

Ecoli Symposium **WELCOME**

March 12, 2019

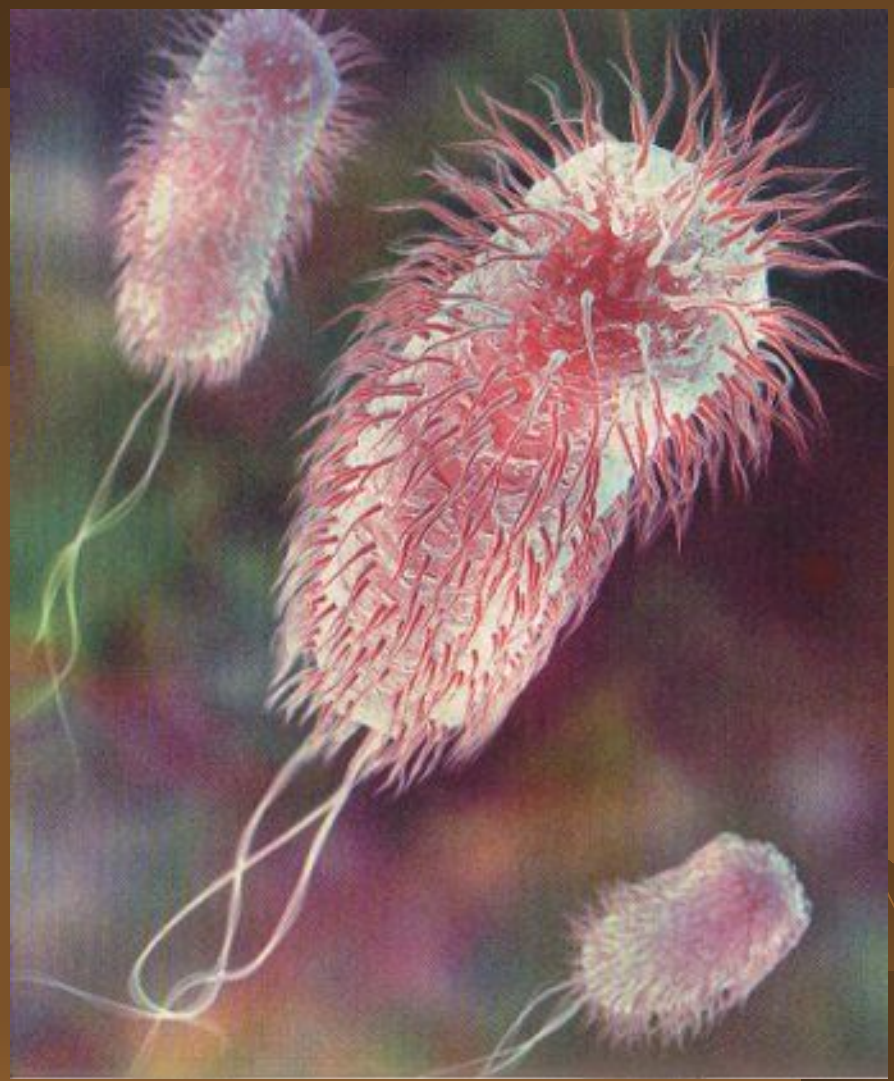
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Ecoli and other terms...



3/12/2019

O157

MS4

NPDES

TMDL

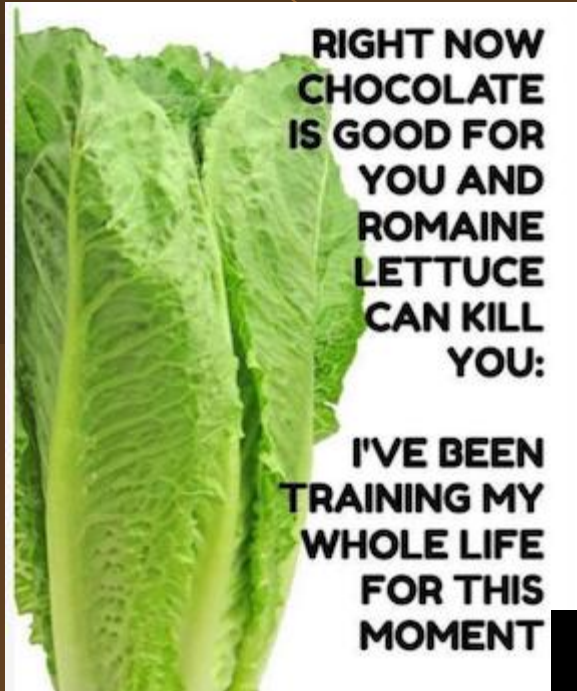
CFU

MPN

Geo Mean

November 2018 Ecoli & Romaine Lettuce

Contaminated lettuce has sickened at least 32 people in 11 states in this latest E. coli outbreak. While no one has died, one patient suffered a form of kidney failure.



Mammals Produce Ecoli



What's unique about *E.coli*, and the O157 strain, is that it produces shiga toxin, which is responsible for some of the severe symptoms and also causes a complication called hemolytic uremic syndrome (Kidney Failure)

Animals can cause E coli problems in waterways.....



Raccoons Living in Manhole

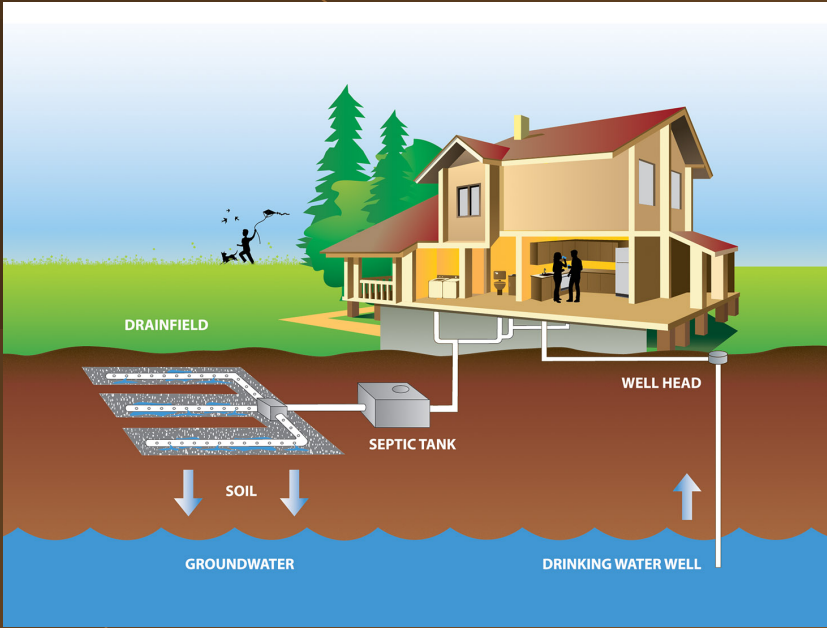


Dog Waste

Homeless Populations cause problems in waterways.....



Sewage from Sanitary Systems



Stormwater Runs Downhill



Stormwater Picks up Everything (Sewage, Manure and other Contaminants)



Stormwater (plus fecals) Goes to the River

