



Naval Base Ventura County RAB Executive Board:

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Restoration Advisory Board Newsletter

Dear RAB Members and others with interest, thanks to all who joined us for the July tour of the National Environmental Technology Test Site (NETTS) demonstrations. We spent the afternoon visiting the innovative MTBE technology demonstration sites as well as the newly installed control and containment system, and adjourned to the Community Center for cookies and sodas. A special thank you goes to Ernie Lory and his entire NETTS team and also to Steve McCarel for being superb tour guides. The photo below is compliments of Dale Lorenzana.

Our meeting on November 1 was to have featured guest speakers from the NETTS Scientific Advisory Board, however their travel to a concurrent meeting at Port Hueneme has been postponed until March 2002. Instead, Steve Granade will present "Electrokinetic Remediation of Contaminated Sediments", a program he will be presenting this month at a Contaminated Sediments Conference in Venice, Italy. We look forward to seeing you then; in the meantime, here's a summary of activities since the June newsletter.

MUGU

Site 5...

Quarterly sampling was performed for the continuing investigation into an old sewer line that runs through the site. November 2001 will mark the final quarter of sampling for this part of the site investigation. The Navy expects the work to prove that the metal plating pits, the subject of the electrokinetics pilot remediation test, were not connected to the old sewer line. In the meantime, the electrokinetics project, which is the primary focus at the site, continues with weekly sampling. Chloroform formation remains under control. The electrokinetics pilot test will continue until January at which time the results will be evaluated to determine if this cleanup strategy can be used successfully to remediate the entire site.

Site 6 or the "Got Milk, Jr." site...

The pilot test, using lactic acid, continues to operate. An additional 500 pounds of lactic acid had to be added to the site, since apparently the microbes were hungrier than expected and had run out of



The tour begins with the NETTS demonstration ...

food. We could determine this by measuring for lactic acid (as lactate) and its first fermentation product, acetate. We do not expect to have to add additional acid, since the microbes need just enough to create optimal site conditions for them to degrade the solvents present. The first addition of lactic acid was diluted faster than anticipated. The most likely cause of this was unexpected tidal action in the groundwater. The addition of the lactic acid added about \$50K to the cost

and 10 months to the overall project schedule. There is a report, detailing results until the time the decision was made to add more lactic acid, if any one is interested in the details.

HUENEME

Harbor Dredging Project...

The Navy met with representatives of the Department of Toxic Substances Control (DTSC) to report the results of the risk assessment values, calculated from the harbor sediment sampling discussed in the June newsletter. In addition to staff from the Los Angeles office of DTSC, we were fortunate to have two toxicologists from their Sacramento office attend the meeting to review the assessment. The result of the meeting was that both the Navy and DTSC concurred that the assessment calculations support the safe placement of dredge materials on the beach in Port Hueneme.

In view of the results of the assessment as well as the fact that the dredging will occur over about 75% of the harbor area, the Navy believes the IR Site boundaries can be reduced. (You may recall that Site 19 includes the harbor area and also the series of drainage ditches that flow into the harbor area.) DTSC agrees this approach has merit. Reducing the boundary area of the IR site would greatly facilitate and lower the costs of future repair and dredging projects in the harbor. At a minimum, the Navy would take the following steps to pursue boundary reduction:

- Sample and analyze the sediments at the newly dredged harbor depth, which will be 40-feet. The current harbor depth is 35-feet.
- Provided the sediments sampled above are free of contaminants, develop a monitoring plan and a database to ensure no additional contamination enters the harbor.

The Navy will be working with DTSC in the coming

months to identify all the necessary requirements to reduce the Site 19 boundary in the harbor.

Groundwater Remedial Investigation...

Several of you have volunteered to review this document and we appreciate your help with this very important investigation. However, as those of you who have been involved with this project for some time know, the project has suffered numerous delays. The investigation was recently put on hold

when a groundwater flow sink was discovered, which was the result of a leaking sanitary sewer line. The line has been repaired, which is predicted to cause the groundwater flow to resume its normal course in a southwesterly direction across the base toward the ocean. New samples will be taken to confirm this restored groundwater flow, and a revised flow diagram will be developed. The work also includes a groundwater model; the new data will be used to recalibrate the model. A revised report is expected to be available by mid-October; Steve McCarel will report on this issue at the November meeting and provide copies, if available, to those interested.



... and ends at the Control and Containment System.

NETTS

The two primary NETTS projects, the biobarrier on the parade field and the Envirogen project on Pacific Road are functioning well. The biobarrier preliminary results are very impressive. We will show several graphic slides at the November meeting. This project is scheduled to continue until December 2002. The Envirogen project, which began in late spring, will continue until March 2002. The project involves a culture injection, stimulated by the addition of propane and oxygen. More information about the results will be available in late January.

That's our news since June. Please make plans to join us on November 1st! If you have any questions, please don't hesitate to call me, Gail Pringle, at 989-9256 or e-mail pringlegl@cbcpn.navy.mil.