

MINUTES OF THE METROPOLITAN SEWERAGE DISTRICT BOARD

APRIL 18, 1978

The regular monthly meeting of the Metropolitan Sewerage District Board was held in the Boardroom of MSD's Administration Building, Highway 191 North, at 2 p.m., Tuesday, April 18, 1978.

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

In addition to the Board members, the following consultants and staff members were present:

Mr. Anthony Redmond
Mr. Lew E. Hoffmann
Mr. Dean Huber
Mr. W. H. Mull
Mrs. Jan Crowe
Mrs. Linda Duncan

Mr. Edward G. Roberts, Assistant Clerk of Superior Court, administered the Oath of Office to Mr. Walter J. Boggs, who was appointed by the City of Asheville to serve the unexpired term of Mr. George E. Dawson, said term expiring January 19, 1980.

The members having received copies of the Minutes of the March 14 meeting, Mr. Smith moved that the Minutes stand approved as written. Mr. Clark seconded the motion, and voice vote was unanimous.

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

- (a) Proposal for second Industrial Waste Monitoring Unit: Mr. Mull presented to the Board a memorandum setting forth the cost of establishing a second mobile industrial monitoring unit for FY 1978-79. During discussion regarding the need for this second unit, Messrs. Dillingham and Warlick told the Board that the cost of such a unit is rising constantly and that there is a waiting period of from five to six months for delivery. The question was raised as to whether there is enough money in FY 1977-78 budget to cover the cost of the mobile unit and the required equipment for same. Mr. Mull confirmed that there is enough budgeted for this cost in the current budget but that Part III of the memorandum, Wages, should not be considered for the FY 1977-78 budget but should be included in FY 1978-79. Mr. Redmond asked Mr. Hoffmann if he, as consulting engineer, felt this second unit was needed. Mr. Hoffmann stated that he did and that such information was contained in the Annual Report he would present later in the meeting. Mr. Clark then moved the motion that Mr. Mull be authorized by the Board to proceed with drawing up specifications and to advertise for bids for a van with equipment as specified in the memorandum, Parts I and II, (copy attached) and for cost of same to be taken from the budget for FY 1977-78. Mr. Warlick seconded the motion, and roll call vote was unanimous.

- (b) Budget revision: Mr. Mull reported to the Board that line item "Office Supplies" had been budgeted for \$4,000 and that \$3,550.88 had been spent; that line item "Postage & Petty Cash" had been budgeted for \$750 and that \$729.20 had been spent; that line item "Maintenance Supplies" had been budgeted for \$2,200 and that \$2,345.80 had been spent; and that line item "Water" had been budgeted for \$4,000 and that \$4,413.37 had been spent. (These expenditures were as of March 31, 1978.) Explanation given in regard to these figures by Mr. Mull included extra expenditures for office supplies for the Administration Building, extra postage in connection with the Sewer Use Revisions already incurred and even more to be incurred when the new books are mailed to industries, additional maintenance supplies for the Administration Building, and an increase in water rates last year by Woodfin Sanitary Water and Sewer District. Mr. Mull requested an increase for item "Office Supplies" from \$4,000 to \$5,000 (an increase of \$1,000) and an increase in item "Postage & Petty Cash" from \$750 to \$1,200 (an increase of \$450), which would result in a decrease from \$9,300 to \$7,850 (a decrease of \$1,450) in "Contingency"; further, an increase from \$2,200 to \$3,000 (an increase of \$800) for item "Maintenance Supplies" and an increase for item "Water" from \$4,000 to \$5,250 (an increase of \$1,250), which would result in a decrease from \$12,000 to \$9,950 in "Contingency." Mr. Smith moved the motion that this budget revision be adopted by the Board, and Mr. Hyatt seconded the motion. Mr. Hoffmann, when questioned by Mr. Redmond, said he agreed with the suggested revisions and will send a letter of approval to the Board. Roll call vote was unanimous for adoption of the amended budget. A copy of the Resolution amending the Annual Budget and a copy of the Amended Budget are attached to and made a part of these Minutes.
- (c) Status of Administration Building project: Mr. Mull told the Board that the project is not complete as of this date; that the fence work is not satisfactory; that seeding of grass is not satisfactory; that landscaping is not satisfactory in that plantings were not watered nor mulched when set out and has resulted in some plants already being dead; that the smoothing of grounds where the sewer line was dug has not been completed; and that the heating and air conditioning system is not working properly. Mr. Mull added that final payment is being withheld from Traber Associates (the architects), Price-Ray (general contractor), Industrial Maintenance Overflow (plumbing contractor), and M. B. Haynes (electrical contractor). Total retainage being withheld is \$17,342.70. After discussion, Mr. Mull was instructed by Mr. Redmond to contact the architects, have them give a complete report as to the status of the above, and to tell them the

Board requested this; further, Mr. Redmond instructed Mr. Mull to withhold any final payment funds which MSD might be holding until the work is completed satisfactorily.

- (d) Proposed benefit revisions--Local Governmental Employees' Retirement System: These proposed revisions will go before the General Assembly and will provide additional benefits for MSD employees (copy attached and made a part of these Minutes). If they are adopted, employer rates to be effective July 1, 1978, will rise from 7.44% to 7.80%, which would amount to approximately \$600 per year for MSD. After discussion, Mr. Clark moved that the Board, as a participating local unit, endorse the proposed changes. Mr. Dillingham seconded the motion, and roll call vote was unanimous.
- (e) Annual Report of Consulting Engineers: The Annual Report, as required by MSD's Bond Resolution, is prepared annually on or before April 15 and is presented to the MSD Board at its next regular meeting thereafter by Harry Hendon & Associates, Inc. At the request of Mr. Mull, Mr. Lew E. Hoffmann presented the report to the Board, said Annual Report being attached and thereby made a part of these Minutes. After the presentation, Mr. Mull recommended that three essential items be taken care of immediately, according to Mr. Hoffmann's recommendations. Mr. Smith moved that the Board direct Mr. Mull and Mr. Redmond to proceed with the recommendations of MSD's consulting engineers to follow through with their recommendations and that Mr. Mull set the priorities on these as he sees fit as, obviously, they all could not be done at one time, and that the Board direct Mr. Mull to set his own priorities on these and begin immediately to prepare design work and prepare applications for federal grants to help finance these projects. Mr. Clark seconded the motion, and roll call vote was unanimous.
- (f) Paintings and prints for the Administration Building: Mr. Mull requested the Board to view the prints which were hanging in the entrance, in the reception/secretarial area, and in the library and the paintings on display in the Boardroom. (After viewing the prints and paintings, it was the concensus of the Board to purchase the prints which were hanging but to delay the purchase of a painting for the Boardroom to allow another local artist to show suitable paintings for consideration of the Board.)

Vice-Chairman Williams appointed a Budget Committee for Fiscal Year 1978-79, those members being Messrs. Hyatt, Smith, and Warlick. Mr. Hyatt is Chairman of the committee.

As approved at MSD's March 14 meeting, Vice-Chairman Williams and Mr. Clark, Secretary, executed an agreement with Carolina Power and Light to relocate high voltage transmission lines at the MSD plant.

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April 18, 1978

At its February meeting, the Board requested that Mr. Redmond prepare a Resolution commending Mr. Dawson for his many years of service to the MSD Board. Due to failing health, Mr. Dawson had resigned from the Board, effective January 31, 1978. However, before the Resolution could be prepared, Mr. Dawson died. Mr. Redmond then prepared a draft of Resolution for the Board's consideration; and, after Mr. Redmond read the draft to the Board, Mr. Warlick moved that the Resolution be adopted and made a part of these Minutes and a copy sent to Mr. Dawson's family. Mr. Hyatt seconded the motion, and voice vote was unanimous. A copy of the Resolution is attached and thereby made a part of these Minutes.

Date of the next regular meeting of the MSD Board was set for May 16, however, due to the constraints of MSD's Bond Resolution and upon Mr. Redmond's advice, Mr. Mull requested that the May 16 meeting be changed to Tuesday, May 2 (this is for submission of a Preliminary Budget which must be transmitted to the Consulting Engineers and Trustee by May 15). Since a public hearing for the budget is required on or before June 15, Mr. Mull further requested that the June meeting be moved up from the scheduled date of June 20 to June 13 and the public hearing held on that date. Mr. Clark moved that the Board change the meetings for May and June to the dates according to Mr. Mull's request, and Mr. Boggs seconded the motion. Voice vote was unanimous; the May meeting will be held May 2, and the June meeting will be held June 13.

There being no further business, the meeting was adjourned at 3:05 p.m.

Ben H. Clark
Secretary

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 704-255-5383

Anthony Redmond, General Counsel



C. LeRoy Robinson, Asheville
Chairman
M. Leon Williams, Buncombe Co.
Vice-Chairman
George E. Dawson, Asheville
Paul W. Warlick, Biltmore Forest
Ben Clark, Weaverville
D. Frank Hyatt, Asheville
Larry S. McDevitt, Buncombe Co.
Frank S. Smith III, Buncombe Co.
P. P. Dillingham, Woodfin
Paul E. Griffith, Black Mountain

MEMORANDUM

TO: Mr. W. H. Mull, P.E., Engineer-Manager
FROM: R. C. Ensley, Industrial Waste Branch *RC*
SUBJECT: Summary of Cost for Establishing Industrial Monitoring Unit for FY 1978-79

I. EQUIPMENT

Vehicle, van-type, similar to Dodge B-100, 127" wheel base, V-8, all windows, non-slip rear axle, radio.....	\$ 5,100
2 pH recording meters.....	1,000
1 portable pH meter.....	175
Gas Tech oxygen & combustible gas meter...	870
8 5-gallon Carboys, polyethylene, with handles.....	80
10 Igloo round ice chests.....	110
Rope, nylon.....	120
Safety harness.....	36
2 safety vests.....	7
First Aid Kit.....	13
Fire Extinguisher.....	12
2 flashlights.....	7
Signs, "Danger--Keep Away".....	16
2 rainsuits.....	30
Dissolved Oxygen Supply Kit.....	25
Tygon tubing.....	35
Rubber stoppers & stopcocks, needle-type..	37
Hammer, pliers, screwdriver, shovel, pick, blade, bucket.....	30
Vehicle fabrication materials, wood, screws, etc.....	<u>80</u>
Sub-total, Equipment.....	\$ 7,783

II. EXPENDABLE SUPPLIES & OPERATION EXPENSES

6 pH Probe Units.....	\$ 152
Soap, deodorant, towels, etc.....	20
Ice for sample collection.....	144
Vehicle operating expenses: gas, oil, tires, maintenance.....	<u>1,200</u>
Sub-total, Expendable Supplies & Operation Expenses.....	\$ 1,516

III. WAGES

2 monitoring technicians @ \$3.80/hour.....	\$15,808
Sub-total, Wages.....	<u>\$15,808</u>

GRAND TOTAL (excluding fringe benefits, laboratory costs, hospital, etc.).....\$25,107

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April 18, 1978

I, Ben H. Clark, 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 1977-78 BUDGET adopted by the Metropolitan Sewerage District Board at its regular meeting held April 18, 1978.

WITNESS my hand and seal of said District this 18 day of April, 1978.

Signed by Ben H. Clark

Secretary
Metropolitan Sewerage District
of Buncombe County

OPERATION AND MAINTENANCE FUND--STATEMENT OF CASH RECEIPTS AND DISBURSEMENTS
 FOR MONTH OF _____ AND _____ MONTH ENDED _____ COMPARED WITH PREVIOUS YEAR

AMENDED	1977-78 BUDGET	CURRENT YEAR		PRIOR YEAR	
		MONTH OF _____	ENDED _____	MONTH OF _____	ENDED _____
SALARIES.....	64,600	_____	_____	_____	_____
BILLING & COLLECTIONS.....	50,000	_____	_____	_____	_____
TELEPHONE & TELEGRAPH.....	1,000	_____	_____	_____	_____
TRAVEL & CONVENTION EXPENSES.....	3,000	_____	_____	_____	_____
OFFICE SUPPLIES.....	5,000	_____	_____	_____	_____
POWER & WATER.....	2,400	_____	_____	_____	_____
DIRECTORS' FEES & EXPENSES.....	3,200	_____	_____	_____	_____
INSURANCE.....	16,000	_____	_____	_____	_____
DUES & SUBSCRIPTIONS.....	1,500	_____	_____	_____	_____
ACCOUNTING SERVICE @ 1% of Payroll	3,200	_____	_____	_____	_____
CONSULTING ENGINEERS.....	7,000	_____	_____	_____	_____
LEGAL FEES.....	15,000	_____	_____	_____	_____
TRUSTEE FEES.....	5,000	_____	_____	_____	_____
AUDIT.....	2,000	_____	_____	_____	_____
POSTAGE & PETTY CASH.....	1,200	_____	_____	_____	_____
REPAIRS--OFFICE EQUIPMENT.....	300	_____	_____	_____	_____
SOCIAL SECURITY TAXES @ 5.85%.....	15,500	_____	_____	_____	_____
CONTRIBUTIONS--RETIREMENT FUND 7.4%	19,600	_____	_____	_____	_____
VEHICLE EXPENSES.....	3,900	_____	_____	_____	_____
CAPITAL OUTLAY (EQUIPMENT).....	2,000	_____	_____	_____	_____
CONTINGENCY.....	7,850	_____	_____	_____	_____
TOTAL ADMINISTRATIVE & GENERAL....	<u>229,250*</u>	=====	=====	=====	=====

AMENDED

DISBURSEMENTS CONTINUED

PLANT OPERATION EXPENDITURES	1977-78 BUDGET	CURRENT YEAR:		PR. YEAR:	
		MONTH OF _____	ENDED _____	MONTH OF _____	ENDED _____
SALARIES & WAGES.....	200,000	_____	_____	_____	_____
CHEMICALS.....	59,000	_____	_____	_____	_____
TELEPHONE.....	1,500	_____	_____	_____	_____
POWER & LIGHTS.....	190,000	_____	_____	_____	_____
MAINTENANCE SUPPLIES.....	3,000	_____	_____	_____	_____
WATER.....	5,250	_____	_____	_____	_____
VEHICLE EXPENSE.....	7,000	_____	_____	_____	_____
LABORATORY SUPPLIES.....	2,500	_____	_____	_____	_____
UNIFORM SERVICE.....	1,300	_____	_____	_____	_____
SMALL TOOLS & SUPPLIES.....	1,000	_____	_____	_____	_____
MAINTENANCE (BUILDINGS & GROUNDS).	11,000	_____	_____	_____	_____
MAINTENANCE (PIPELINE).....	25,000	_____	_____	_____	_____
MAINTENANCE (EQUIPMENT).....	55,000	_____	_____	_____	_____
CAPITAL OUTLAY--NEW.....	13,000	_____	_____	_____	_____
EQUIPMENT REPLACEMENT.....	35,000	_____	_____	_____	_____
CONTINGENCY.....	9,950	_____	_____	_____	_____
TOTAL OPERATIONS EXPENDITURES.....	619,500*	_____	_____	_____	_____
TOTAL DISBURSEMENTS.....	<u>848,750**</u>	_____	_____	_____	_____
RECEIPTS:					
TRANSFER FROM REVENUE FUND.....		_____	_____	_____	_____
OTHERS: _____.....		_____	_____	_____	_____
TOTAL RECEIPTS.....		_____	_____	_____	_____
EXCESS OF RECEIPTS OVER DISBURSEMENTS.....		_____	_____	_____	_____
(DISBURSEMENTS OVER RECEIPTS).....		_____	_____	_____	_____
CASH BALANCE:					
BEGINNING OF PERIOD.....		_____	_____	_____	_____
ENDING OF PERIOD.....		_____	_____	_____	_____

*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 \$848,750.

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Paul E. Griffith, Black Mountain

April 18, 1978

I, Ben H. Clark, 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 18, 1978.

WITNESS my hand and seal of said District this 25 day of April, 1978.

Signed by Ben H. Clark

Secretary to the Board
Metropolitan Sewerage District
of Buncombe County

RESOLUTION

WHEREAS, the Metropolitan Sewerage District Board passed a Resolution at its regular meeting held April 18, 1978, adopting an Amended Operation and Maintenance Budget for the Fiscal Year 1977-78; and

WHEREAS, increases necessary to meet the operating requirements of the Metropolitan Sewerage District of Buncombe County, North Carolina, consisting of line item "Office Supplies" from \$4,000.00 to \$5,000.00 and increasing line item "Postage & Petty Cash" from \$750.00 to \$1,200.00, thereby decreasing line item "Contingency" from \$9,300.00 to \$7,850.00; also increasing line item "Maintenance Supplies" from \$2,200.00 to \$3,000.00 and increasing line item "Water" from \$4,000.00 to \$5,250.00, thereby decreasing line item "Contingency" from \$12,000.00 to \$9,950.00, this being the same Preliminary Budget which was presented at the regular Board meeting on April 22, 1977, currently lying on the table and totaling \$848,750.00, of which the estimated monthly budget is equal to one-twelfth (1/12) of the total budget;

NOW, THEREFORE, BE IT RESOLVED by the Metropolitan Sewerage District Board of Buncombe County that the April 18, 1978, Resolution adopting the Amended Operation and Maintenance Budget for Fiscal Year 1977-78 be and is hereby unanimously approved by roll call vote.

By: _____

M. L. Williams
M. Leon Williams, Vice-Chairman
Metropolitan Sewerage District
Board of Buncombe County

Attest: _____

W. H. Mull
W. H. Mull
Engineer-Manager



STATE OF NORTH CAROLINA
DEPARTMENT OF THE TREASURER
RETIREMENT AND HEALTH BENEFITS DIVISION
ALBEMARLE BUILDING
RALEIGH 27611

HARLAN E. BOYLES
STATE TREASURER

W. H. HAMBLETON
DIRECTOR

March 17, 1978

RECEIVED

MAR 22 1978

MS. MARY M. MORRIS 91108
BOOKKEEPER
METROPOLITAN SEWERAGE DISTRICT
BUNCOMBE COUNTY
ASHEVILLE, N. C. 28807

Metropolitan Sewerage District
of Buncombe County

At its meeting on January 27, 1978, the Board of Trustees of the Local Governmental Employees' Retirement System granted a 4% cost-of-living increase, effective July 1, 1978, to retirees and beneficiaries who were on the retirement rolls as of July 1, 1977. This action, which was taken by the Board pursuant to statutory authority, will not influence the employer rate of contribution as stated later in this memorandum nor will it change the employee rate.

The Board is recommending other changes which are identical to the changes made in the Teachers' and State Employees' Retirement System by the 1977 Session of the General Assembly. These proposed changes in the Local System will, of course, require action by the General Assembly. The following paragraphs explain the proposed changes:

1. Increase the benefit formula from 1.50% of four year average final compensation times years of service to 1.55% of four year average final compenstion times years of service;
2. Provide a 7% adjusting increase effective July 1, 1978 (or July 1, 1979) to pre-July 1, 1976 retirees and beneficiaries and an additional 2 1/2% cost-of-living increase effective July 1, 1978 (or July 1, 1979) to retirees and beneficiaries on the rolls as of July 1, 1977; and
3. Increase the death benefit provision, for those covered by this optional provision, as follows:
 - (a) to provide a maximum payment of \$20,000 (present maximum \$15,000);
 - (b) to extend the 90 day coverage period following disability retirement to 366 days; and
 - (c) to extend the coverage period for active employees beyond the day on which age 65 is attained to the end of the fiscal year in which age 65 is attained.

The changes in the benefit formula and the post-retirement increases will have an increasing effect on the employer rate of retirement contribution of all participating local units; however, the changes to the death benefit provision will have an increasing effect only on the death benefit rate of contribution and will, therefore, be applicable only to those participating local units that have adopted this optional provision.

The Board of Trustees recommends that these changes be made as soon as possible because of (1) the need to keep the Local Retirement System competitive in view of complete transferability between the State and Local Retirement Systems and (2) the need to attract qualified employees into governmental work at the local level. However, since the proposed changes would require increased retirement contributions from the employing local units, the Board of Trustees needs to be informed of your governing Board's support of or opposition to the proposed changes.

Projected costs of the proposed changes have been determined by our Actuary and the Board of Trustees has approved submission of these changes to the General Assembly in the 1978 or the 1979 Session provided such action will be endorsed by a majority of our participating local units.

Our Actuary has calculated the employer rate of contribution required from your unit, provided the proposed changes are made effective July 1, 1978. (Presumably, the cost will change somewhat if the changes are made effective July 1, 1979.) Please observe that the results of his calculations show what your unit's rate of employer contribution will be, effective July 1, 1978, if the changes are made and if they are not made.

EMPLOYER RATES TO BE EFFECTIVE JULY 1, 1978

IF CHANGES ARE NOT MADE

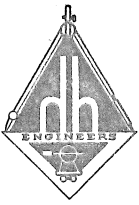
IF CHANGES ARE MADE

7.44 %

7.80 %

Please ask your governing Board to consider this matter at its next meeting. Those local units that are members of the League of Municipalities or the Association of County Commissioners have recently received information about this subject and should communicate the decision of their governing Boards to the League of Municipalities or the Association of County Commissioners as previously instructed by those organizations.

Those local units that are not members of either the League or the Association should advise the Retirement System by April 17 of your governing Board's support of or opposition to the proposed changes. Also, if it is your Board's decision to support the proposed changes, please indicate the desired effective date (i.e. July 1, 1978 or July 1, 1979).



Harry Hendon and Associates

INCORPORATED
ENGINEERS

Phone 871-3597

Address reply to P. O. Box 7404-A

10 OFFICE PARK, MOUNTAIN BROOK • BIRMINGHAM, ALABAMA 35223

HARRY H. HENDON (1904-1973)
L. E. HOFFMANN
A. B. JOWERS
P. L. BENTLEY
L. R. ROBINSON, JR.
W. L. SAMUEL

April 14, 1978

M. G. BUCKLEY,
D. H. HAUSWIRT
S. W. NELSON
J. C. PRUETT
G. S. RAJAN

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 Board 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";

We have found on our visits to, and on inspections of, the Sewerage System, that the properties are being properly maintained and operated.

The sludge digesters continue to present operating problems. The primary digester is virtually inactive or "stuck;" however, the secondary digester continues to function providing gas for digester heating and producing a satisfactorily stable sludge. The low pH in

the primary digester, probably due to acid discharges from one or more unknown industries, is the apparent principal interference with digester operation. Continuing industrial discharges of heavy metals and other toxic chemicals also interfere with digester operation and may create problems with ultimate sludge disposal in the future. Five actions are recommended to overcome this problem.

1. The pH in the primary digester should be raised to above 7.0 and maintained at that level. The pH is now being raised by massive doses of lime and waste sludge from an acetylene plant. To maintain satisfactory digester operation in the future, digester pH, alkalinity and off-gas composition should be monitored daily and appropriate remedial actions taken when needed.
2. Revisions to the Sewer Use Ordinance, approved by the Board at their regular meeting on March 14, 1978, should be implemented and rigidly enforced.
3. To adequately carryout the industrial wastes monitoring and surveillance program, an additional monitoring crew should be employed during the coming year. The cost of adding an additional monitoring crew is estimated to be -

Monitoring Van	\$ 5,100
Equipment	2,500
Operating Expense	1,500 per year
Salaries	15,800 per year

4. Additional waste monitoring capability should be provided by installing continuous monitoring equipment at strategic points throughout the system. To this end it is recommended that preliminary design at a cost of approximately \$2,500 be authorized in order to develop information necessary to prepare a grant application for possible Federal funding. Depending on the number of monitoring stations established, the cost could range from \$50,000 to \$200,000, of which seventy-five percent could be eligible for Federal funding.
5. Plans are under way to expand the laboratory at the Metropolitan Sewage Treatment Plant. This expansion is needed to meet anticipated increases in work load due to implementation of the revisions to the Sewer Use Ordinance. This expansion will require additional laboratory equipment and possibly additional laboratory staff.

The units, in the Metropolitan Sewage Treatment Plant most critical to effective treatment, are the aeration basins and the final clarifiers. To better control the performance of these units, it is recommended that suspended solids meters be installed in these units. These meters are now accepted as standard operating controls. The cost of these units, also eligible for federal funding, would be approximately \$35,000. Scum collectors at an approximate cost of \$25,000 should be added to the final clarifiers to prevent odor problems and scum carry over into the plant effluent. Such collectors were not normally installed on final clarifiers when this plant was built but are now found to be helpful if not absolutely required.

During the past year, pretreatment equipment was installed at the industry which discharges into the Weaverville Sewage Treatment Plant; however, the Weaverville Plant is still organically overloaded. It is recommended that immediate steps be taken toward enlargement of the Plant and that a study be made of interim steps to be taken to increase the capacity of the existing facilities.

The Crescent Hills Sewage Treatment Plant, as previously reported, does not operate effectively after rains because of excessive infiltration/inflow. The Plant, however, will be taken out of service when a new interceptor line is completed in this area. This interceptor, which is now under design, should be completed late in 1980.

The total capital cost of the foregoing recommendations (exclusive of the continuous monitoring equipment) is estimated to be approximately \$67,600, plus an increase of approximately \$17,300 in the annual operating cost. The cost of installing the recommended additional continuous

monitoring equipment could vary between \$50,000 and \$200,000 and cannot be determined until more detailed and extensive studies are developed.

"(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";

During the past year, a new administrative and office building was completed at the site of the Metropolitan Sewage Treatment Plant. This facility has relieved the congestion at the Metropolitan Sewage Treatment Plant Office and has made space available for the laboratory expansion recommended earlier in this report.

Lubricating oil, kerosene, diesel fuel and cleaners are still being stored in the Blower Building. To eliminate this potential hazardous condition and to comply with current OSHA regulations, a storage building is currently under design and is to be constructed this spring at the main plant.

A sampling pump and ancillary equipment was installed in 1977 at the main plant to permit the sampling of incoming sewage before it is mixed with return sludge. The new pump failed and was returned to the supplier where it was lost. A replacement pump should be received shortly.

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systems on the basis of the work required on each respective system.

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"(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".

The properties of the Sewerage System have been maintained in good repair and sound operating condition, and we have no specific recommendations of any consequence that may be required to place the System in such condition. In order to insure continued satisfactory performance as the equipment gets older and as waste flows increase, it is recommended that operation and maintenance manuals be prepared for the system. Such manuals are now required for plants partially funded with federal funds and it might be possible to obtain federal assistance in preparing manuals for the existing system. It is estimated that preparation of detailed operation and maintenance manuals for the existing system would cost \$25,000 to \$35,000.

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We would like to express our 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.

Very truly yours,

HARRY HENDON AND ASSOCIATES, INC.

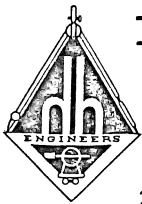
By



L. E. Hoffmann, President

LEH:p

cc: Local Government Commission
Trustee



Harry Hendon and Associates

INCORPORATED

ENGINEERS

Phone 704 - 274-7711

Address reply to P. O. Box 5176

25 REED STREET • ASHEVILLE, NORTH CAROLINA 28803

HARRY H. HENDON (1904-1973)

L. E. HOFFMANN

A. B. JOWERS

H. D. HUBER

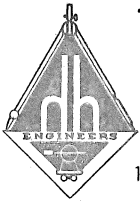
April 18, 1978

We have considered the proposed amendments to the 1977-78 Budget increasing the Budget amount for "Office Supplies" from \$4,000 to \$5,000; increasing the item "Postage & Petty Cash" from \$750 to \$1,200; increasing the item "Maintenance Supplies" from \$2,200 to \$3,000; and increasing the item "Water" from \$4,000 to \$5,250 and find the proposed increases necessary to meet the operating requirements of the Metropolitan Sewerage District of Buncombe County.

In accordance with Section 506 of the BOND RESOLUTION, we recommend and approve these proposed amendments to the Annual Budget.

H. Dean Huber

HARRY HENDON & ASSOCIATES, INC.
April 18, 1978



Harry Hendon and Associates

INCORPORATED
ENGINEERS

Phone 871-3597

Address reply to P. O. Box 7404-A

10 OFFICE PARK, MOUNTAIN BROOK • BIRMINGHAM, ALABAMA 35223

HARRY H. HENDON (1904-1973)
L. E. HOFFMANN
A. B. JOWERS
P. L. BENTLEY
L. R. ROBINSON, JR.
W. L. SAMUEL

April 14, 1978

M. G. BUCKLEY, JR.
D. H. HAUSWIRTH
S. W. NELSON
J. C. PRUETT
G. S. RAJAN

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 Board 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";

We have found on our visits to, and on inspections of, the Sewerage System, that the properties are being properly maintained and operated.

The sludge digesters continue to present operating problems. The primary digester is virtually inactive or "stuck;" however, the secondary digester continues to function providing gas for digester heating and producing a satisfactorily stable sludge. The low pH in

the primary digester, probably due to acid discharges from one or more unknown industries, is the apparent principal interference with digester operation. Continuing industrial discharges of heavy metals and other toxic chemicals also interfere with digester operation and may create problems with ultimate sludge disposal in the future. Five actions are recommended to overcome this problem.

1. The pH in the primary digester should be raised to above 7.0 and maintained at that level. The pH is now being raised by massive doses of lime and waste sludge from an acetylene plant. To maintain satisfactory digester operation in the future, digester pH, alkalinity and off-gas composition should be monitored daily and appropriate remedial actions taken when needed.
2. Revisions to the Sewer Use Ordinance, approved by the Board at their regular meeting on March 14, 1978, should be implemented and rigidly enforced.
3. To adequately carryout the industrial wastes monitoring and surveillance program, an additional monitoring crew should be employed during the coming year. The cost of adding an additional monitoring crew is estimated to be -

Monitoring Van	\$ 5,100
Equipment	2,500
Operating Expense	1,500 per year
Salaries	15,800 per year

4. Additional waste monitoring capability should be provided by installing continuous monitoring equipment at strategic points throughout the system. To this end it is recommended that preliminary design at a cost of approximately \$2,500 be authorized in order to develop information necessary to prepare a grant application for possible Federal funding. Depending on the number of monitoring stations established, the cost could range from \$50,000 to \$200,000, of which seventy-five percent could be eligible for Federal funding.
5. Plans are under way to expand the laboratory at the Metropolitan Sewage Treatment Plant. This expansion is needed to meet anticipated increases in work load due to implementation of the revisions to the Sewer Use Ordinance. This expansion will require additional laboratory equipment and possibly additional laboratory staff.

The units, in the Metropolitan Sewage Treatment Plant most critical to effective treatment, are the aeration basins and the final clarifiers. To better control the performance of these units, it is recommended that suspended solids meters be installed in these units. These meters are now accepted as standard operating controls. The cost of these units, also eligible for federal funding, would be approximately \$35,000. Scum collectors at an approximate cost of \$25,000 should be added to the final clarifiers to prevent odor problems and scum carry over into the plant effluent. Such collectors were not normally installed on final clarifiers when this plant was built but are now found to be helpful if not absolutely required.

During the past year, pretreatment equipment was installed at the industry which discharges into the Weaverville Sewage Treatment Plant; however, the Weaverville Plant is still organically overloaded. It is recommended that immediate steps be taken toward enlargement of the Plant and that a study be made of interim steps to be taken to increase the capacity of the existing facilities.

The Crescent Hills Sewage Treatment Plant, as previously reported, does not operate effectively after rains because of excessive infiltration/inflow. The Plant, however, will be taken out of service when a new interceptor line is completed in this area. This interceptor, which is now under design, should be completed late in 1980.

The total capital cost of the foregoing recommendations (exclusive of the continuous monitoring equipment) is estimated to be approximately \$67,600, plus an increase of approximately \$17,300 in the annual operating cost. The cost of installing the recommended additional continuous

monitoring equipment could vary between \$50,000 and \$200,000 and cannot be determined until more detailed and extensive studies are developed.

"(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";

During the past year, a new administrative and office building was completed at the site of the Metropolitan Sewage Treatment Plant. This facility has relieved the congestion at the Metropolitan Sewage Treatment Plant Office and has made space available for the laboratory expansion recommended earlier in this report.

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HARRY HENDON AND ASSOCIATES, INC.

By



L. E. Hoffmann, President

LEH:p

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 704-255-5383

Anthony Redmond, General Counsel



C. LeRoy Robinson, Asheville
Chairman
M. Leon Williams, Buncombe Co.
Vice-Chairman
George E. Dawson, Asheville
Paul W. Warlick, Biltmore Forest
Ben Clark, Weaverville
D. Frank Hyatt, Asheville
Larry S. McDevitt, Buncombe Co.
Frank S. Smith III, Buncombe Co.
P. P. Dillingham, Woodfin
Paul E. Griffith, Black Mountain

April 18, 1978

I, Ben H. Clark, 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 18, 1978.

WITNESS my hand and seal of said District this 25 day of April, 1978.

Signed by Ben H. Clark

Secretary to the Board
Metropolitan Sewerage District
of Buncombe County

RESOLUTION
OF THE
METROPOLITAN SEWERAGE DISTRICT BOARD

BE IT RESOLVED BY the District Board of the Metropolitan Sewerage District of Buncombe County, North Carolina:

WHEREAS, George E. Dawson, a charter member of this Board, having been appointed thereto by the City of Asheville on July 26, 1962, because of ill health found it necessary to resign his position as an officer and member of this Board on the 31st day of January, 1978; and

WHEREAS, this Board desires to record its sentiments with respect to Mr. Dawson as a man and as a member of this Board.

NOW, THEREFORE, BE IT RESOLVED that the Board of the Metropolitan Sewerage District of Buncombe County, North Carolina, does hereby express its great sympathy to the members of Mr. Dawson's family for having suffered such a loss in which this Board shares; and

BE IT FURTHER RESOLVED that this Board does hereby express its sincere appreciation for the many years of faithful and devoted service contributed to the District by Mr. Dawson while he served as Vice-Chairman, Treasurer, and Secretary during the years and, most importantly, as Chairman of the Budget Committee.

His contributions to the discussions of the Board over these sixteen years of his tenure of office have been of substantial value to the Board and to its members. The Board has been the beneficiary of his wise counsel, his insight, and his readiness to be of assistance in any way that he could throughout the years.

This Board will be ever grateful and will cherish the memory of Mr. Dawson.

Adopted this the 18th day of April, 1978.