

Meeting Minutes

CCLEAN Steering Committee

September 18, 2007

10:00 – 12:00 a.m.

Watsonville Wastewater Treatment Plant

Participants:

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

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

Greg Antosz: Monterey Regional Water Pollution Control Agency (MRWPCA), (831) 883-1118

Garrett Haertel: MRWPCA, (831) 883-6176

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

Chris Coburn, Sant Cruz County (831) 454-2763

Karen Worcester, Regional Water Quality Control Board. (805) 549-3333 (Speaker Phone)

Agenda Items:

1) **Review of last meeting minutes:** The minutes from the 9-18-07 meeting were approved, with some minor changes. These changes will be made and the approved minutes will be posted on the website.

2) **Financial Update:** The City of Watsonville has collected \$1,784,024.80 from the member agencies over the past 6 years and has spent \$2,668,449

The breakdown is:	Applied Marine Science	\$578,624
	Weston Solutions	\$376,628
	Kinnetic Laboratories (KLI)	\$1,399,318
	Monterey County	\$ 34,665
	Santa Cruz County	\$ 45,400
	Monterey Bay Analytical	\$ 20,815
	City of Santa Cruz	\$ 6,524
	City of Watsonville	\$ 12,635
	Carmel Area Wastewater	\$ 2,982
	BC Laboratories	\$ 6287
	Brock Bernstein	\$ 10,000
	Administration Fee (7%)	\$174,571

Barbara wants to close out the books for the first 6 years of CCLEAN and start fresh with the 07-08 budget. When the final payments for fiscal year 06-07 (\$3,027 from Carmel, \$21,841 from Santa Cruz, and \$21,000 from Monterey Regional) are received and the invoices are paid for last year, we will start a new spreadsheet starting with fiscal year 07-08. The latest invoice from KLI covered service rendered to July 30, 2007. When Dane reviewed the invoice he said that all the expenses were from last year. Barbara will pay that invoice with last year's budget.

The total CCLEAN budget for 07-08 is \$366,393. A spreadsheet with the new budget and the new division of cost was handed out. The base pay was changed from \$5,000

to \$7,000. Moss Landing Power Plant has agreed to pay \$35,000 and the rest of the budget is divided between the remaining 4 members. The division is determined by the 5-year average flow each POTW discharged to the bay in 2001 to 2005. The resulting cost for each agency is as follows: Carmel - \$19,549, Monterey Regional - \$109,335, Watsonville – 84,738, and Santa Cruz - \$117,771. Greg said he has to get approval from his board for this amount. He has budgeted close to that amount so the first 2 or 3 payments should not be a problem. The first quarter bills for 07-08 will go out the end of this week and the second quarter bills will go out in October.

New contracts and PO have to be done for all the consultants (AMS, KLI, and New Fields Northwest LLC (formerly know as Weston Solutions, and before that MEC)) working for CCLEAN.

Barbara will try to send out Urea bills more frequently and before the end of the fiscal year.

- 3) **Making our Interim CCLEAN Program into a finalized Program:** This can be accomplished by adding “Endocrine Disrupting Contaminants” and/or Compounds of Emerging Concern (CEC) to the compounds we monitor in our effluent and consolidate the CCLEAN sampling of our respective effluents with our semi-annual compliance sampling for Priority Pollutants. We decided that we would work on developing a list of compounds to add to our effluent monitoring. Karen suggested that we consult the documents that have been developed by the SFEI workshops on EDC when developing the list.

To consolidate the effluent sampling we need to evaluate the different sampling methods. CCLEAN is presently using a solid phase extraction method (SPE), where the effluent is pumped through a filter of resin beads over a month period of time. The effluent is flow proportionally pumped through the filter at intervals of effluent that are dependent upon the anticipated flow over the 30-day period with a modified ISCO sampler. After the sampling (~200 liters of effluent goes through the filter) the filter is sent to the lab and the contaminants of concern are elutriated from the filter with a solvent. The extraction is then analyzed with different GC/MS methods. The concentrations are calculated by dividing the amount of contaminants in the extract by the volume of effluent pumped through the filter. The City of Santa Cruz and Monterey Regional are using a semi-permeable membrane device (SPMD) to sample their effluent. Again the sampling is done over a month period of time. This method is a passive method of sampling. The device is submerged in a trough that the effluent is flowing through. Based on the affinity of the compounds to be in the dissolved phase or the particulate phase, which is defined by the K_{ow} for each compound, the contaminants pass through the membranes in the device. The average concentration of the contaminants in the effluent during the time of sampling can be calculated. The City of Santa Cruz seems to have sampled its effluent, using the SPMD method, during the same period CCLEAN has sampled the Santa Cruz’s effluent, using the SPE method. The results of this side-by-side sampling will be compared to enable CCLEAN to make informed decisions and work with the Regional Board on future permit language. Akin will send his results to Dane. There was also a discussion of validation of the different sampling methods. Dane will

contact Axys laboratories for this information for the SPE method. (note: after the meeting Dane sent validation information from Axys Laboratories to all the steering committee members. The information revealed that Axys analytical methods are being reviewed as candidate reference methods under contract(?) by USEPA, and that previous analyses were generally performed with approved EPA methods, or 1600 series methods that still need to be validated by NELAC/ELAP) Akin explained that during sampling, SPMDs are spiked with perdeuterated compounds to determine the retention of sampled compounds, and that sample recoveries are calculated with day zero SPMD calculations. Percent recoveries of the spike surrogate can be calculated from the latter. Dane subsequently determined that pre-deployment spiking also is done by Axys on the SPE columns.

- 4) **Budget, MOA, for Fiscal Year 07-08** We decided that the MOA can be done via E-mail. Ray from Carmel has edited the draft MOA that Bob sent him and it has been sent on to Akin. Akin said he would be able to work on it before he goes to WEFTEC. Barbara said she would send the copy edited by Ray to Greg so he could review it and have the agency's legal council review it as well.

Report from Meetings.

- A) **August 20th ASBS Meeting.** Dominic Gregorio held a meeting for agencies concerned with the monitoring of "Area of Special Biological Significance", in Monterey on August 20, 2007. Dane, Barbara, Ray, and Garrett attended. There was an initial plan to develop a monitoring program based on probabilistic sampling in which runoff from "unaffected watersheds" are compared with the runoff from area with human impact. It is hard to see how CCLEAN can fit into this program.
- B) Akin will be attending WEFTEC meeting in San Diego, October 12th through 18th.
- C) There is going to be an invitation-only meeting on November 1st at Long Marine Laboratory. Gary Connelly will host it. The topic is "The Central Coast Water Quality Data Synthesis, Assessment, and Management (SAM) Project.

6) **Project Update:**

- A) **Sampling of Rivers and Streams:** CCAMP is continuing to do this sampling on a monthly basis. This agenda item will be eliminated for future meetings.
- B) **River Sampling:** This will just be the Pajaro and San Lorenzo Rivers. The cost will be covered by Watsonville and Santa Cruz respectively. They will be sampled during the same time period as the Effluent sampling.
- C) **Effluent Sampling:** The effluent POP samplers started the last week of August.
- D) **Sediment Sampling:** will not be done this year. Data analysis of the historical results over the last 6 years will be done instead.
- E) **Mussel Sampling:** Mussel sampling will be done during the wet season.
- F) **Offshore Ambient Monitoring:** The buoys with the POP samplers will be

deployed on August 29th and be retrieved a month later.

G) Proposition 13 Grant: This report as been completed and it available on the CCLEAN website, CCLEAN.org. The final invoice has been sent to the state.

F) Proposition 50 Grant: This program is continuing a schedule. Dane has a Project meeting in Davis tomorrow. The constructed wetland studies will start next month.

7) **Set Date for the next Meeting:** The next meeting was set for Tuesday, October 30, 2007 at the WWTP in Watsonville. The time will be 10:00 am to 12:00 pm.

Items not on the Agenda: Some how the annual report was omitted from the agenda. Dane had sent out a draft of his “Conclusions and Recommendation” to all the committee members. Akin did extensive editing to the draft. Dane will incorporate the editing into his final draft.

Karen discussed the December Regional Board Meeting, when MRWPCA and Carmel Area Wastewater District will be renewing their NPDES permits. She plans on giving a Status Report of the CCLEAN program. She will focus on the finding of the 5-year program and Brock’s evaluation of the program. She hopes we can have decisions of where CCLEAN is going in the future, so she can include them in her staff report and her presentation to the board.