

METROPOLITAN SEWERAGE DISTRICT BOARD

APRIL 19, 1988

1. CALL TO ORDER AND ROLL CALL:

The regular monthly meeting of the Metropolitan Sewerage District Board was held in the Boardroom of MSD's Administration Building at 2 p.m. on Tuesday, April 19, 1988. Chairman Smith called the meeting to order at 2:00 p.m.

Chairman Smith and the following members were present: Aceto, Batts, Boggs, Dyson, Edwards, Ivey, Pope, Waddey and Williams. Others present were: W.H. Mull, P.E., Engineer-Manager, John Stevens, General Counsel, Dean Huber and Bill Morris, representatives of the Consulting Engineers, and Leah Karpen representing the League of Women Voters.

2. MINUTES OF MARCH 15, 1988:

Mr. Boggs moved that the Board minutes of March 15, 1988 be approved as written. Mr. Dyson seconded the motion, and voice vote was unanimous in favor of the motion.

3. HENDON ENGINEERING ASSOCIATES ANNUAL REPORT - DEAN HUBER:

Mr. Dean Huber reviewed the Annual Report by Hendon Engineering Associates with the Board. Mr. Dyson moved that the Report be adopted as written. Mr. Williams seconded the motion, and voice vote carried unanimously in favor of the motion. A copy of Hendon Engineering Associates Annual Report is attached and hereby made a part of these minutes.

4. REPORT OF ENGINEER-MANAGER:

a. Status of Phase III Plant Expansion Contracts:

Mr. Mull reported that demolition work on the primary settling basin and detritors is 80% complete. The Contractor has submitted construction schedule, sequence of work for RBC basin #1, and other miscellaneous items for review by engineer.

A number of shop drawings have been submitted and reviewed by engineer. No on-site work has been accomplished.

No bids have been received for Section 3B HVAC, and Section 3C Plumbing. The District is initiating advertisement of bids for Sections 3B and 3C.

b. Status of Modifications to Sludge Lagoon Dike:

Mr. Mull reported that work remaining on this project consists of completing finishing concrete at spillway and effluent box, installation of slide gate at effluent, dress up top surface of dam and grade to correct elevation, and seed area. All work is scheduled early April.

c. Status of Carrier Bridge Pumping Station Modifications:

Mr. Mull reported that no work has been started on this project. Shop drawings are expected in early April.

d. Responses to Solicitation of Proposals from Local Auditors:

Mr. Mull reported that the deadline for accepting proposals was 2:00 p.m. on April 18, 1988. The District received proposals from Crisp Hughes & Company and Mohnkern, Bolick & Company. A proposal was submitted after the 2 p.m. deadline from McGladrey Hendrickson and Pullen, and a letter from Johnson, Price & Sprinkle was received notifying the MSD they

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would like to submit a proposal if an extension of the deadline became available. Mr. Ivey moved that because of the limited number of responses and the busy tax filing time for Accountants, it would be in the best interest of the District that the Board grant an extension period for submitting proposals to May 13, 1988. Mr. Edwards seconded the motion, and voice vote was unanimous in favor of the motion. Chairman Smith assigned review of the proposals to the Budget Committee.

e. Request for Consideration to Upgrade Telephone System at the Metropolitan Sewerage District:

Mr. Mull reported that the District's contract for its existing telephone system has expired, and reviewed two options with the Board; 1) renew existing system for four years at a cost of \$14,304.00 or, 2) purchase Merlin system from AT&T at a total cost of \$11,080.00, including a maintenance contract. Mr. Mull stated he conducted a telephone poll of the Budget Committee, Batts, Boggs, Dyson Pope and Smith, to get approval to sign the contract in order to avoid the increase rate for this month. The Committee authorized the signing of the contract to purchase the Merlin system. Mr. Dyson moved that the District purchase the Merlin system along with the maintenance contract. Mr. Edwards seconded the motion. Mr. Boggs requested an amendment to the original motion to exclude the maintenance contract with the obligation that the Board look at this after one year's experience with the Merlin system. Mr. Wadley seconded the motion. Voice vote carried against the motion. The Board reverted to the original motion on the floor that the District purchase the Merlin system along with the maintenance contract. Roll call vote was unanimous in favor of the motion.

f. Sewerage Disposal Agreements Between MSD & Cane Creek Water and Sewer District (Henderson County Commissioners are Trustees for this District):

Mr. Mull reviewed an Agreement dated March 7, 1988, between MSD and Cane Creek Water and Sewer District with the Board, in which Henderson County agrees to abide by the Ordinance of the MSD (as amended) and in which the MSD agrees to provide waste treatment services. Mr. Williams moved that the Board accept the Agreement dated March 7, 1988, between MSD and Cane Creek Water and Sewer District. Mrs. Pope seconded the motion, and roll call vote was unanimous in favor of the motion.

g. Final Billing from Voith:

Mr. Mull reported that the District has received final billing from Voith in the amount of \$219,750.00 for the Craggy Dam Hydroelectric Facility, and noted that the District has received the necessary drawings needed from Voith.

h. Establish Date for Personnel Committee and Budget Committee Meeting:

Mr. Mull stated he would like to meet with the Personnel and Budget Committees after the Board meeting to establish meeting dates to begin work on the upcoming budget.

5. Report of Officers:

None.

6. Report of Committees:

a. Sewer System Consolidation Committee - Mr. Aceto

Mr. Aceto reviewed a letter dated March 25, 1988, sent to all municipalities and member districts stating that the District has pursued Consolidation to a standstill, and invited them to participate in a meeting which would be organized by the Land-Of-Sky Regional Council.

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7. Unfinished Business:

a. Proposed MSD/City Agreement for Champion Finishing Bar Screen Vault:

Mr. Mull reported that attempts between the City of Asheville to negotiate a change order with Hobson Construction Company to build the proposed bar screen vault had been unsuccessful in that Hobson's price was considerably higher than Hendon Engineering Associates estimate. As a result, Mr. Bill Morris has designed a bypass piping arrangement to be constructed by Hobson to connect the new collector sewer with the two new siphons, at a price of \$6,275.00.

8. New Business:

Mr. Mull reviewed a proposed Resolution requesting the Environmental Management Commission to develop a Judicial Order for the District, this being necessary because the Federal Law requires secondary treatment at all wastewater treatment plants by July 1, 1988, and the MSD will be unable to meet this deadline and this Order will excuse compliance of this deadline, providing certain conditions are met. Mr. Waddey moved that the Board adopt the Resolution as presented, and Mr. Dyson seconded. Voice vote was unanimous in favor of the motion.

9. Date of Next Regular Meeting: May 17, 1988

10. Adjournment:

There being no further business, the meeting was adjourned at 3 p.m.



SECRETARY/TREASURER



Hendon Engineering Associates

INCORPORATED

TELEPHONE (704) 274-7711

ADDRESS REPLY TO P. O. BOX 5176

25 REED STREET • ASHEVILLE, NORTH CAROLINA 28813

HARRY H. HENDON

(1904-1973)

H. D. HUBER

P. L. BENTLEY

M. G. BUCKLEY, JR.

R. F. HOLBROOK

J. O. BREWER

W. L. MORRIS, JR.

H. E. BYAS, JR.

S. S. KANE

April 11, 1988

Metropolitan Sewerage District
Buncombe County, North Carolina
P. O. Box 8969
Asheville, North Carolina 28814

Attention: Mr. W. H. Mull, Engineer-Manager

Gentlemen:

Article V, Section 504 of the Resolution authorizing and securing Sewerage System Revenue bonds for the Metropolitan Sewerage District of Buncombe County (MSD) requires an appropriate consultant to prepare and file with the District on or before the 15th day of April in each fiscal year, a report setting forth:

"(a) its findings whether the Sewerage System has been maintained in good repair, working order and condition..."

A review was made of the MSD Sewerage System on March 2, 1988. Actions are continuing to keep the aging treatment facilities in satisfactory operating condition until they can be replaced. Plans are being made to provide supplemental aeration facilities in the Aeration Basins to meet the additional requirement for air resulting from increased industrial, commercial and residential flow.

The Phase I plant expansion and upgrade project, begun in 1985, is now in full operation. The Craggy Dam Hydroelectric Project, begun in 1984,

continues in full operation. These two construction projects bring to realization a more efficient and cost-effective Treatment Plant operation. They also necessitate more diligent plant operation and maintenance during the period of, and in the midst of, construction.

The Metropolitan Wastewater Management Plan (sewer consolidation) is still in the stage of being adopted by the member communities of MSD, a necessary legal step prior to implementation. Recently, the City of Asheville has shown a reluctance to adopt the Plan. MSD, MSD counsel and the consulting engineers have been directed by the District Board to evaluate alternatives available should Asheville withdraw from the tentative plan. The Management Plan or consolidation will be the key to implementation of a Sewer System rehabilitation program for the control of infiltration and inflow.

The MSD Sewer Use Ordinance was revised to reflect new State regulations and guidelines. The revised Ordinance was formally adopted by the Board on December 8, 1987, after a 60 day comment period by the member communities of MSD. New Permits to Discharge Industrial Waste, being issued to replace expiring Permits, reflect requirements of the new Ordinance and increased pretreatment requirements and restrictions where the MSD Industrial Monitoring Program has identified deficiencies. Strict enforcement of new pretreatment regulations and Permit requirements will minimize future adverse industrial impact on Wastewater Treatment Plant performance.

Plans are being formulated to move the Septage Dumping Station to a location subject to continuous MSD Staff supervision. This relocation is necessary to help insure that grease from grease traps, illegal RCRA regulated wastes and other wastes violating new MSD Ordinance provisions are not

dumped into the MSD Sewerage System.

The Plant effluent was generally in compliance with NPDES Permit requirements for BOD or organic oxygen demand and total suspended solids until the latter part of July but has frequently been out of compliance since then. The problem has been traced, at least in part, to a food processor with a significant unpermitted increase in discharge strength. The problem has been magnified by a general increase in industrial, commercial and residential flow. Steps, being taken to resolve this problem in the interim until new treatment facilities are completed, include new Permit conditions and specific requirement discussions with the food processor and the pending purchase of additional aeration equipment to meet excess demand for oxygen in the Aeration Basins until the new treatment facilities are installed.

The Treatment Plant effluent was out of compliance for fecal coliform concentration at least once every month in 1987 except February. This problem has been at least partially attributable to construction upsets and to chlorinator malfunctions. Steps to resolve this problem include moving the point of chlorine disinfectant injection upstream to ahead of the Final Microscreens to provide more time for disinfection and the leasing of new Chlorinators to replace old malfunctioning equipment.

"(b) its recommendations as to:

(i) the proper maintenance, repair and operation of the Sewerage System during the ensuing fiscal year and an estimate of the amount of money necessary for such purposes."

It appears that an interim solution to the sludge disposal problem has been found and is satisfactorily being implemented. Nearing completion

is a project for the raising of the Sludge Lagoon dam and the installation of a more controllable system for discharging sludge into the Lagoon at selected points. These facilities are already improving the appearance of the Sludge Lagoon and the supernatant return to the Wastewater Treatment Plant. The cost of this work will be approximately \$200,000. Additional measures and expenditures may be necessary before permanent sludge disposal facilities are in place. The Series 1986A Bond Issue budgeted \$1,000,000 from the General Fund for interim sludge handling measures.

Few other deficiencies, other than those associated with the age of the facilities, were noted during the inspection. Recommendations for minor maintenance improvements and repairs have been given to the Engineer-Manager. Efforts are under way to employ three additional shift operators as recently authorized by the District Board. The availability of this additional staff will assist in maintenance of the old treatment facilities as well as phasing in operational requirements of new treatment facilities.

"(ii) the insurance to be carried under the provisions of Section 707 of this Order..."

The Asheville-Buncombe County Insurance Advisory Committee has provided a tabulation of policies and coverages currently in effect. The insurance being carried is consistent with recommendations made by the Consulting Engineers and the Asheville-Buncombe Insurance Advisory Committee.

"(iii) the additions, improvements, renewals and replacements which should be made during the ensuing fiscal year and an estimate of the amount of money necessary for such purposes."

Phase One of the four-phase Metropolitan Wastewater Treatment Plant expansion and upgrade is substantially complete and is in operation.

With a total estimated cost of \$11,300,000, the MSD share is expected to be approximately \$4,200,000. The MSD share was provided by receipts from the Series 1985A Bonds.

Phases 2 and 3 of the Metropolitan Plant Expansion project, which are currently being treated as one construction project, are now under construction with the general contractor on site as of February 20, 1988. The current estimated cost of these phases is approximately \$21,500,000. Assuming no changes in the current EPA grant status, the MSD share should be approximately \$9,400,000. MSD funds for this project are part of the Series 1986A Bonds proceeds.

Phase 4 of the Metropolitan Plant Expansion is the sludge handling and disposal phase. Design of dewatering and on-site incineration facilities is nearing completion. A State air discharge permit has been received for these proposed facilities. It is hoped that final approval for construction of these facilities will be received from EPA in the near future. Current estimates for the dewatering and on-site incineration scheme total approximately \$10,600,000 of which the MSD share should be approximately \$3,000,000, assuming no changes in the current status of the EPA grants and funding lists. MSD funds for this project are a part of the Series 1986A Bonds proceeds.

Schedules and costs for the projects in progress are subject to change due to factors beyond the control of MSD or the Engineers. However, the Engineers periodically reevaluate and update both schedules and estimates.

The South French Broad Relief Interceptor Project plans and specifications are complete. Easements acquisition work is in progress.

The current estimated cost is \$2,800,000 and funds for this project are projected in the MSD General Account. Construction should begin as soon as land rights are acquired.

The Carrier Bridge Pumping Station expansion is now under construction. The estimated cost for this project is approximately \$650,000 and funds for this project are projected in the General Account. The full capacity of this pumping station expansion should not be utilized until the Treatment Plant can handle the additional flow.

The Remote Flow Monitoring System and Syphon Improvement project is in final design review and easements are being acquired. Construction should begin this summer. The estimated cost of this project is approximately \$650,000 and funds for this project are in the General Account.

The Craggy Dam Hydroelectric Project generated its first power in August, 1986, and full power generation began in December, 1986. Trash build up at the intake structure trash rakes caused a more continuous problem than had been anticipated. An automatic trash removal mechanism and a new log boom, installed within the past year, have proved to be an effective solution to this problem. The cost of these projects, approximately \$85,000, was obtained from Series 1985A Bond proceeds.

"(iv) any necessary or advisable revisions of the rates, fees and charges referred to in Section 501 of this article or as the same may have been previously revised."

Current user rates are based on a Resolution effective September 15, 1987, adopting charges for the discharge of domestic wastewater and industrial wastes. Adjustments were made to industrial waste charges in

accordance with the annual User Charge Analysis conducted during July and August, 1987.

The annual User Charge Analysis dated September 15, 1987, recommended a domestic user charge rate increase. An increase to \$1.00/CCF was implemented in October of 1987. Domestic user charge rates will be evaluated again after the close of the Fiscal Year at the same time industrial user charge rates are evaluated.

We would like to express our continuing thanks and appreciation to Mr. W. H. Mull and to Mr. R. L. Cunningham, who have been most cooperative with our work as Consulting Engineers over the years.

Very truly yours,

HENDON ENGINEERING ASSOCIATES, INC.

By 
H. Dean Huber

HDH:f
R927BB.ANN

cc: Local Government Commission
Trustee

METROPOLITAN SEWERAGE DISTRICT
OF
BUNCOMBE COUNTY, NORTH CAROLINA

RESOLUTION

WHEREAS, the Metropolitan Sewerage District of Buncombe County (MSD) received from the Division of Environmental Management of the North Carolina Department of Natural Resources and Community Development, (DEM,NRCD) a Special Order by Consent dated December 17, 1986, pursuant to which the MSD has operated and continues to operate its wastewater treatment facility; and

WHEREAS, the United States Environmental Protection Agency adopted the National Municipal Policy Act, 49 F.R. 3832, on January 30, 1984 to assure compliance by publicly owned treatment works (POTW's) with the Federal Clean Water Act, 33 U.S.C. Section 1342; and

WHEREAS, the deadline for compliance by POTW's with the effluent limitations of the Clean Water Act is July 1, 1988; and

WHEREAS, the MSD Wastewater Treatment Facility has been identified by NRCD and DEM as a facility which will not be in compliance with the effluent limitations of the federal Clean Water Act due to extraordinary circumstances; and

WHEREAS, the MSD desires to continue operating its wastewater treatment facility; and

WHEREAS, the MSD is in the process of expanding and improving its wastewater

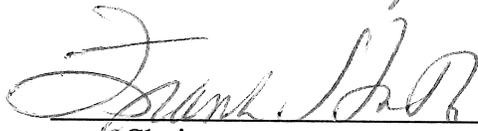
treatment capacity but will not complete the expansion and improvement by July 1, 1988;
and

WHEREAS, it is necessary for the MSD to enter into a Judicial Order by Consent with the DEM of NRCD in order to continue operating the MSD's wastewater treatment facility and continue expanding and improving the MSD's wastewater treatment capacity.

NOW, THEREFODRE, BE IT RESOLVED AS FOLLOWS:

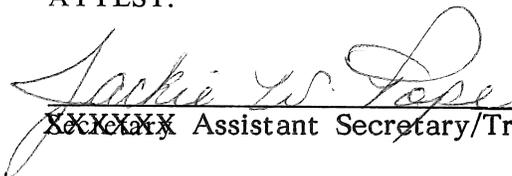
The MSD hereby respectfully petitions and requests the NRCD, DEM, that the MSD be allowed to enter into a Judicial Order by Consent to operate the MSD wastewater treatment facility in accordance with the terms and conditions contained in the "Consent Judgment" attached to this Resolution. In addition, the MSD would request that the NRCD, DEM, issue a letter pursuant to the provisions of North Carolina General Statutes 143-215.67(B), authorizing additional flow allocation in accordance with paragraphs 3, 4 and 5 of the Special Order by Consent dated December 17, 1986.

Duly adopted and effective this 19th day of April, 1988.



Chairman

ATTEST:



~~XXXXXXXX~~ Assistant Secretary/Treasurer