

M I N U T E S

SEWER AUTHORITY MID-COASTSIDE
Special Meeting Of April 6, 1987

SAM Administration Building
1000 Cabrillo Highway North
Half Moon Bay, CA

The Meeting was called to order at 7:35 P.M. by Madam Chairman Schuetrum.

BOARD OF DIRECTORS ROLL CALL:

Present: Schuetrum, Kuhn, Beer, Bedesem, Shapira, (Giddings arrived 7:43 P.M.)
Alternate: None.
Absent: None.

STAFF PRESENT: Superintendent Valladao

GUEST SPEAKERS: John H. Jenks and Bruce M. Wyckoff, P.E., of
Kennedy/Jenks/Chilton, Consulting Engineers, Palo Alto, CA

BUSINESS: PLANT EXPANSION STUDY REVIEW

Mr. Jenks reviewed and highlighted the chapters in the report, and he identified the objectives of this Study, namely:

- (1) Meet the requirements of the Regional Water Quality Control Board
- (2) Meet the needs of a growing community
- (3) Follow up on the Reid Capacity Allocation Study along with changed conditions.

Mr. Jenks noted the individual Boards/Council will determine their own respective buildouts, and then the SAM Board of Directors will make a final determination as to the number to build towards. Doubling the present plant capacity to 4.0 MGD was noted as being the generally accepted figure for study and base calculation purpose.

The existing facilities and capabilities were identified. It was noted we now have a fine plant in that each unit has been analyzed along with its ability to function. Relative to the Study for increased capacity, the following points were noted:

- Our present headworks does not meet peak wet weather flow.
- Most plants are going to "fine" bubble aeration in lieu of coarse bubble for energy savings.
- We must balance capital cost to operating costs.
- Filter Belt Presses are now nearing capacity, and we cannot load much more Solids without overloading.

- The disposal of dewatered sludge is becoming a problem, with alternatives limited. Right now we enjoy being in a better position than most regarding the dumping of Solids. A brief discussion ensued regarding recent developments relative to this environmentally sensitive issue of dumping Solids. Alternatives like dumping on farmlands, owning acreage for disking in the dumping matter, composting, incineration, etc. were presented.

Staff noted concurrence with all that is in the report analysis. The Board noted this Study does reflect combined thinking.

The Secondary Treatment process was discussed at length, with six (6) alternatives of different types of biologic-treatment presented for review and comparison. The following points were noted:

- Common wall construction is not as economical as originally thought.
- Circular Tanks VS. rectangular enjoy economy, effectiveness, and maintenance preference.
- Energy costs is the single most important consideration to be given attention.
- Propose anaerobic for Solids and keep the aerobic for liquid sewage.
- The different types of bubbling systems were defined.
- A Fixed Film Reactor is not so easily upset as is only activated sludge and will get us through peak flows. It works nicely with all activated sludge and has higher reliability and flexibility.
- Dual process activated sludge and Fixed Film Reactor combine nicely for all flexibility -- needed for a higher level of treatment to facilitate uses of reclamation.

The Board noted the present limitations, as identified, were resultant of regulatory agency-imposed restrictions, e.g. California Coastal Commission, Regional Water Quality Control Board. It was suggested the input lines be evaluated to be sure they can carry the full proposed capacity INTO the plant.

The Ocean Outfall can be expanded by the use of pumps since it is a force main, thus we can pump out harder.

Another benefit of anaerobic digestion is that the methane gas produced as a by-product of the biological process in the air-tight vessels can be used by a generator to produce electricity, resulting in energy savings.

A discussion ensued regarding the alternatives available of building out in stages in lieu of all at once. Rough calculations indicate approximately 9-12 months for design; two years for various permits; and two years of actual construction.

The subject of Reclamation was addressed as still showing lots of promise. The Board acknowledged reality of not having Grant funding availability.

It was reported the Wastewater Industrial Discharge Survey is currently going on. This will identify potential dischargers of toxic wastes into the system; and once this survey is completed, it will be an on-going function to monitor and keep up with this list.

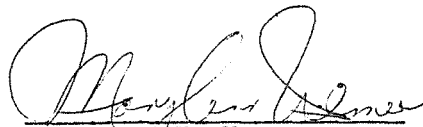
A Fixed Film Reactor can best accommodate changes in incoming influent and does not "shock" as easily.

The Board acknowledged acceptance of this Preliminary Report as well as their next considerations, namely: exactly what size plant to go for, financing, and pursuing the Environmental Impact Report process, which involves public hearings.

The Board noted they will go back to their respective Boards/Council to discuss what was reviewed tonight, along with the determinations they now must make. The Board directed this matter be again placed as part of the agenda for the general meeting scheduled for May 26, 1987.

The Meeting was duly adjourned at 10: 03 P.M.

Respectfully submitted,



Mary Ann T. Ulmer
Recording Secretary

APPROVED:

Darrell A. Kuhn
SAM Secretary