THAT CHANGES SHAPE WITH THE MOVEMENT OF PROTOPLASM. THE AMOEBOIDS MOVE VERY SLOWLY IN A PARTICULAR DIRECTION BY THE USE OF PSEUDOPODS OR FALSE FEET.

REWARD: 1. FLAGELLATES AND AMOEBOIDS ARE ALMOST ALWAYS PRESENT IN ACTIVATED SLUDGE BUT THEIR NUMBERS SHOULD BE VERY LOW.
2. THEY SHOULD ONLY PREDOMINATE AT START-UP. IF THE F.C.M. AND M.C.T. ARE IN NORMAL RANGES, THEIR PRESENCE COULD INDICATE THE D.O. IS TOO LOW.

REWARD: FIRST SIGN OF A NORMAL START-UP.



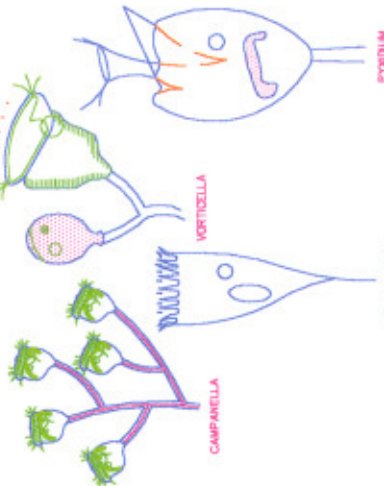
CILIATES (FREE SWIMMING)

ALIAS: CHILDONELLA CUCULLATA, PARAMECIUM, STYLONYCHIA MYTILUS AND S. MYTILUS, AN

DESCRIPTION: HAVE NUMEROUS SHORT HAIR-LIKE EXTENSIONS CALLED CILIA.

CAUTION: THEIR PRESENCE OR ABSENCE INDICATES THE AMOUNT OF BACTERIA IN THE ACTIVATED SLUDGE AND THE DEGREE OF TREATMENT. A LOW COUNT OR LACK OF FREE SWIMMING CILIATES COULD INDICATE:
1. TOXIC CONDITIONS
2. SEPTIC CONDITIONS
3. NUTRIENT DEFICIENCY

REWARD: THEIR PRESENCE INDICATES THE PROCESS IS APPROACHING STABLE OPERATION.



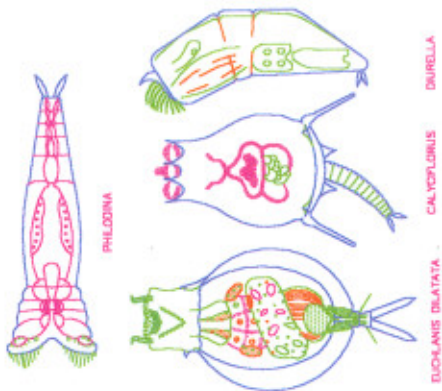
CILIATES (STALKED)

ALIAS: CAMPARELLA, TINTINNIDUM, VORTICELLA AND PYRIDUM

DESCRIPTION: GROW ON A FLEXIBLE STALK WHICH IS ATTACHED TO A SOLID SURFACE. THEY FORM STALK AND COLONIES (THREE OR MORE) BULBS (BELLS) ON A SINGLE STALK.

CAUTION: THEIR PRESENCE OR ABSENCE INDICATES THE AMOUNT OF BACTERIA IN THE ACTIVATED SLUDGE AND THE DEGREE OF TREATMENT. AT LOW COUNT OR LACK OF STALK CILIATES COULD INDICATE:
1. TOXIC CONDITIONS
2. NUTRIENT DEFICIENCY

REWARD: THE PRESENCE OF STALKED CILIATES INDICATES A STABLE PROCESS WHICH PRODUCES A LOW TURBIDITY EFFLUENT.



ROTIFERS

ALIAS: PHILODINA, EUDOLANS DILATATA, CALYPTORUS AND DREVELA

DESCRIPTION: MULTICELLULAR ANIMALS, WITH ROTATING CILIA ON THE HEAD AND A FORCED TAIL.

CAUTION: 1. ROTIFERS ARE AN INDICATION OF AN OLD ACTIVATED SLUDGE WITH A HIGH MORT AND ARE USUALLY ASSOCIATED WITH A TURBID EFFLUENT.
2. NUMBERS SHOULD BE LOW COMPARED TO FREE SWIMMING CILIATES AND STALK CILIATES.

REWARD: A PRESENCE OF FREE SWIMMING CILIATES AND STALK CILIATES WITH A FEW ROTIFERS INDICATES A STABLE PROCESS.



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