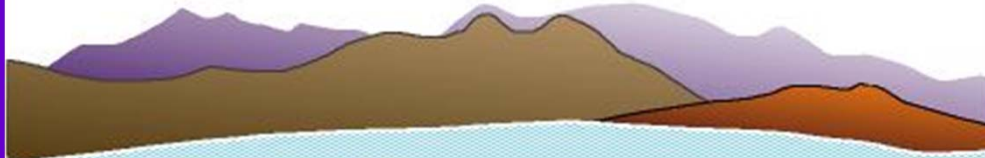


# CHD diagnostic

& CONSULTING SERVICE, INC.



GROUNDWATER MPA  
WORKSHOP - 2005

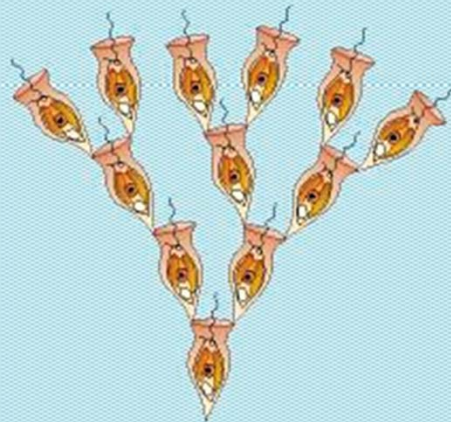
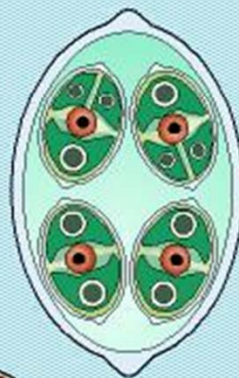
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# Constituent Waterborne Particulates

- Algae
- Diatoms
- Amorphous debris
- Plant debris
- Rotifers
- Nematodes
- Pollen
- Amoeba
- Ciliates
- Colorless Flagellates
- Crustaceans
- Other Arthropods (Insect/Larvae)
- Other

# Phytoplankton Divisions

## Algae

- Cyanophyta (Blue-green)
- Chlorophyta (Green)
- Euglenophyta (Euglenoids)
- Dinophyta (Dinoflagellates)
- Cryptophyta (Cryptomonads)
- Chrysophyta (Golden-Brown)
- Rhodophyta (Red)
- Prymnesiophyta (Haptophytes)
- Xanthophyta (Yellow-green)

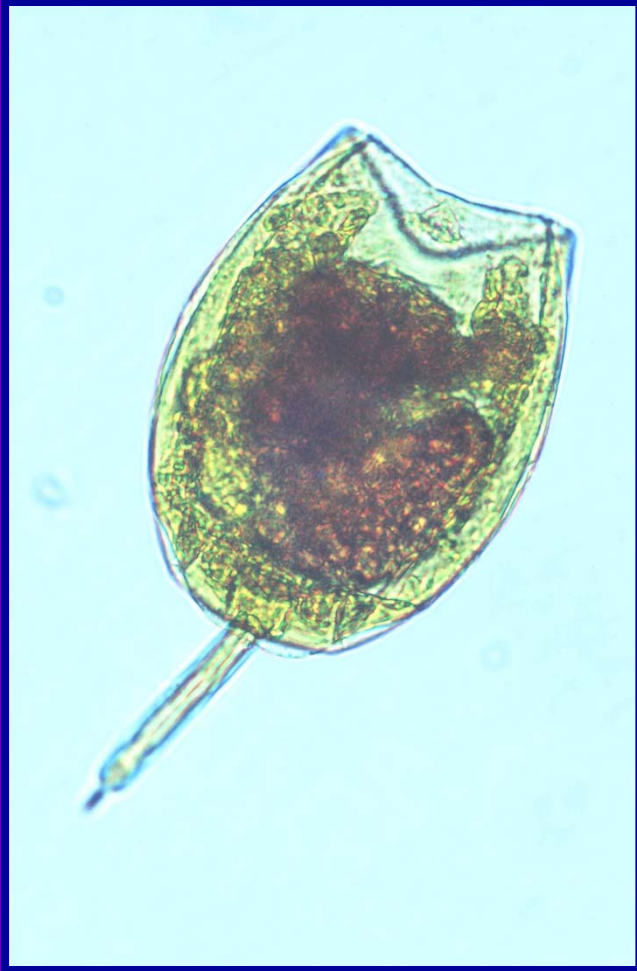
## Diatoms

- Bacillariophyta

# Amorphous Debris

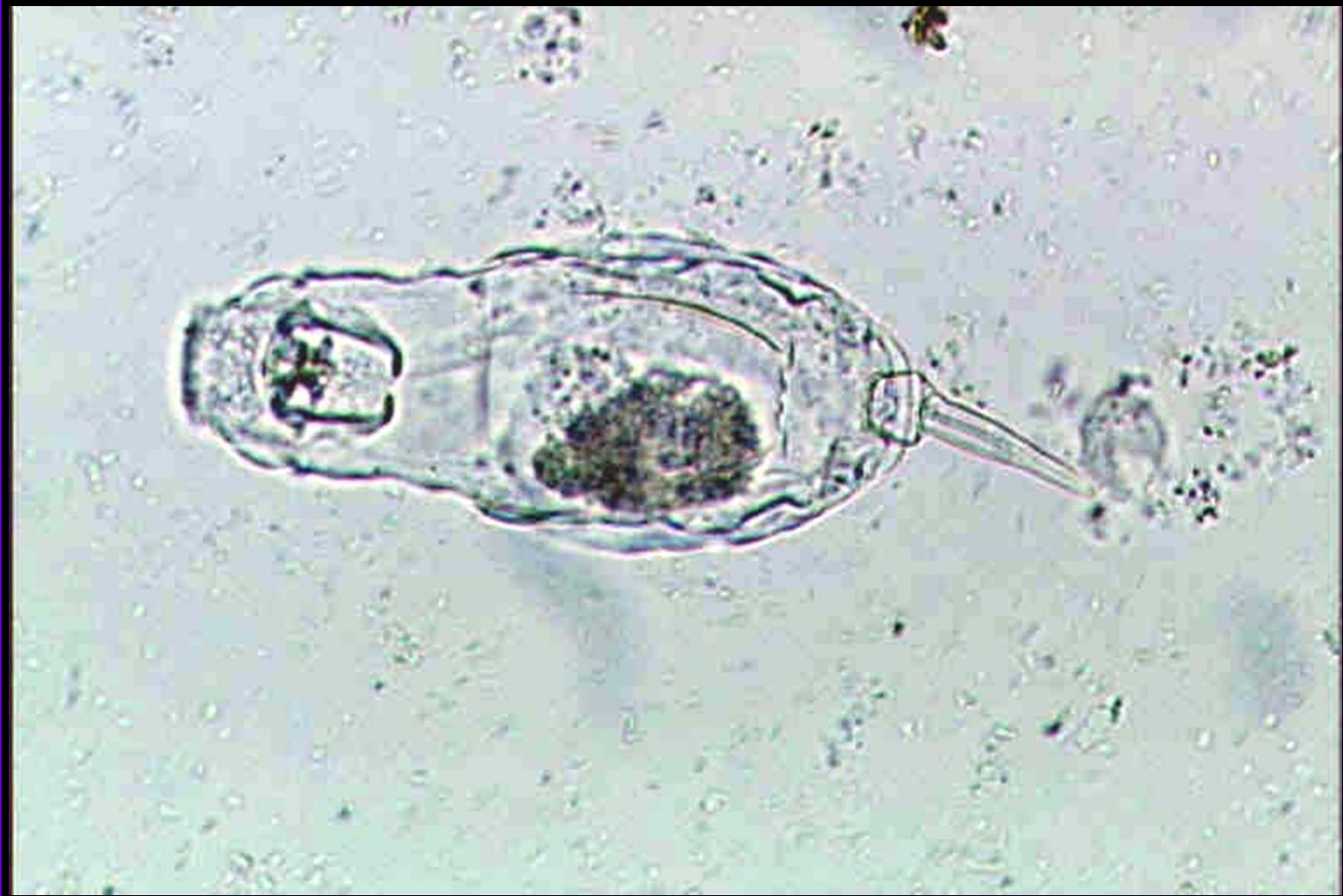
- Clay (1-2 $\mu$ m)
- Silt (2-50 $\mu$ m)
- Sand (50-2000 $\mu$ m)
- Inorganic Precipitate
- Detritus
- Diatomaceous Earth
- Flocculent
- Biological Flocculent
- Aggregates
- Size Range

# Rotifers





# Rotifers



# Rotifers





# Rotifers



Keratella



# Rotifers



Polyarthra



# Nematodes



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# Nematodes





# Pollen





# Amoeba



# Ameoba Test



# Ameoba Test





# Ciliates





# Ciliate



© CH Diagnostic Inc., Fisheries and Oceans, Canada

# Ciliate



Vorticella

# Ciliate



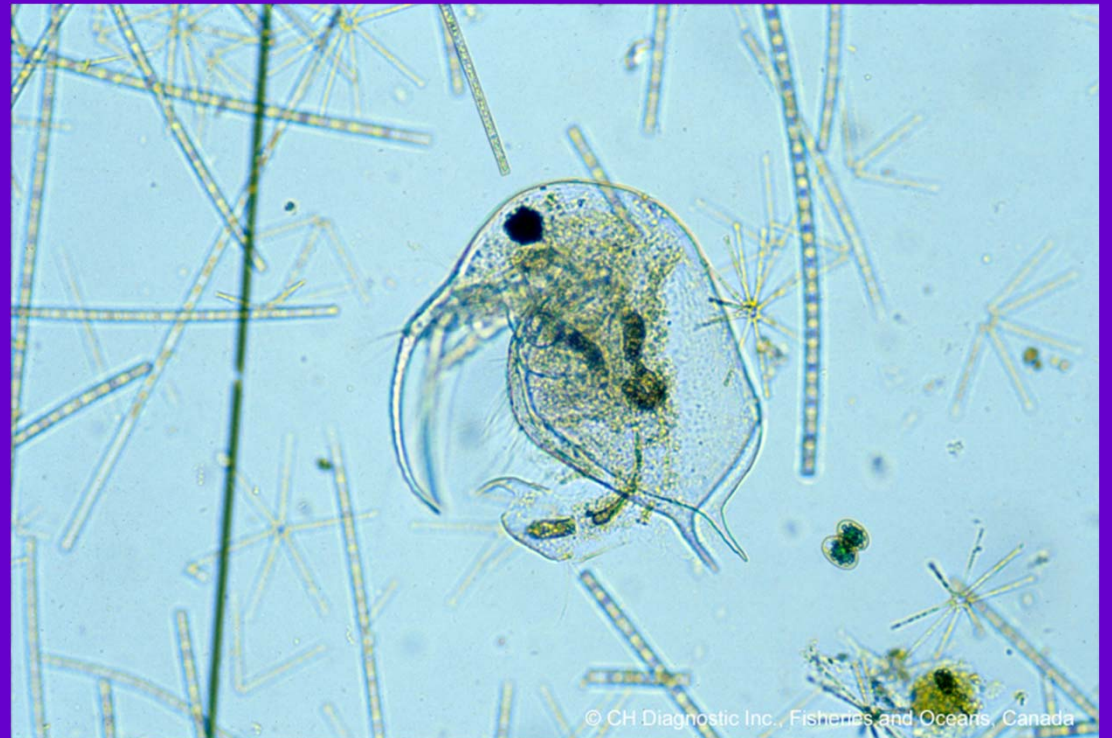
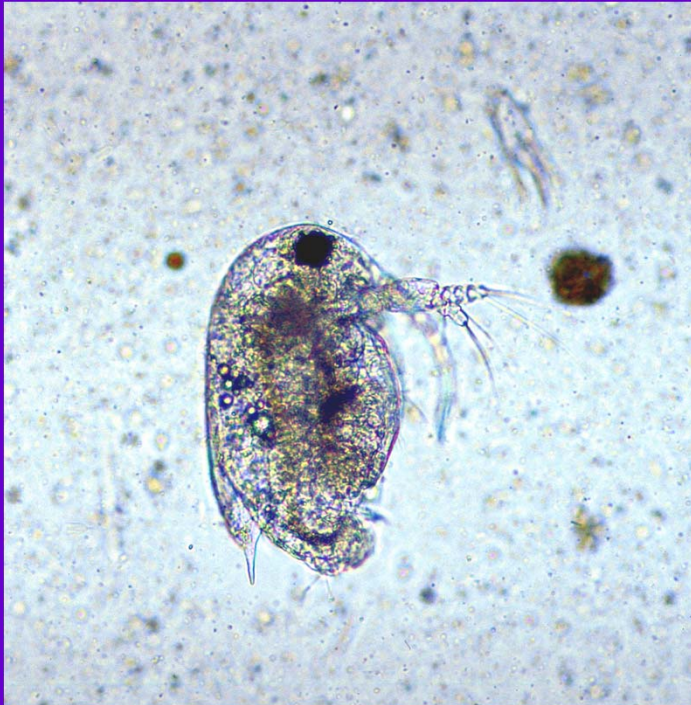
Codonella

# Ciliate





# Crustaceans



Cladoceran Bosmina

# Crustaceans



Copepod Harpacticoid



# Crustaceans



Copepod Cyclopoid



# Other Arthropods (Insect/Larvae)



Chironomid Larvae

# Other Arthropods (Insect/Larvae)



Chironomid Larvae

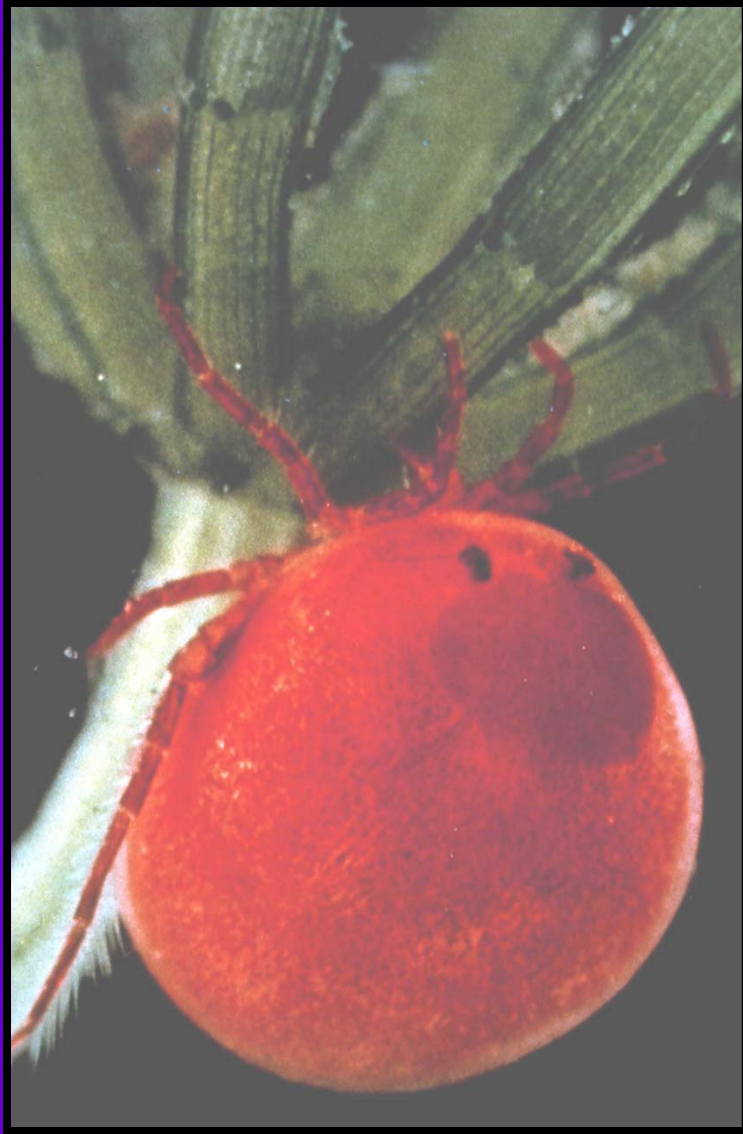
# Other Arthropods (Insect/Larvae)



Water Mite



# Other Arthropods (Insect/Larvae)



Water Mite

# Other



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Tardigrade

# Other



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Gastrotrich



# Other



Iron Bacteria