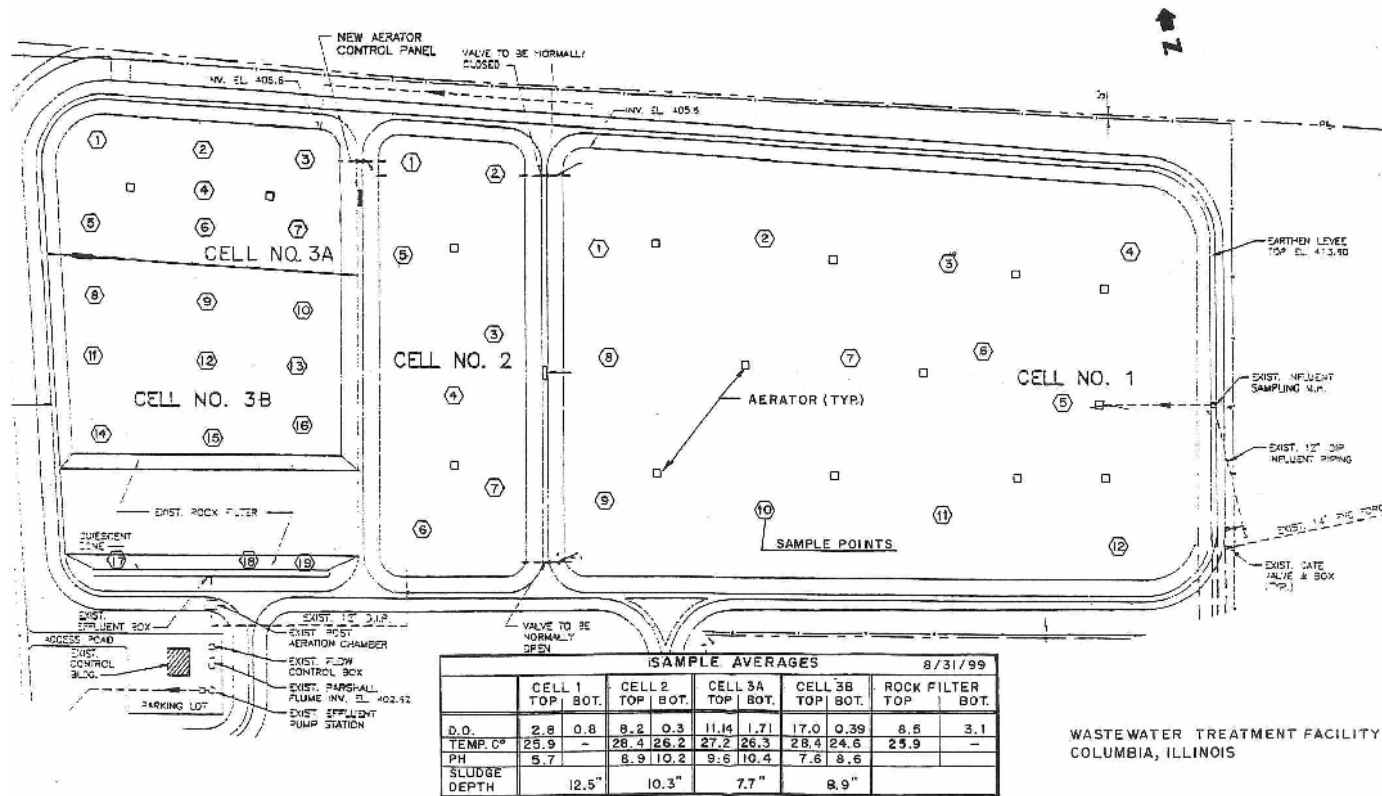


Air Diffusion Systems  
Lagoon Bacteria Applications  
General Instructions  
Simplified Version

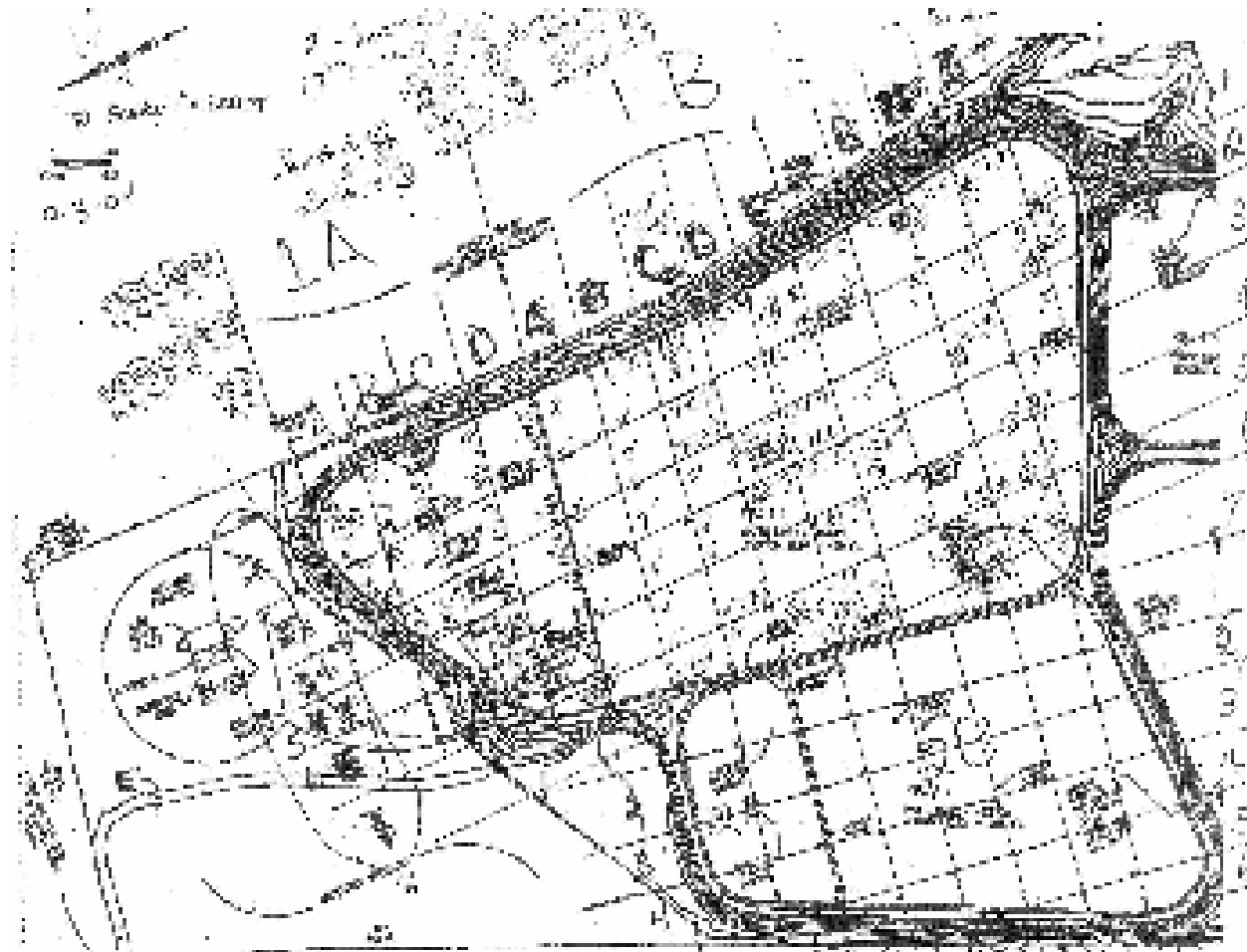
Bacteria applied from a boat

August, 2008

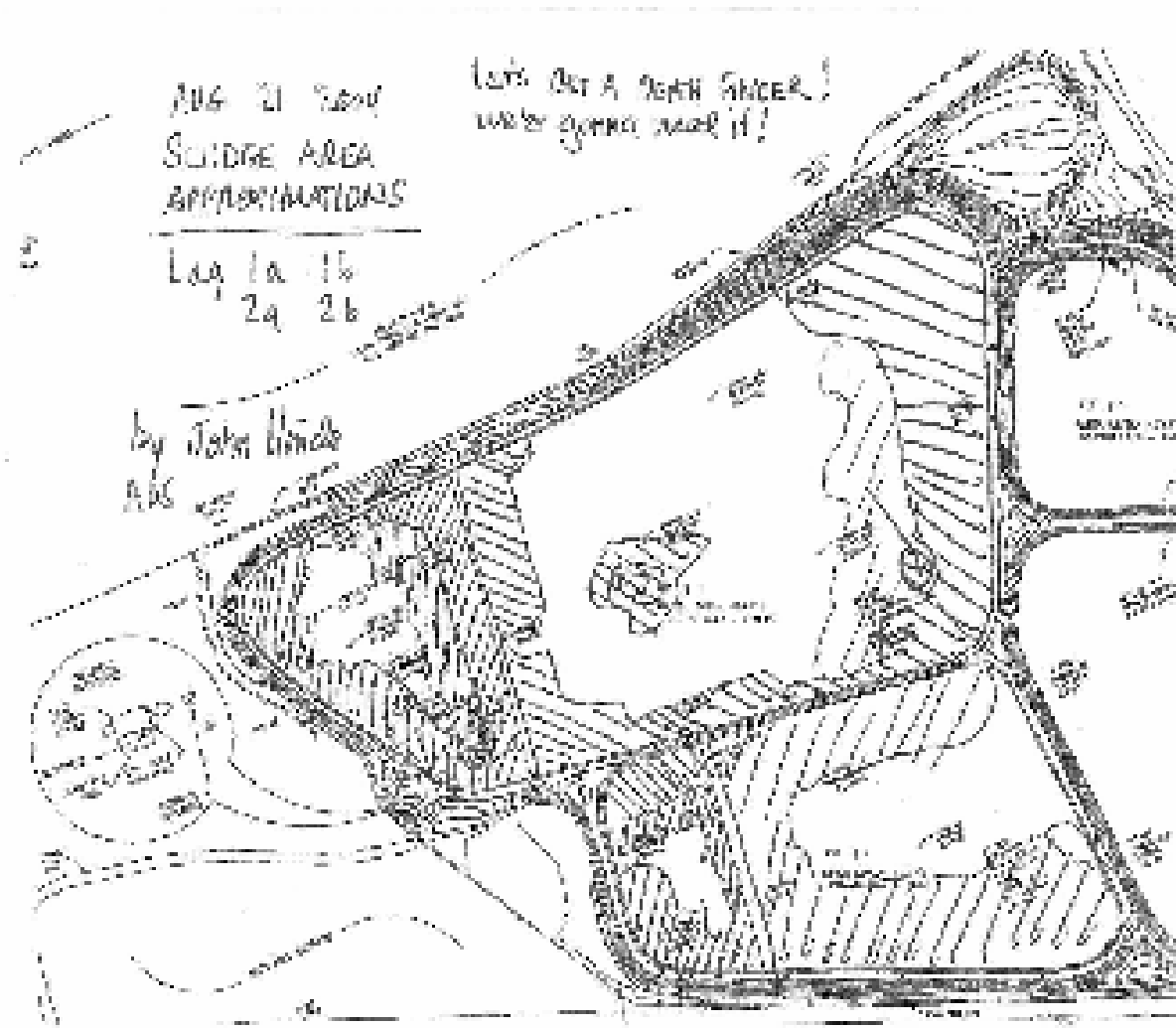
# Mark your sludge sample locations with a buoy or post on a grid.



# TYPICAL 100 FEET GRID MARKS



# Estimated deep sludge locations





# Brick and Buoy Lagoon Markers



# Sludge Judge in Motor Boat



With top valve open, slowly push into sludge in a vertical position



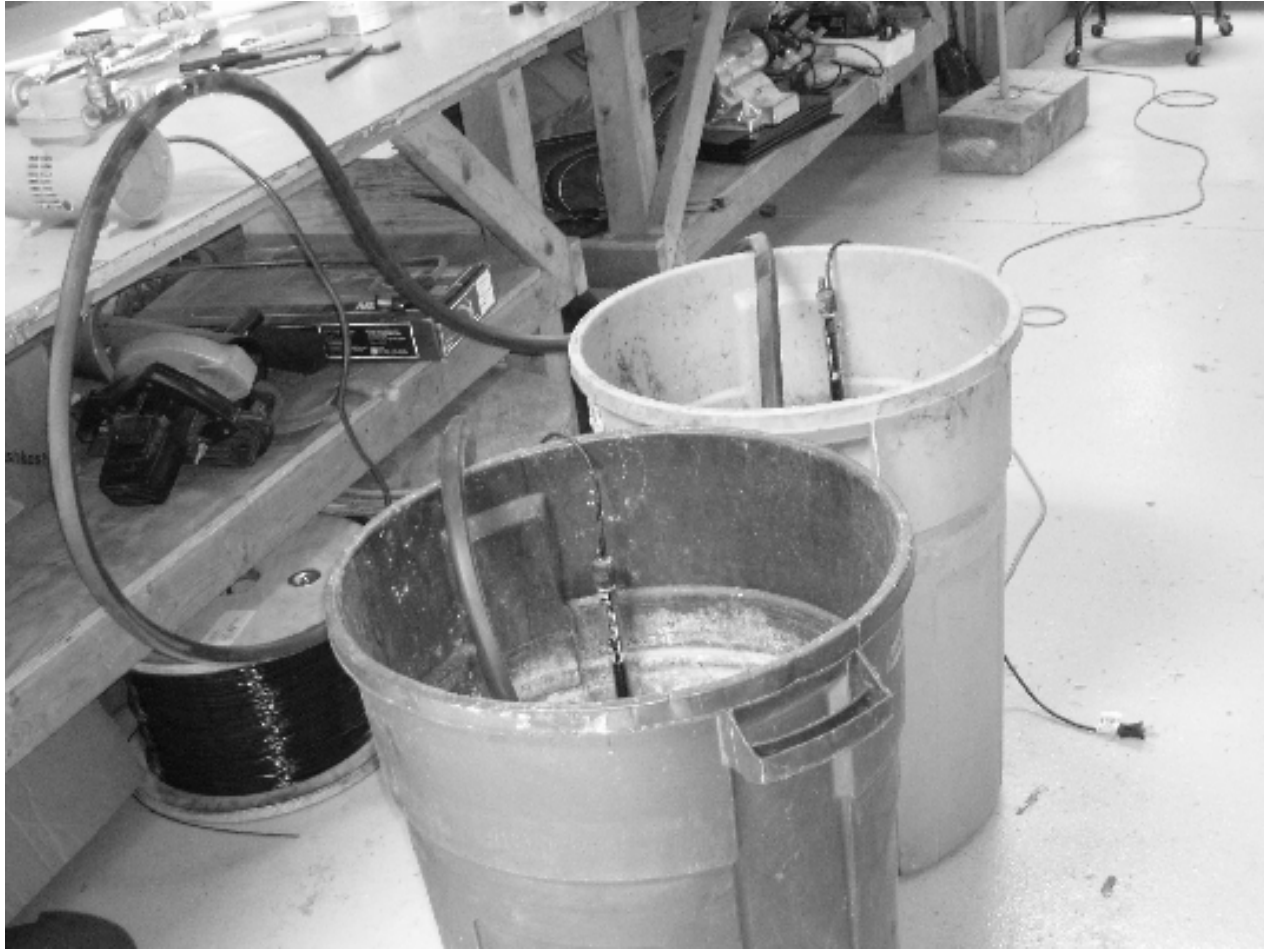
With top valve closed slowly lift the pipe to just below the surface



In a 5 gallon pail collect several  
sludge samples to be tested  
Volatile vs. Total Solids



Brewing the bacteria: use 30 gallon pail, a compressor, aquarium heater, city water and bacteria / activators for 24 hours before application



# Inside of the 30 garbage gallon pail



With a “loop –chain” & funnel / weighted drip tube clamped to the boat begin adding bacteria to the bottom waters stirred-up by the chain



# Pouring the bacteria evenly through out the lagoon bottoms



It takes two men to apply the bacteria from a motor boat



Typical sludge reduction is 1" per week with 1 PPM of bacteria added per the lagoon volume and water temperatures above 50F

