Position Updater

Class to calculate diffusion parameters

Class to calculate subtime step: to be deal with particle? Because age needs to be with particle

Class to obtain hydro info

Class to calculate velocity profiles

Class to set particle position

Class to calculate swimming velocity

If Fokker-Planck equations are going to be used how to set up classes?

At what confidence level a particle should be at what position? Using stochastic processes descriptions

swimHelper:

updatePosition(p)

get swimming velocity (x, y, z, t)

get flow(x)

get velocities (x, y, z, t)

particle:

inserted, age, health, position (set, get functions for wb, node, xyz, etc.independent from any helper?), swimming helper (calc velocity etc.), route helper, survival helper

make node decision, make reservoir decision, move cross coveyor

update location.

Swimming helper:

Calculate velocity

Particle env

Hydro, wb, node,

Particle: position

Particle.swimmingHelper.move(particle) set ParticlePosition

ParticlePosition:

Initially put everything to null until inserted

x, y, z, wb, node sets and gets

setPosition

getPosition

swimHelper:

swimHelper.setPosition(ParticlePosition)

swimHelper(ParticlePosition, ParticleFixedInfo)

particlePositionDSM2:

setDSM2ChannelYZ()

who should remember previous width and depth?