



CWEA SACRAMENTO SECTION Young Professionals Committee Presents

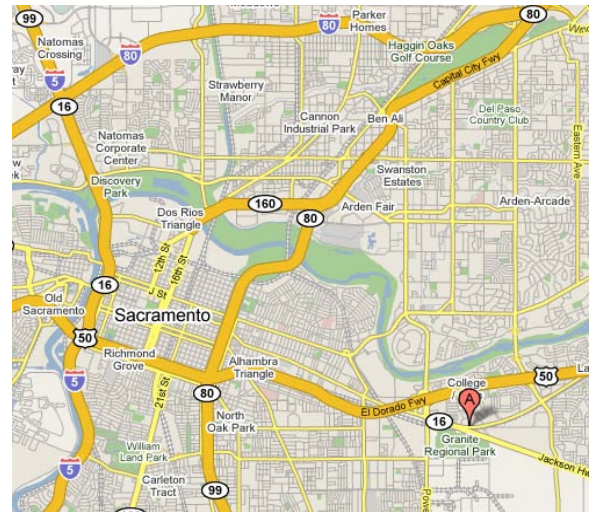
Hydraulic Evaluation of Wood Chip Media: Constructed Wetlands for Denitrification

Guest Speaker: Guy Hopes, UC-Davis

DATE: Wednesday, July 14, 2010
TIME: 12:00 pm – 1:00 pm
LOCATION: **Umeko Japanese Seafood Buffet**
8353 Folsom Blvd
Sacramento, CA 95826
(916) 381-6397

COST: \$10.00 members
\$17.00 non-members
(Pay at the door)

RSVP: **No Later Than Monday,
July 12, 2010**
Stephen Caswell
scaswell@carollo.com or 916-565-4888



All attendees are eligible to receive one hour of CWEA contact time.

[Presentation Description:](#)

Passive denitrification wetland systems using wood chips have been found to remove nitrate effectively. Wood chip media subsurface wetlands, in which wood chips replace gravel, were characterized based on the system hydraulics (conductivities, actual retention times, and levels of dispersion) and compared to gravel subsurface wetlands through permeameter and tracer testing. The hydraulic conductivities of the wood chip wetlands ranged from 0.13 to 0.54 m/s; these values are comparable to the medium sized gravel (media) used commonly in wetlands (Reed et al., 1996, Crites et al., 2006). Nutrient gradients within the wood chip wetland systems caused plant growth to be thicker at the inlets and thinner at the outlets corresponding to where nutrient removal was taking place within the wetland. Wood chip porosity diminished as a result of treatment within the wetlands.

[About the Speaker:](#)

Guy Hopes is a M.S. student at UC-Davis in Environmental Engineering. The topic of the presentation is very familiar to Mr. Hopes as this was his Master's thesis.

Special Services: Please check here if you require special accommodations to fully participate. Attach written description of needs.