

Appendix 0-III Pathogenic Microorganisms in Domestic Wastewater
and the Diseases They Cause

Microorganism	Disease(s) Caused
BACTERIA:	
<u>Salmonella</u> species	Typhoid, paratyphoid, gastroenteritis
<u>Shigella</u>	Bacillary dysentery
<u>Yersinia</u>	Gastroenteritis
<u>Mycobacterium</u>	Tuberculosis
<u>Leptospira</u>	Leptospirosis
<u>Campylobacter jejuni</u>	gastroenteritis
Pathogenic coliforms (e.g. E. coli)	Gastroenteritis, urinary tract infections
<u>Yersinia enterocolitica</u>	Gastroenteritis
<u>Pseudomonas</u>	Respiratory and burn infections, diarrhea
<u>Klebsiella</u>	Pneumonia, bronchitis
<u>Serratia</u>	Respiratory and urinary tract infections, summer diarrhea
VIRUSES:	
polioviruse	Poliomyelitis
hepatitis A	Infectious hepatitis
echoviruses	Respiratory disease, aseptic meningitis, diarrhea, fever
coxsackieviruses	Respiratory disease, aseptic meningitis, myocarditis
noroviruses	Gastroenteritis
rotaviruses	Gastroenteritis
adenoviruses	Respiratory disease, eye infections
PARASITES:	
<u>Entamoeba histolytica</u>	Amoebic dysentery
<u>Giardia lamblia</u>	Giardiasis (“backpacker’s diarrhea”)
<u>Balantidium coli</u>	Dysentery, gastroenteriti
<u>Ascaris</u> ova	Pneumonitis, intestinal and nervous system disorders
<u>Trichuris</u>	Chronic gastroenteriti
<u>Enterobius vermicularis</u>	Enterobaisis
<u>Cestode</u> ova	Chronic gastroenteriti
<u>Coccidia</u>	Diarrhea, toxoplasmosis

*(Adapted from Kreissl, 1983, Fitzgerald, 1983, and sobsey, 1983a)