Meeting Minutes

CCLEAN Steering Committee
September 13, 2005
10:00 – 12:00 p.m.
Watsonville WWTP

Participants:
Barbara Pierson: City of Watsonville, (831) 768-3179
Dane Hardin: Applied Marine Sciences, (831) 426-6326
Patrice Parsons: Monterey Regional Water Pollution Control Agency, (831) 883-6120
Akin Babatola: City of Santa Cruz (831) 420-6045
Ray von Dohren: Carmel Area Wastewater District, (831) 624-1248
Karen Worcester: Regional Water Quality Control Board, (805) 549-3333
Dave Paradies: Bay Foundation, (805) 528-0221
Lee Genz: Duke Energy Moss Landing Power Plant, (831) 633-6785

Agenda Items:

1) **Review of last meeting minutes**: The minutes were accepted and will be posted on the website. Barbara mentioned that she had not included a discussion that we had about trying to expand the program to investigate sources of some of the POP such as PCB's, PAH's and other contaminants.

2) **Financial Update**: The City of Watsonville has collected $1,115977 from the member agencies and has spent $1,350,061

The breakdown is:	Applied Marine Science	$310,028
	MEC Analytical	$216,917
	Kinnetic Laboratories (KLI)	$720,506
	Monterey County	$ 23,421
	Santa Cruz County	$ 45,400
	Monterey Bay Analytical	$ 15,720
	City of Santa Cruz	$ 4,212
	City of Watsonville	$ 5,670
	Carmel Area Wastewater	$ 1,896
	Administration Fee (7%)	$ 94,064

All the agencies are up to date with their payments and the July bills were sent out, an update will be available next meeting. We are going to be about $40,000 over budget for the 5-year program. We also need to do some addition QC work to comply with our QAPP, which will cost between $7,000 and $10,000. The break down of what each agency would add to the budget, based on the annual flow of the respective plants is: Watsonville $ 14,000, Santa Cruz $ 18,000, Monterey Regional $ 12,000, and Carmel $ 3,000. We will check with our respective agencies and report back at the next meeting. The representative from Duke Energy said that Duke might be willing to pay a portion of the additional funds needed.

3) **QA/QC:SWAP detection limits, and inter-lab calibration:** Dane handed out a spreadsheet that summarized the CCLEAN data of nutrients and solids results. The spreadsheet highlighted the samples where more than 50% of the analyzed samples had ND results. These are the sample where the detection limit is an issue. Except for the Ambient Near shore samples which consist of just 16 samples, the only real issue with detection limits is the Monterey County Laboratory that has a 1-mg/L detection limit for nitrates and a 5-mg/L detection limit for total suspended solids. We discussed the possibility of Karen's group taking over the sampling and analysis of the Monterey County River and stream. They already sample all the CCLEAN locations on a monthly basis except for the Garland Park sample on the Carmel River. If Monterey County Laboratory could do the dissolved silica, Urea and Enterococcus analyses, Karen could do the others.

   Most of the QC should be provided by the laboratories free of charge except for the field duplicates, which need to be added to the CCLEAN program at a rate of 10% of the samples. When Santa Cruz County staff collects the stream and river samples they should collected duplicate samples at one site and label them "duplicate sample" with out identifying from which site they come.

   Karen requested that Dane send her the stream and river results so that she can compare them to the results they are getting.

4) **Project Update**

   A) **County sampling of Rivers and Creeks**: Barbara has notified the Monterey County Laboratory that they should send the ammonia samples to the Watsonville Laboratory before the holding time (28 days) expires.

      We discussed what method should be used to calculate annual loading from the stream and river data. The method currently (called the daily flow method) used by CCLEAN involves calculation of daily loads using the concentrations and flows for the days of sampling, which are then averaged and multiplied by 365. Karen had suggested that the average flow for the month (the monthly flow method) should be used instead of the flow from the day that the sample was collected. Dane brought in graphs comparing the resulting annual loads using the two methods. In some cases there are big differences in the loads using the different methods, from almost 100,000 kg/year more nitrate in the Pajaro River using the monthly flow method to 10,000 kg/year more orthophosphate in the Salinas River using the daily flow method. The magnitude and direction of difference varies among sites. The San Lorenzo River and the Pajaro River have higher annual loads using the monthly flow method and the Salinas River is higher using the daily flow method. One way we could check these methods is to compare them with Akin's daily results from the probes he has in the San Lorenzo River. Karen's evaluation of the CCLEAN stream data that Dane will send her also will help inform the resolution of how CCLEAN should calculate stream loads by determining whether unexpectedly high loads of some constituents from some streams is due to extreme concentrations.

      It was asked what the value of the loading data was. The response was that nutrient loading to the bay might trigger algae blooms. It was suggested that it

might be a good idea to get Ken Johnson from MBARI or Raphe Kudela from UCSC to help us correlate the nutrient loadings with satellite images of plankton blooms.

B) River Sampling: The dry weather river sampling was done from June 15th to July 15th.

C) Effluent Sampling: The effluent sampling was done at the same time as the river sampling except for Santa Cruz. Their effluent sampling happened between July 13th and August 15th so they could do the SPMD sampling at the same time as the CCLEAN sampling.

D) Sediment Sampling: MEC will do the sediment and benthic community sampling in September or October 2005. They will do replicate samples.

E) Mussel Sampling: The dry weather mussel sampling was done on July 25, 2005. Native mussels are collected from the CCLEAN sites.

F) Offshore Ambient Monitoring: We will do a final set of ambient monitoring in the fiscal year 2005/2006. While elimination of the Water Quality grabs was considered, since most of the results were non-detect, lower detection limits that might be available with Santa Cruz County could improve the value of this sampling.

G) Proposition 13 Grant: Our request for a time extension has been approved.

5) **Uploading CCLEAN data to the CCAMP website:** Dane will send all the laboratories the CCLEAN spreadsheet to see if they can submit the analytical results in that format. Dave said he would send a LIMS translator to Akin.

6) **Report from Dane about Storm Water Workshop**: The State Water Resources Control Board put together the workshop to get input from stakeholders about the prohibition of storm water discharges in Areas of Special Biological Significance. This was an opportunity for the State Board to hear from stakeholders on this issue. NRDC, the Surf Riders, Friends of the Sea Otter, the Coastal Watershed Council, and representatives from municipalities on the Monterey Peninsula, and the Pebble Beach Company were all there. The environmental groups expressed the opinion that more monitoring wasn't the solution, because it is well established that storm water has negative effects on the marine environment. The representatives of the municipalities, by and large, indicated that they wanted to do something, but that diverting all storm water flow to treatment facilities was cost prohibitive.

7) **Set Date for the next Meeting:** The meeting was set for Thursday, November 10, at 10:00 am, at the Duke Energy Power Plant. Lee will e-mail information about how to get into the power plant. He said that Duke Energy would also provide lunch for us.