

Meeting Minutes
CCLEAN Steering Committee
September 15, 2009
10:00 AM to Noon
Watsonville Wastewater Treatment Plant

Participants:

Barbara Pierson: City of Watsonville, (831) 768-3179

Dane Hardin: Applied Marine Sciences, (831) 426-6326

Garrett Haertel: Monterey Regional Water Pollution Control Agency, (831) 883-6176

Mike Higgins: Central Coast Water Board, (805) 542-4649

Lee Genz: Moss Landing Power Plant, (831) 663-6785

Hank Matz: Carmel Area Wastewater District, (831) 624-1249 x234

Akin Babatola: City of Santa Cruz WWTF, (831) 420-6045

Agenda Items:

- 1) **Review of last meeting minutes:** The minutes from the July 6th meeting were accepted as written. The URL for the page on the CCLEAN website where the minutes are posted is: http://www.cclean.org/ftp/Program_Documents.html
- 2) **Endocrine Disrupting Bioassay Screening:** The EDC assay was originally scheduled during the high volume water sampling of the WWTF's effluent in August and September, but the laboratory did not have sufficient fecundity in the fathead minnows during the three-week pretest. They have determined that they need larger fish. The lab also had problems with the tubing in the peristaltic pumps that are being used to dose the tanks with effluent/dilution water. The earliest the laboratory will be ready to try another run will be the end of November. It was decided that we would do the wet season bioassay as soon as the lab is ready and try to coordinate the high volume sampling of the plant effluent at the same time. However, if that is not possible, it is more important that we get a bioassay done.
- 3) **Effluent sampling:** Carmel has no flow to the bay now, and the way their effluent sampler is set up, makes it impossible to do the high volume water sampling (hvws) at the same time the other dischargers. For several reasons, if Carmel did the hvws on their own in November, when they would next be discharging to the bay, it would be very expensive. (i.e., all the QC samples would have to be run for their single sample and it would be necessary to purchase another sampling canister because the turnaround time for the existing canisters would overlap our next sampling event). Hank is going to talk to Matt Keeling and see if Carmel can forgo the dry weather, high volume sampling. Mike thought it was a reasonable solution to the problem.
- 4) **Project Update:**
 - A) **Effluent Sampling:** Effluent sampling was done between August 24th and October 13th depending upon the flow at each of the treatment plants.
 - B) **Sediment Sampling:** The sediment sampling will be done in October. We had a discussion of the locations of the sediment sampling stations. In his review of the CCLEAN Program in 2007, Dr. Brock Bernstein recommended relocating the sediment site in hopes to better detect the effects of contaminants in the bay. In 2008, four of the sites were moved closer to the Pajaro and Salinas river mouths. The resulting data from these new sites show them to be less depositional than the original sites (less fine sediments, more porous and sandy, and lower Total

Organic Carbon concentrations). Dane recommended, and Barbara concurred, that we should return the stations to their original location. Garrett asked if Dane could send us all a summary of the data. We decided that a decision about changing station locations would be made via e-mail, after reviewing the data. (note: Dane sent all committee members a summary of the data and explanation of this issue on Oct 6th.)

C) Mussel Sampling: Mussel sampling will be done in March.

D) Offshore Ambient Monitoring: The dry-season offshore monitoring was done over the same time period as the effluent sampling.

E) Proposition 50 Grant: The city has received payment from the state for work that was done through the end of 2008 when the funds were frozen.

5) **CCLEAN Bylaws:** The final version of the Bylaws is at [CCLEAN Program Documents](#) . This item has been tabled so they can be compared with other agencies' bylaws.

6) **Annual evaluation of the CCLEAN Program:** We decide we need to do an annual evaluation of our program. It was suggested that it be done in March of each year. Agenda and information would need to be sent to committee members 30 days before the meeting.

7) **Report from Meetings:** Dane informed us that there will be a workshop entitled "Watersheds, Water Quality, and a Changing Climate" on October 23rd at Moss Landing Marine Laboratories. It is hosted by the Monterey Bay National Marine Sanctuary and the Central Coast Wetlands Group.

Akin and Garrett attended the Micropol Conference sponsored by IWA (international Water Association); IGWA (International Groundwater Association) and the WEF (Water Environment Federation) in San Francisco. Notable sessions included Daniel Schlenk's presentation on EDC bioassay work and bioassay TIE done in effluents from the Central Valley. They had used rainbow trout as test species, and Daniel Schlenk provided commentary on its uses and the validation of fathead minnows by USEPA. Other work reported findings in Europe as to the need for, and the validation by ecotoxicology of initial EDC bioassay work done with Microtox and other standard bioassays, and Dave Sedlak spoke about algae in treating wastewater, and was going to refer some European scientists to facilities in the SF Bay area that currently engage in this treatment modality. Nano-particles in wastewater were also discussed at the conference.

8) **Financial Update:** The City of Watsonville has received \$497,629 from the member agencies and has spent \$385181.45 for CCLEAN in FY 08/09.

The breakdown is:	Applied Marine Science	\$ 87296.20
	NewFields	\$ 68779.00
	Kinnetic Laboratories (KLI)	\$201874.98
	Monterey Bay Analytical	\$ 200
	City of Santa Cruz	\$ 92
	City of Watsonville	\$ 1,740
	Administration Fee (7%)	\$ 21227

All payments have been received from the member agencies for fiscal year 08/09. We collected the money for the EDC assay in 08/09, so \$82,879 will be transfer to the 09/10 budget. Kinnetic Laboratories have not invoiced for all their work for the 08/09 project year. They have \$16,675.02 left in the 08/09 budget. This leaves \$19,608 in the contingency fund in last year's budget. Dane has submitted a letter (see attached file) detailing Applied Marine Sciences cost overrun for 08/09. The total is \$24,769. We negotiated with Dane. We will move the cost of the Investigation of EDC assay to the 09/10 budget, pay half the overrun in Task 2 (Ensure Program Data Quality) and pay the

overrun for the meetings. That comes to \$11,410, which leaves \$8,198. These funds will be added to the contingency fund for the 09/10 budget.

The City has received payments for the first quarter of the 09/10 fiscal year from all agencies except for Monterey Region. Garrett said that he had approved the payment and the city should be receiving it soon.

- 9) **Set Date for the next Meeting:** The next meeting was set for Tuesday, November 3, 2009 at the Watsonville WWTP from 10:00 to 12:00.