

METROPOLITAN SEWERAGE DISTRICT BOARD

April 21, 1981

The regular monthly meeting of the Metropolitan Sewerage District Board was held in the Boardroom of MSD's Administration Building at 2 p.m., Tuesday, April 21, 1981.

Vice-Chairman Williams called the meeting to order, and Mrs. Crowe called the roll. In addition to the Vice-Chairman, the following members were present: Messrs. Black, Boggs, Clark, Pope, Smith, and Warlick.

In addition to the Board members, the following attorney, consultants, and staff members were present: Mr. John S. Stevens; Messrs. Lew E. Hoffmann and Dean Huber; Mr. W. H. Mull and Mrs. Jan Crowe. Mr. Doug Thrash, right-of-way coordinator for MSD's interceptor sewer projects, also attended.

Mr. Clark moved that the Minutes of the March 17 meeting stand approved as written. Mr. Black seconded the motion, and voice vote was unanimous in favor of the motion.

Mr. W. H. Mull, Engineer-Manager, reported on the following:

- (a) Report on Weaverville permit and Rheem Manufacturing Company: Received as information by the Board.
- (b) Report on Crescent Hills permit and request for modification: Received as information by the Board.
- (c) Status report on Hominy Valley, South Buncombe, and Weaverville sewer projects: Mr. Mull told the Board that four additional parcels had been acquired in Hominy Valley, with five additional parcels acquired in South Buncombe, since the March 19 Board meeting. Eighteen cases in Hominy Valley and 15 cases in South Buncombe are under active condemnation. Of the 21 parcels to be acquired in Weaverville, title opinions have been received on 18. This report was received as information by the Board.
- (d) Ratification of action taken by Right-of-Way Review Committee: After a brief discussion, Mr. Smith moved that the Board ratify these actions and Mr. Black seconded the motion to accept the total report of the committee, which was to authorize monetary payment for easements over the following parcels on the South Buncombe Interceptor Sewer project: #19, Westfeldt, \$8,000; #90, Reid, \$2,200. Roll call vote was unanimous in favor of the motion.
- (e) Phase II, POTW Pretreatment Program Engineering Contract Amendment: Following discussion, Mr. Boggs moved that the Board approve the amendment dated April 16, 1981, (which authorizes a payment of \$68,500 to the consulting engineers for preparing Phase II of the POTW Pretreatment Program Plan) and authorize the Vice-Chairman to execute same on behalf of the Board. Mr. Smith seconded the motion, and roll call vote was unanimous in favor of the motion.
- (f) Proposal for evaluation of hydroelectric facilities (feasibility study): Mr. Richard S. Woodruff of Birmingham reported to the Board on his findings, saying the project would cost in the neighborhood of between \$3.5 and \$4.5 million and would produce approximately 2.6 megawatts of power. After Mr. Woodruff's report, Mr. Smith moved that the Board direct Mr. Stevens to check with MSD's bonding attorneys and determine the possibilities of financing the power project on the French Broad at MSD's dam and that the Engineer-Manager instruct the consulting engineers (Harry Hendon and Associates) to prepare for the Board a firm proposal for the cost of a feasibility study. Mr. Black seconded the motion, and roll call vote was unanimous in favor of the motion.

- (g) Follow-up report on protest filed by Carlon, a division of Indian Head, Inc., regarding procurement procedure with respect to Hominy Valley Interceptor Sewer project: Mr. Stevens told the Board that the EPA must make a ruling by April 26 and that MSD has until May 4 to award the bid as received from CFW Construction Company. He also said that CFW Construction Company and Metromont Materials Company have filed supporting documents with the EPA and that he will keep Mr. Mull and the Board apprised of developments.
- (h) Annual Report of Consulting Engineers: Mr. Lew E. Hoffmann presented the Annual Report by Harry Hendon and Associates to the Board. A copy of that report is attached herewith and thereby made a part of these Minutes.
- (i) Report on odors at MSD's Main Plant: Mr. Mull told the Board that attempts are being made to raise the level of the sludge lake approximately two feet and that sodium bicarbonate is being applied to the lake in an attempt to promote algae growth.
- (j) Amend Fiscal Year 1980-81 Budget: After discussion, Mr. Pope moved that the Board amend the 1980-81 budget as presented by Mr. Mull. Mr. Boggs seconded the motion, and roll call vote was unanimous in favor of the motion. A copy of the amended budget is attached herewith and thereby made a part of these Minutes.
- (k) Right-of-Way over Richards A. Crowell property on the proposed Hominy Valley Interceptor Sewer project: Mr. Warlick moved that the MSD pay for any damage to growing corn crops on Mr. Crowell's land during the time of construction, and not thereafter, at the actual cost of corn lost, the same not to exceed \$400 per acre. Mr. Smith seconded the motion, and roll call vote was unanimous in favor of the motion.

Mr. Smith then moved that the Board enter Executive Session for the purpose of considering the Preliminary Budget for Fiscal Year 1981-82. Mr. Boggs seconded the motion, and voice vote was unanimous in favor of the motion. The Board entered Executive Session at 3:38 p.m.

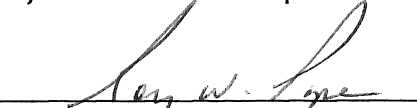
At 3:47 p.m., Vice-Chairman Williams reconvened the regular session. Mr. Smith then moved that the Board adopt the proposed Preliminary Budget as submitted by the Budget Committee. Mr. Warlick seconded the motion, and roll call vote was unanimous in favor of the motion. A copy of the Preliminary Budget is attached herewith and thereby made a part of these Minutes.

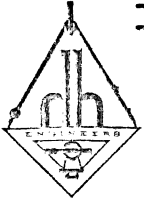
Mr. Pope moved that the Board set a public hearing on the FY 1981-82 Budget for May 19 to be held during the Board's regular monthly meeting and that the Board authorize publication of the public hearing by Mr. Stevens. Mr. Boggs seconded the motion, and roll call vote was unanimous in favor of the motion.

At the March 17 meeting, a copy of the Resolution Concerning the Responsibilities of the Metropolitan Sewerage District of Buncombe County under the 208 Areawide Water Quality Management Plan with Respect to Sewage Collector and Interceptor Lines was given to the Board members for consideration at the April 21 meeting. Corrections in completion of names of units were made, those being Christmount Christian Assembly, Lutheridge Camp and Conference Center, and Ridgecrest Baptist Conference Center. Mr. Mull also pointed out that Mr. Griffith had noted that the words "sewage" and "sewerage" were misused in the resolution. Mr. Smith moved that the Board adopt this resolution in its entirety, and Mr. Pope seconded the motion. Roll call vote was unanimous in favor of the motion. A copy of the resolution is attached herewith and thereby made a part of these Minutes.

Date of the next regular meeting of the MSD Board will be May 19, 1981, at which time a public hearing will be held on Fiscal Year 1981-82 Budget.

There being no further business, the meeting was adjourned at 4:07 p.m.


Secretary



Harry Hendon and Associates

INCORPORATED
ENGINEERS

TELEPHONE (704) 274-7711

ADDRESS REPLY TO P. O. BOX 5176

25 REED STREET · ASHEVILLE, NORTH CAROLINA 28813

HARRY H. HENDON
(1904 - 1973)

L. E. HOFFMANN
A. B. JOWERS
H. D. HUBER

S. C. BOYD
H. E. BYAS, JR.

April 10, 1981

Metropolitan Sewerage District
Buncombe County, North Carolina
P. O. Box 7413
Asheville, North Carolina 28807

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

Gentlemen:

Section 505 of the Resolution authorizing the Sewage Disposal System's Bonds for the Metropolitan Sewerage District of Buncombe County requires the Consulting Engineer to prepare and file with the District Board, the Local Government Commission, the Engineer-Manager and the Trustee, on or before the 15th day of April in each year, a report setting forth the following:

"(a) their advices and recommendations as to 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";

The Main Wastewater Treatment Plant consistently met the provisions of the NPDES Permit until December, 1980 when excessive, illegal industrial wastes discharges began to upset plant operation. An extensive industrial monitoring and surveillance program has just been initiated which should identify and correct this problem and enable the plant to perform satisfactorily once again. The plant is at its design capacity and is soon to be expanded. To that end, two activities are underway.

- (1) A project to optimize plant performance and to permit it to operate beyond its design capacity has been funded by the State and EPA. Results of this study should be available in the near future.
- (2) Updated flow and load projections have been made and are awaiting State approval. As soon as this approval is received, an amendment to the Facility Plan will be prepared, after which design work for the planned plant expansion can begin.

Asphalt pavement at the Main Plant was resurfaced during the past year. These roadways are now in good shape.

Further efforts should be made to catch up with plant maintenance and to begin a true preventive maintenance program. The Operation and Maintenance Manual is now available and should be utilized in implementing this program.

We have furnished the Engineer-Manager a list of maintenance items requiring correction, or the replacement of equipment, noted during our inspection of the system on March 17 and 19, 1981. Most of the problems have been recognized and parts are either on hand or on order to make needed repairs.

Phase I of the Sewer System Evaluation Survey (SSES) for which funds were available in 1977 has been completed. Final reports on this work should be available soon.

Additional funding for Phase I SSES in the amount of \$367,899 was approved in January, 1981. This work is in progress.

Work is expected to proceed, subject to EPA and Local Government financing arrangements, with Phase 2 SSES and preparation of rehabilitation

plans and specifications during fiscal year 1981-82. The estimated cost for this EPA grant eligible work is approximately \$350,000. In accordance with past financing arrangements, MSD's share of this cost should not be more than \$1,000.

In February, 1981, grant applications were filed with the State and EPA for the following projects:

1. Step III - Metropolitan Plant upgrade
2. Step II - Metropolitan Plant Expansion
3. Step II - North Swannanoa Interceptor Sewer Improvements
4. Step II - South French Broad Relief Interceptor and Carrier Bridge Pumping Station Expansion
5. Step II - South Swannanoa, Sweeten Creek, Reed Creek, and Beaverdam Creek Interceptor Sewer Improvements

The amount of MSD money necessary for the above purposes is estimated to be approximately \$5,909,025, as follows:

	Estimated Funds Required			
	<u>EPA</u>	<u>STATE</u>	<u>LOCAL</u>	<u>MSD</u>
Metropolitan Plant Upgrade	\$ 3,618,750	\$ 603,125	\$ 0	\$ 793,125
Metropolitan Plant Expansion	18,000,000	3,000,000	0	3,000,000
No. Swannanoa Interceptor	13,102,000	2,183,700	\$1,274,650	1,274,650
So. French Broad Relief & Carrier Bridge P.S. Expansion	2,609,850	433,475	0	532,175
So. Swannanoa, Sweeten Creek, Reed Creek, & Beaverdam Creek Interceptor Sewer Improvements	<u>2,762,900</u>	<u>460,500</u>	<u>309,075</u>	<u>309,075</u>
	\$40,084,500	\$6,680,800	\$1,583,725	\$5,909,025

In addition to the above projects, an application has been prepared for a Department of Energy (DOE) loan for a Feasibility Study to develop hydro-electric generating capability at the existing dam in the French Broad River in front of the Metropolitan Plant. These federal funds are no longer available;

however, it is believed that the project will be financially feasible based on preliminary evaluation and that MSD should proceed with their own funds for this study. This Feasibility Study is estimated to cost not more than \$25,000. It appears at this point that the project could have substantial financial returns for the District.

"(b) their advices and recommendations as to the extensions, improvements, renewals and replacements which should be made during the ensuing fiscal year, and their recommendations as to the amount that should be deposited during the ensuing fiscal year to the credit of the Repair and Extension Fund for such purposes";

Flow and load projections have been completed and submitted to the State for approval. When approval is received, final revisions to the Facility Plan can be completed. Approval of the Facility Plan will then permit application for a design grant for the plant expansion.

The Oil Storage Building was constructed last summer. The final cost of this construction was \$35,095.

The Hominy Valley Interceptor Sewer project was redivided into three construction phases. Bids were opened for the first phase in March, 1981, with a low bid of \$1,269,744. However, a protest has been filed by a plastic pipe manufacturer, as EPA regulations provide for, and award of the contract is pending a resolution of this matter. Advertisement of the second phase will begin as soon as the protest is settled. No change is anticipated in the total construction estimate of \$5,525,000 which is to be shared jointly with the State, EPA, Buncombe County, and the District.

Plans for intercepting sewers for South Buncombe County were submitted to the State and EPA for review in 1980. Comments on the review were received in April, 1981. Appropriate changes to the plans are in progress and the Step III grant offer should be made within the next month. Easement acquisition is progressing well and Phase 1 of the project should be ready

to advertise as soon as the grant offer is made and accepted. The estimated cost of construction for this project is approximately \$4,000,000, which will be shared by the State, EPA, Buncombe County, Henderson County, and the District.

Plans for the Weaverville Pumping Station/Force Main System are nearing completion. Easement acquisition has started. The cost of the design work is \$32,480 which is shared by the State and EPA. Construction is expected to start in the latter part of 1981, with an estimated construction cost of approximately \$700,000. Construction cost is also expected to be shared by the State and EPA.

Funds on deposit in the Repair and Extension Fund totaled \$1,654,055 as of February 20, 1981, and are adequate to meet the requirements for the ensuing fiscal year. The buildup in the Repair and Extension Fund to \$2,000,000 as recommended previously is still considered a valid goal.

"(c) their advices and recommendations as to the insurance to be carried under the provisions of Section 706 of this Resolution";

We have obtained from the District's insurance carrier a tabulation of the policies and coverages currently in effect. The insurance being carried is in accordance with our recommendations as required by Section 706 of the Bond Resolution.

"(d) their recommendations as to any necessary or advisable revisions of the sewage disposal charges, and";

Current sewer rates are based on a Resolution effective July 1, 1975, 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, 1980.

"(e) their findings whether the properties of the Sewerage System have been maintained in good repair and sound operating condition, and their estimate of the amount, if any, required to be expended to place the System in such condition and the details of such expenditures and the approximate time required therefor".

Much of the MSD wastewater treatment system appears in a better condition than it did one year ago. Problems with illegal industrial wastes discharges and loads at or beyond design capacities contribute to operational and maintenance problems. Although maintenance is still on an immediate need basis, it is hoped that a preventive maintenance mode will soon be attained.

Progress is being made toward a sound modern operation and maintenance program through staff efforts and EPA funded projects which are at various stages of planning or completion.

Most all of the deficiencies noted during the inspection are currently undergoing repair or are awaiting parts. Other recommendations for minor maintenance improvements and repairs have been given to the Engineer-Manager.

Performance of the Weaverville Plant continues to be much better than it had been in the past years. However, effluent BOD failed to meet permit requirements of 30 mg/l more than half of the time and suspended solids never met the effluent requirement of 30 mg/l. This in spite of what appeared to be a beautifully clear effluent on the day of the inspection. With additional process monitoring and careful operational controls, this plant should be able to meet discharge requirements.

Because of its overloaded condition, the Crescent Hills Plant does not meet the effluent requirements of 30 mg/l BOD and suspended solids. Recent and planned modifications to this plant and to its operating procedures should, however, enable it to meet discharge requirements during dry weather. As has

been reported to the State, there is no way to meet those requirements during heavy periods of rain. A request for a bypass of excess flow has been submitted to the State for consideration. Without this permission, there appears to be no reasonable way to bring this plant into compliance until the South Buncombe County Interceptor is completed and placed in service.

Easements are now being acquired to construct the South Buncombe Interceptor Sewer. Completion of this interceptor will result in the abandonment of the Crescent Hills Treatment Plant.

Phase 1 of the Industrial Pretreatment Program Plan is nearing completion at an estimated cost of approximately \$42,000. As a part of this effort, revisions to the MSD Regulations have been drafted and a Public Hearing held. After State and EPA approval, the changes will be submitted to the Board for consideration for adoption.

As reported in the previous years report, MSD has been tentatively designated as the Management Agency for all publicly-owned wastewater collection and treatment systems in Buncombe County under the 208 Areawide Wastewater Management Program developed by the Land-of-Sky Regional Council. The results of this program could be some form of sewer system consolidation. The MSD staff continues to participate with representatives of other sewer system owners in a study to determine the feasibility, and potential mechanisms for the creation of a consolidated system under MSD. Costs to MSD resulting from this activity are unknown at this time. However, MSD should continue to participate and maintain an active role in the formulation of the plan. Over the past six months, the staff has been working with the District's Bond Attorneys developing a Resolution of Intent that will outline the conditions under which the MSD would be willing to undertake the lead in a consolidation effort. This Resolution should be carefully reviewed and well understood prior to adoption.

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,

HARRY HENDON AND ASSOCIATES, INC.

By 

L. E. Hoffmann, President

LEH:h

cc: Local Government Commission
Trustee

MSD Metropolitan Sewerage District of Buncombe County, North Carolina.

W. H. Mull, P.E., Engineer-Manager
P.O. Box 7157, Asheville, N. C. 28807
Telephone: Area Code 704-255-5382

John S. Stevens, General Counsel



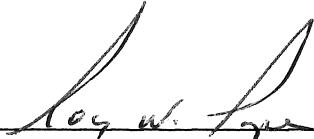
C. LeRoy Robinson, Chairman
M. Leon Williams, Vice-Chairman
Michael L. Black
Walter J. Boggs
Ben Clark
Paul E. Griffith
D. Frank Hyatt
Roy W. Pope
Frank S. Smith III
Paul W. Warlick

April 21, 1981

I, Roy W. Pope, Secretary to the District Board of the Metropolitan Sewerage District of Buncombe County, North Carolina, DO HEREBY CERTIFY that the attached copy is a true and correct copy of the AMENDED 1980-91 BUDGET adopted by the Metropolitan Sewerage District Board at its regular meeting held May 20, 1980.

WITNESS my hand and seal of said District this 21 day of April,
1981.

Signed by _____


Secretary to the Board
Metropolitan Sewerage District
of Buncombe County

OPERATION AND MAINTENANCE FUND--STATEMENT OF CASH RECEIPTS AND DISBURSEMENTS

FOR THE MONTH OF _____ AND _____ MONTH ENDED _____ COMPARED WITH PREVIOUS YEAR

<u>AMENDED</u>	<u>1980-81 Budget</u>	<u>Current Year</u>		<u>Prior Year</u>	
		<u>Month</u>	<u>Month</u>	<u>Month</u>	<u>Month</u>
		Month of _____	Ended _____	Month of _____	Ended _____
Salaries	87,675	_____	_____	_____	_____
Billing & Collections	50,000	_____	_____	_____	_____
Telephone & Telegraph	2,760	_____	_____	_____	_____
Travel & Convention Expenses	4,000	_____	_____	_____	_____
Office Supplies	5,500	_____	_____	_____	_____
Power & Water	3,000	_____	_____	_____	_____
Directors' Fees & Expenses	7,500	_____	_____	_____	_____
Insurance	28,900	_____	_____	_____	_____
Dues & Subscriptions	2,100	_____	_____	_____	_____
Accounting Service @ 1% of Payroll	3,750	_____	_____	_____	_____
Consulting Engineers	8,000	_____	_____	_____	_____
Legal Fees & Expenses	24,000	_____	_____	_____	_____
Trustee Fees	5,840	_____	_____	_____	_____
Audit	2,600	_____	_____	_____	_____
Postage & Petty Cash	1,500	_____	_____	_____	_____
Repairs--Office Equipment	500	_____	_____	_____	_____
Social Security Taxes @ 6.50%	24,550	_____	_____	_____	_____
Contributions--Retirement Fund 7.98%	29,700	_____	_____	_____	_____
Vehicle Expenses	4,800	_____	_____	_____	_____
Capital Outlay (Equipment)	3,000	_____	_____	_____	_____
Contingency	4,850	_____	_____	_____	_____
<u>Total Administrative & General</u>	<u>304,525*</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>

DISBURSEMENTS CONTINUED

AMENDED

	<u>1999</u> <u>Budget</u>	Current Year: Month of _____ Ended _____	Prior Year: Month of _____ Ended _____
Salaries & Wages	290,000	_____	_____
Chemicals	48,000	_____	_____
Telephone	1,500	_____	_____
Power & Lights	264,000	_____	_____
Maintenance Supplies & Small Tools	5,800	_____	_____
Water	12,800	_____	_____
Vehicle Expense	13,000	_____	_____
Laboratory Supplies	5,000	_____	_____
Uniform Service	3,100	_____	_____
Schools	2,500	_____	_____
Maintenance (Buildings & Grounds)	15,000	_____	_____
Maintenance (Pipeline)	5,000	_____	_____
Maintenance (Equipment)	66,100	_____	_____
Capital Outlay--New	15,000	_____	_____
Equipment Replacement	25,000	_____	_____
Contingency	3,000	_____	_____
Total Operations Expenditures	774,800*	_____	_____
<u>Total Disbursements</u>	<u>1,079,325**</u>	_____	_____
Transfer Interest to Revenue		_____	_____
<u>Total</u>		_____	_____
Receipts:			
<u>Transfer from Revenue Fund</u>		_____	_____
<u>Others:</u>		_____	_____
<u>Total Receipts</u>		_____	_____
Excess of Receipts over Disbursements		_____	_____
<u>(Disbursements over Receipts)</u>		_____	_____
Cash Balance:			
<u>Beginning of Period</u>		_____	_____
<u>Ending of Period</u>		_____	_____

*The current expenses for each month are estimated to be one-twelfth (1/12) of the annual budget.

**Estimated revenue to be collected from sewer service charges for this fund equal to \$1,079,325.

MSD Metropolitan Sewerage District of Buncombe County, North Carolina.

W. H. Mull, P.E., Engineer-Manager
P.O. Box 7157, Asheville, N. C. 28807
Telephone: Area Code 704-255-5382

John S. Stevens, General Counsel



C. LeRoy Robinson, Chairman
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D. Frank Hyatt
Roy W. Pope
Frank S. Smith III
Paul W. Warlick

April 21, 1981

I, Roy W. Pope, Secretary to the District Board of the Metropolitan Sewerage District of Buncombe County, North Carolina, DO HEREBY CERTIFY that the attached copy is a true and correct copy of the resolution adopted by the Metropolitan Sewerage District Board at its regular meeting held April 21, 1981.

WITNESS my hand and seal of said District this 21 day of April, 1981.

Signed by _____


Secretary to the Board
Metropolitan Sewerage District of
Buncombe County